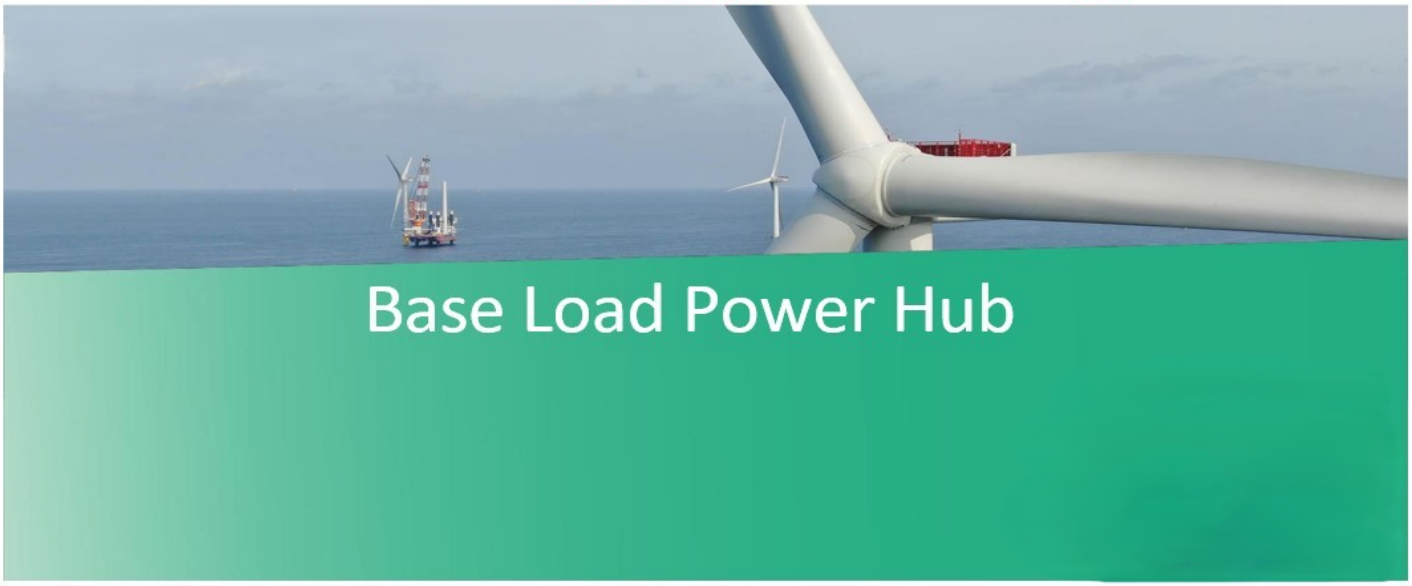
CROSSWIND

ROSETTI MARINO

PROVERLIS

PROJECT **123A90 - HOLLANDSE KUST NOORD WIND PARK**
BLPH Project



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	87 Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20 Process Control System (PCS) - Instrumentation

CROSSWIND	123A90 - HOLLANDSE KUST NOORD WIND PARK BLPH Project MECHANICAL COMPLETION DOSSIER INDEX	ROSETTI MARINO

Sub System N°:	87-20	Tick as appropriate	ONSHORE	O
Description:	Process Control System (PCS) - Instrumentation		OFFSHORE	NA

1.	***READY FOR COMMISSIONING CERTIFICATE*** *Ready For Commissioning Certificate (RFC)*	O
2.	***CONSOLIDATED PUNCH LISTS*** *Cleared and Residual Items*	O
3.	***SYSTEM/SUB-SYSTEM LIMIT DRAWINGS*** *Mark-up drawings showing the limits of the relevant System/Sub-System*	NA
4.	***MECHANICAL COMPLETION STATUS INDEX – BUILDING DISCIPLINE*** *Building Sub-System Status Index (Print out) and Check/Test sheets*	NA
5.	***MECHANICAL COMPLETION STATUS INDEX – ELECTRICAL DISCIPLINE*** *Electrical Sub-System Status Index (Print out) and Check/Test Sheets* *Hazardous Area Equipment Detailed Inspection*	NA
6.	***MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE*** *Instrumental Sub-System Status Index (Print out) and Check/Test Sheets*	O
7.	***MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE*** *Mechanical SubSystem Status Index (Print out) and Check/Test Sheets*	NA
8.	***MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE*** *Telecommunication Sub-System Status Index (Print out) and Check/Test Sheets*	NA
9.	***MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE*** *HVAC Sub-System Status Index (Print out) and Check/Test Sheets*	NA
10.	***MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE*** *Piping Sub-System Status Index and Check/Test Sheets*	NA
11.	***MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE*** *Safety Sub-System Status Index (Print out) and Check/Test Sheets*	NA
12.	***FAT / VENDOR REPORTS*** *Fat reports issued by vendors and/or vendor reports*	NA
13.	***MECHANICAL COMPLETION CHANGES / MARK-UPS*** *A copy of the changes initiated during the Mechanical Completion process pertaining to the relevant Sub-System will be incorporated in this section*	NA

Note: Under the generic terminology “Building” are also covered the following disciplines: **Structural, Painting**

Under the generic terminology “Instrumental” is also covered the following discipline: **Fire & Gas**

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123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	1		Issued on:	2024-12-12	
System:	87	/	Instrumentation Systems incl. general control room equipment		
SubSystem:	87-20	/	Process Control System (PCS) - Instrumentation		

1	COMPANY has, at its option and if required, reviewed the mechanical completion associated with the above-named system/sub-system of the SCOPE and observed that such functional sub-system has been brought into readiness for commencement of the associated pre-commissioning and commissioning activities, but for the outstanding punch list items, if any, attached and referred in this Certificate.
2	Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.
3	Mechanical Completion Status Index attached (per Discipline) Punch List report attached (Outstanding and Cleared)

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A	B
	'0	41

REMARKS:

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Kristian Castellani	CPY NOT PRESENT	CPY NOT PRESENT
Date	2024-12-13	2024-12-13	2024-12-13	2024-12-13
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2024-12-13T09:38:37.095Z	PROVERLIS Digitaly signed by Kristian Castellani 2024-12-13T09:58:33.967Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2024-12-13T12:03:47.638Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2024-12-13T12:03:59.572Z

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 87-20 & process: MC

Instrumental	87-20 Process Control System (PCS) - Instrumentation

ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
B100-TDC-001	Proximity Switch (B-100)	ONSHORE	C10002328	CJX00	100	2024-12-12	RFC 1
B100-TDC-002	Proximity Switch (B-100)	ONSHORE	C10002329	CJX00	100	2024-12-12	RFC 1
B100-TIR-001	Motion Detector (B-100)	ONSHORE	C10002330	CJX00	100	2024-12-12	RFC 1
B200-TDC-001	Proximity Switch (B-200)	ONSHORE	C10002331	CJX00	100	2024-12-11	RFC 1
B200-TDC-002	Proximity Switch (B-200)	ONSHORE	C10002332	CJX00	100	2024-12-11	RFC 1
B200-TIR-001	Motion Detector (B-200)	ONSHORE	C10002333	CJX00	100	2024-12-11	RFC 1
B300-TDC-001	Proximity Switch (B-300)	ONSHORE	C10002334	CJX00	100	2024-12-10	RFC 1
B300-TDC-002	Proximity Switch (B-300)	ONSHORE	C10002335	CJX00	100	2024-12-10	RFC 1
B300-TIR-001	Motion Detector (B-300)	ONSHORE	C10002336	CJX00	100	2024-12-10	RFC 1
B400-TDC-001	Proximity Switch (B-400)	ONSHORE	C10002337	CJX00	100	2024-12-10	RFC 1
B400-TDC-002	Proximity Switch (B-400)	ONSHORE	C10002338	CJX00	100	2024-12-10	RFC 1
B400-TIR-001	Motion Detector (B-400)	ONSHORE	C10002339	CJX00	100	2024-12-10	RFC 1
C-B100-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002308	CJX10	100	2024-12-12	RFC 1
C-B100-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002309	CJX10	100	2024-12-12	RFC 1
C-B100-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002310	CJX10	100	2024-12-12	RFC 1
C-B200-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002311	CJX10	100	2024-12-11	RFC 1
C-B200-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002312	CJX10	100	2024-12-11	RFC 1
C-B200-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002313	CJX10	100	2024-12-11	RFC 1
C-B300-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002314	CJX10	100	2024-12-10	RFC 1
C-B300-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002315	CJX10	100	2024-12-10	RFC 1
C-B300-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002316	CJX10	100	2024-12-10	RFC 1
C-B400-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002317	CJX10	100	2024-12-10	RFC 1
C-B400-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002318	CJX10	100	2024-12-10	RFC 1
C-B400-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002319	CJX10	100	2024-12-10	RFC 1

CROSSWIND

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001597	B	B300-TDC-001 C10002334	Identification tag is missing	.		Lmussi 2024-12-10			
C30001598	B	B300-TDC-002 C10002335	Identification tag is missing	.		Lmussi 2024-12-10			
C30001599	B	B400-TDC-001 C10002337	Identification tag is missing	.		Lmussi 2024-12-10			
C30001600	B	B400-TDC-002 C10002338	Identification tag is missing	.		Lmussi 2024-12-10			
C30001601	B	B300-TIR-001 C10002336	Identification tag is missing	.		Lmussi 2024-12-10			
C30001602	B	B400-TIR-001 C10002339	Identification tag is missing	.		Lmussi 2024-12-10			
C30001603	B	C-B300-TDC-001/B400-PCS-002	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-10			
C30001604	B	C-B300-TDC-002/B400-PCS-002	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-10			
C30001605	B	C-B300-TDC-002/B400-PCS-002	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 87 Instrumentation Systems incl. general control room equipment

SUBSYSTEM 87-20 Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001606	B	C-B300-TIR-001 /B400-PCS-002 C10002316	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			
C30001607	B	C-B300-TIR-001 /B400-PCS-002 C10002316	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-10			
C30001608	B	C-B400-TDC-00 1/B400-PCS-00 2	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003).	.		Lmussi 2024-12-10			
C30001609	B	C-B400-TDC-00 1/B400-PCS-00 2	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			
C30001610	B	C-B400-TDC-00 2/B400-PCS-00 2	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			
C30001611	B	C-B400-TDC-00 2/B400-PCS-00 2	Panduit is missing inside the panel	.		Lmussi 2024-12-10			
C30001612	B	C-B400-TIR-001 /B400-PCS-002 C10002319	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			
C30001613	B	C-B400-TIR-001 /B400-PCS-002 C10002319	Panduit is missing inside the panel B400-PCS-002.	.		Lmussi 2024-12-10			
C30001665	B	C-B200-TDC-00 1/B400-PCS-00 2	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-11			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001666	B	C-B200-TDC-002/B400-PCS-002	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-11			
C30001667	B	C-B200-TIR-001/B400-PCS-002 C10002313	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-11			
C30001668	B	B200-TDC-001 C10002331	Identification tag is missing	.		Lmussi 2024-12-11			
C30001697	B	B200-TDC-002 C10002332	Identification tag is missing	.		Lmussi 2024-12-11			
C30001699	B	B200-TIR-001 C10002333	Identification tag is missing	.		Lmussi 2024-12-11			
C30001721	B	C-B100-TDC-001/B400-PCS-002	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-12			
C30001722	B	C-B100-TDC-001/B400-PCS-002	On instrument side, core labelling is not as per Cable identification (C-B100-TDC-001/B-400-PCS-022 instead of	.		Lmussi 2024-12-12			
C30001723	B	C-B100-TDC-002/B400-PCS-002	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-12			
C30001724	B	C-B100-TIR-001/B400-PCS-002 C10002310	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-12			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001728	B	B100-TDC-001 C10002328	Identification tag is missing	.		Lmussi 2024-12-12			
C30001730	B	B100-TDC-002 C10002329	Identification tag is missing.	.		Lmussi 2024-12-12			
C30001732	B	B100-TIR-001 C10002330	Identification tag is missing.	.		Lmussi 2024-12-12			
C30001790	B	C-B400-TDC-001/B400-PCS-002	Panduits are missing on both inside and outside of the panel.	.		Lmussi 2024-12-13			
C30001791	B	C-B400-TIR-001/B400-PCS-002 C10002319	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-13			
C30001798	B	B100-TDC-001 C10002328	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			
C30001799	B	B100-TDC-002 C10002329	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			
C30001800	B	B200-TDC-001 C10002331	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			
C30001801	B	B200-TDC-002 C10002332	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001802	B	B300-TDC-001 C10002334	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			
C30001803	B	B300-TDC-002 C10002335	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			
C30001804	B	B400-TDC-001 C10002337	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			
C30001805	B	B400-TDC-002 C10002338	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.			Lmussi 2024-12-13			
C30001806	B	B300-TDC-001 C10002334	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13			

Section 2 CONSOLIDATED PUNCH LISTS

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001597	B	B300-TDC-001 C10002334	Identification tag is missing	.		Lmussi 2024-12-10	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30001598	B	B300-TDC-002 C10002335	Identification tag is missing	.		Lmussi 2024-12-10	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30001599	B	B400-TDC-001 C10002337	Identification tag is missing	.		Lmussi 2024-12-10	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30001600	B	B400-TDC-002 C10002338	Identification tag is missing	.		Lmussi 2024-12-10	2025-02-03	Gtangianu 2025-02-03	2025-02-03
C30001601	B	B300-TIR-001 C10002336	Identification tag is missing	.		Lmussi 2024-12-10	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001602	B	B400-TIR-001 C10002339	Identification tag is missing	.		Lmussi 2024-12-10	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001603	B	C-B300-TDC-001/B400-PCS-002	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-10			
C30001604	B	C-B300-TDC-002/B400-PCS-002	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-10			
C30001605	B	C-B300-TDC-002/B400-PCS-002	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10	2025-01-31	Gtangianu 2025-01-31	2025-01-31

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 87 Instrumentation Systems incl. general control room equipment

SUBSYSTEM 87-20 Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001606	B	C-B300-TIR-001 /B400-PCS-002 C10002316	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10	2025-02-27	JKrizanic 2025-02-27	2025-02-27
C30001607	B	C-B300-TIR-001 /B400-PCS-002 C10002316	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-10			
C30001608	B	C-B400-TDC-00 1/B400-PCS-00 2	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003).	.		Lmussi 2024-12-10			
C30001609	B	C-B400-TDC-00 1/B400-PCS-00 2	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			
C30001610	B	C-B400-TDC-00 2/B400-PCS-00 2	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			
C30001611	B	C-B400-TDC-00 2/B400-PCS-00 2	Panduit is missing inside the panel	.		Lmussi 2024-12-10	2025-02-03	Gtangianu 2025-02-03	2025-02-03
C30001612	B	C-B400-TIR-001 /B400-PCS-002 C10002319	Missing segregation between Intrinsic Safe cables and instrumentation cables	.		Lmussi 2024-12-10			
C30001613	B	C-B400-TIR-001 /B400-PCS-002 C10002319	Panduit is missing inside the panel B400-PCS-002.	.		Lmussi 2024-12-10	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001665	B	C-B200-TDC-00 1/B400-PCS-00 2	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-11			

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PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001666	B	C-B200-TDC-002/B400-PCS-002	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-11			
C30001667	B	C-B200-TIR-001/B400-PCS-002 C10002313	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-11			
C30001668	B	B200-TDC-001 C10002331	Identification tag is missing	.		Lmussi 2024-12-11	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30001697	B	B200-TDC-002 C10002332	Identification tag is missing	.		Lmussi 2024-12-11	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30001699	B	B200-TIR-001 C10002333	Identification tag is missing	.		Lmussi 2024-12-11	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001721	B	C-B100-TDC-001/B400-PCS-002	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-12			
C30001722	B	C-B100-TDC-001/B400-PCS-002	On instrument side, core labelling is not as per Cable identification (C-B100-TDC-001/B-400-PCS-022 instead of	.		Lmussi 2024-12-12	2025-01-31	Gtangianu 2025-01-31	2025-01-31
C30001723	B	C-B100-TDC-002/B400-PCS-002	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-12			
C30001724	B	C-B100-TIR-001/B400-PCS-002 C10002310	On instrument side, core identification tags are missing for all wires. On panel side, core identification tags are not as per Cross-Ferruling	.		Lmussi 2024-12-12			

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PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001728	B	B100-TDC-001 C10002328	Identification tag is missing	.		Lmussi 2024-12-12	2025-01-31	Ecarotenuto 2025-01-31	2025-01-31
C30001730	B	B100-TDC-002 C10002329	Identification tag is missing.	.		Lmussi 2024-12-12	2025-02-03	GBertuccelli 2025-02-03	2025-02-03
C30001732	B	B100-TIR-001 C10002330	Identification tag is missing.	.		Lmussi 2024-12-12	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001790	B	C-B400-TDC-001/B400-PCS-002	Panduits are missing on both inside and outside of the panel.	.		Lmussi 2024-12-13	2025-02-03	Gtangianu 2025-02-03	2025-02-03
C30001791	B	C-B400-TIR-001 /B400-PCS-002 C10002319	On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)	.		Lmussi 2024-12-13			
C30001798	B	B100-TDC-001 C10002328	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-02-12	APolo 2025-02-12	2025-02-12
C30001799	B	B100-TDC-002 C10002329	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-03-04	JKrizanic 2025-03-04	2025-03-04
C30001800	B	B200-TDC-001 C10002331	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-02-12	APolo 2025-02-12	2025-02-12
C30001801	B	B200-TDC-002 C10002332	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-02-12	APolo 2025-02-12	2025-02-12

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	87	Instrumentation Systems incl. general control room equipment
SUBSYSTEM	87-20	Process Control System (PCS) - Instrumentation

Instrumental

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001802	B	B300-TDC-001 C10002334	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-02-12	APolo 2025-02-12	2025-02-12
C30001803	B	B300-TDC-002 C10002335	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-02-12	APolo 2025-02-12	2025-02-12
C30001804	B	B400-TDC-001 C10002337	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-02-12	APolo 2025-02-12	2025-02-12
C30001805	B	B400-TDC-002 C10002338	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.			Lmussi 2024-12-13	2025-02-12	APolo 2025-02-12	2025-02-12
C30001806	B	B300-TDC-001 C10002334	(Open during WD) Metallic cable of the magnetic contact to be properly fixed.	.		Lmussi 2024-12-13	2025-03-04	JKrizanic 2025-03-04	2025-03-04

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001603

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002314	1.4 Discipline	Instrumental
1.2 Item	C-B300-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:26:49.372Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:27:00.645Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

TB-00-JE-13003
TR-00-JE-BX00

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001604

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002315	1.4 Discipline	Instrumental
1.2 Item	C-B300-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:28:41.919Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:29:00.335Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature


2/B400-PCS-002/TB-00-JE-BX00/4
3/B400-PCS-002/TB-00-JE-BX00/6
1-/B400-PCS-002/TB-00-JE-BX00/8
2/B400-PCS-002/TB-00-JE-BX00/10
2/B400-PCS-002/TB-00-JE-BX00/12
3/B400-PCS-002/TB-00-JE-BX00/14
1-/B400-PCS-002/TB-00-JE-BX00/16
2/B400-PCS-002/TB-00-JE-BX00/18
2/B400-PCS-002/TB-00-JE-BX00/20
3/B400-PCS-002/TB-B400-PCS-002/22
1-/B400-PCS-002/TB-00-JE-BX00/24
2/B400-PCS-002/TB-00-JE-BX00/26
2/B400-PCS-002/TB-00-JE-BX00/28
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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001607

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002316	1.4 Discipline	Instrumental
1.2 Item	C-B300-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:38:19.527Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:38:35.582Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature


2/B400-PCS-002/TB-00-JE-BX00/4
3/B400-PCS-002/TB-00-JE-BX00/6
1-/B400-PCS-002/TB-00-JE-BX00/8
2/B400-PCS-002/TB-00-JE-BX00/10
2/B400-PCS-002/TB-00-JE-BX00/12
3/B400-PCS-002/TB-00-JE-BX00/14
1-/B400-PCS-002/TB-00-JE-BX00/16
2/B400-PCS-002/TB-00-JE-BX00/18
2/B400-PCS-002/TB-00-JE-BX00/20
3/B400-PCS-002/TB-B400-PCS-002/22
1-/B400-PCS-002/TB-00-JE-BX00/24
2/B400-PCS-002/TB-00-JE-BX00/26
2/B400-PCS-002/TB-00-JE-BX00/28
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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001608

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002317	1.4 Discipline	Instrumental
1.2 Item	C-B400-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003).

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:43:03.571Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:43:24.405Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature


2/B400-PCS-002/TB-00-JE-BX00/4
3/B400-PCS-002/TB-00-JE-BX00/6
1-/B400-PCS-002/TB-00-JE-BX00/8
2/B400-PCS-002/TB-00-JE-BX00/10
2/B400-PCS-002/TB-00-JE-BX00/12
3/B400-PCS-002/TB-00-JE-BX00/14
1-/B400-PCS-002/TB-00-JE-BX00/16
2/B400-PCS-002/TB-00-JE-BX00/18
2/B400-PCS-002/TB-00-JE-BX00/20
3/B400-PCS-002/TB-B400-PCS-002/22
1-/B400-PCS-002/TB-00-JE-BX00/24
2/B400-PCS-002/TB-00-JE-BX00/26
2/B400-PCS-002/TB-00-JE-BX00/28
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ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001609

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002317	1.4 Discipline	Instrumental
1.2 Item	C-B400-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Missing segregation between Intrinsic Safe cables and instrumentation cables

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:55:05.646Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:55:17.164Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

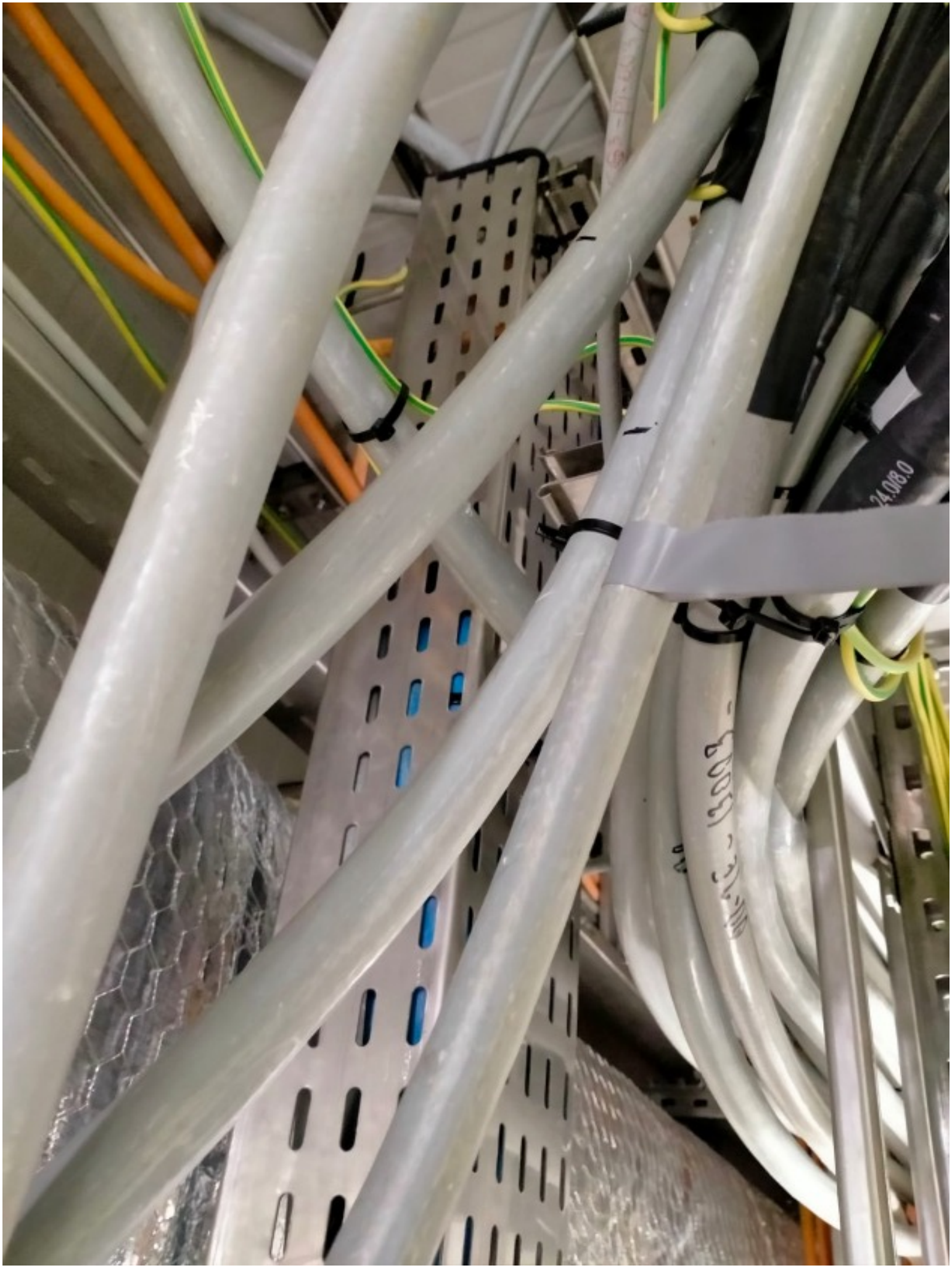
Signature

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001610

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002318	1.4 Discipline	Instrumental
1.2 Item	C-B400-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Missing segregation between Intrinsic Safe cables and instrumentation cables

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:57:60.772Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:58:02.812Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

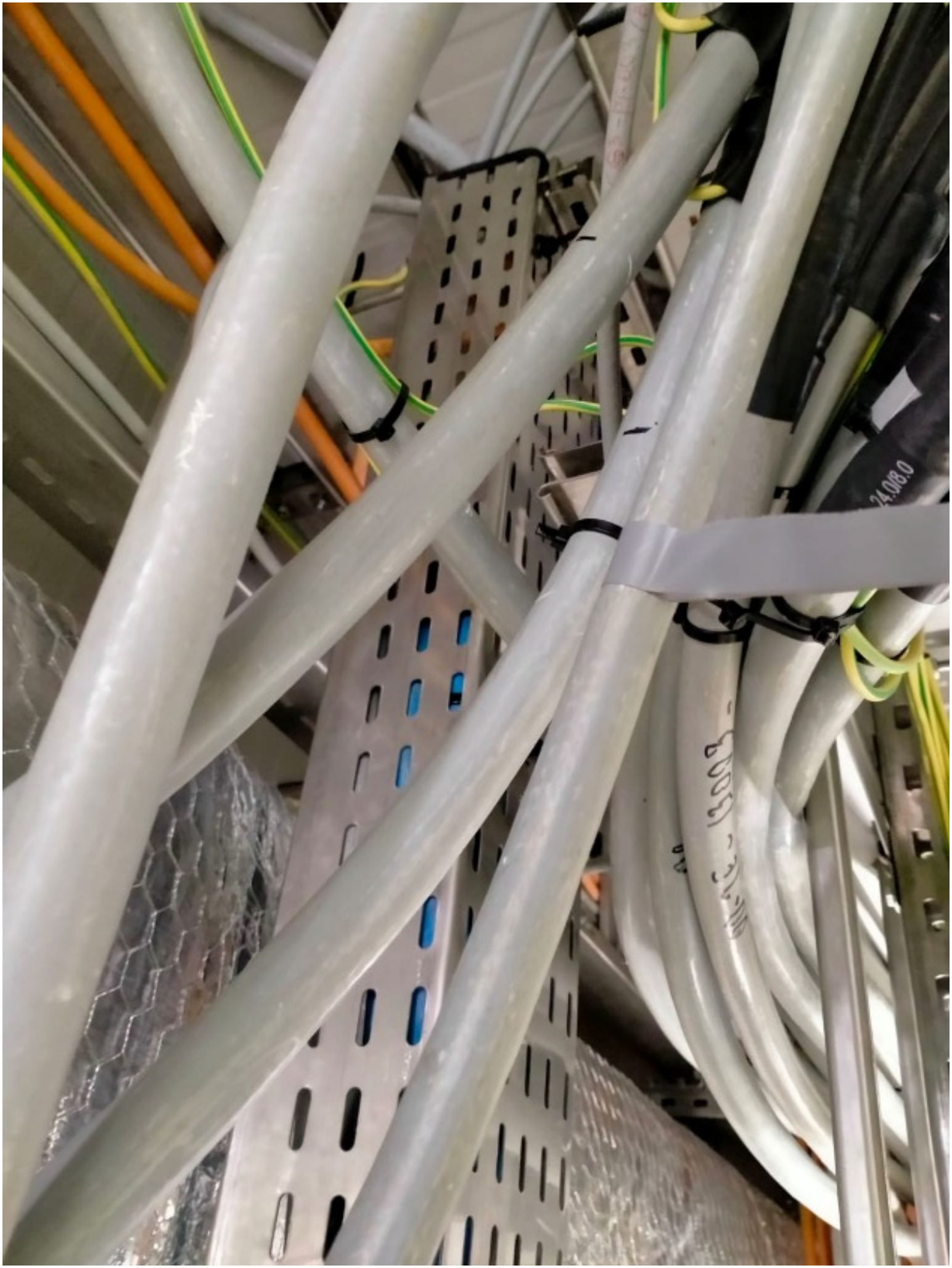
Signature

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001612

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002319	1.4 Discipline	Instrumental
1.2 Item	C-B400-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Missing segregation between Intrinsic Safe cables and instrumentation cables

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T16:00:49.488Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T16:01:00.553Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001665

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002311	1.4 Discipline	Instrumental
1.2 Item	C-B200-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On instrument side, core identification tags are missing for all wires.

On panel side, core identification tags are not as per Cross-Ferruling Philosophy (123A90-DDL-IN-DG-40015 rev. 01 sheet 003, item 6)

Name: Luca Mussi

Date: 2024-12-11

Signature: Digitaly signed by Luca Mussi 2024-12-11T15:52:20.132Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-11T15:52:31.407Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

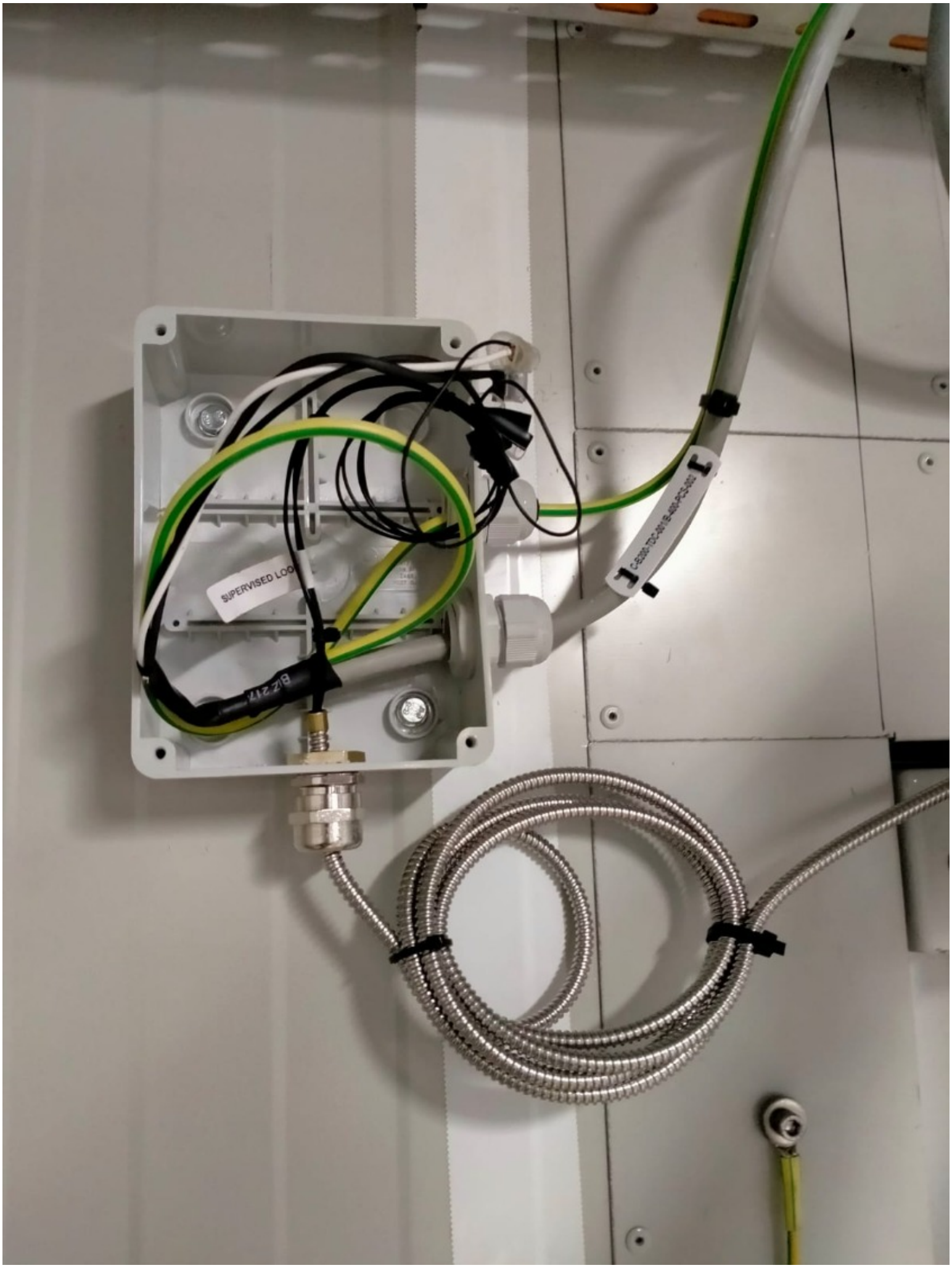
Signature

6- CLEARANCE APPROVAL

Name

Date

Signature


SUPERVISED LOO

1/B400-PCS-002/TB-00-JE-BX00/9
2/B400-PCS-002/TB-00-JE-BX00/10

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001666

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002312	1.4 Discipline	Instrumental
1.2 Item	C-B200-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On instrument side, core identification tags are missing for all wires.

On panel side, core identification tags are not as per Cross-Ferruling Philosophy (123A90-DDL-IN-DG-40015 rev. 01 sheet 003, item 6).

Name: Luca Mussi

Date: 2024-12-11

Signature: Digitaly signed by Luca Mussi 2024-12-11T15:55:52.575Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-11T15:56:05.825Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

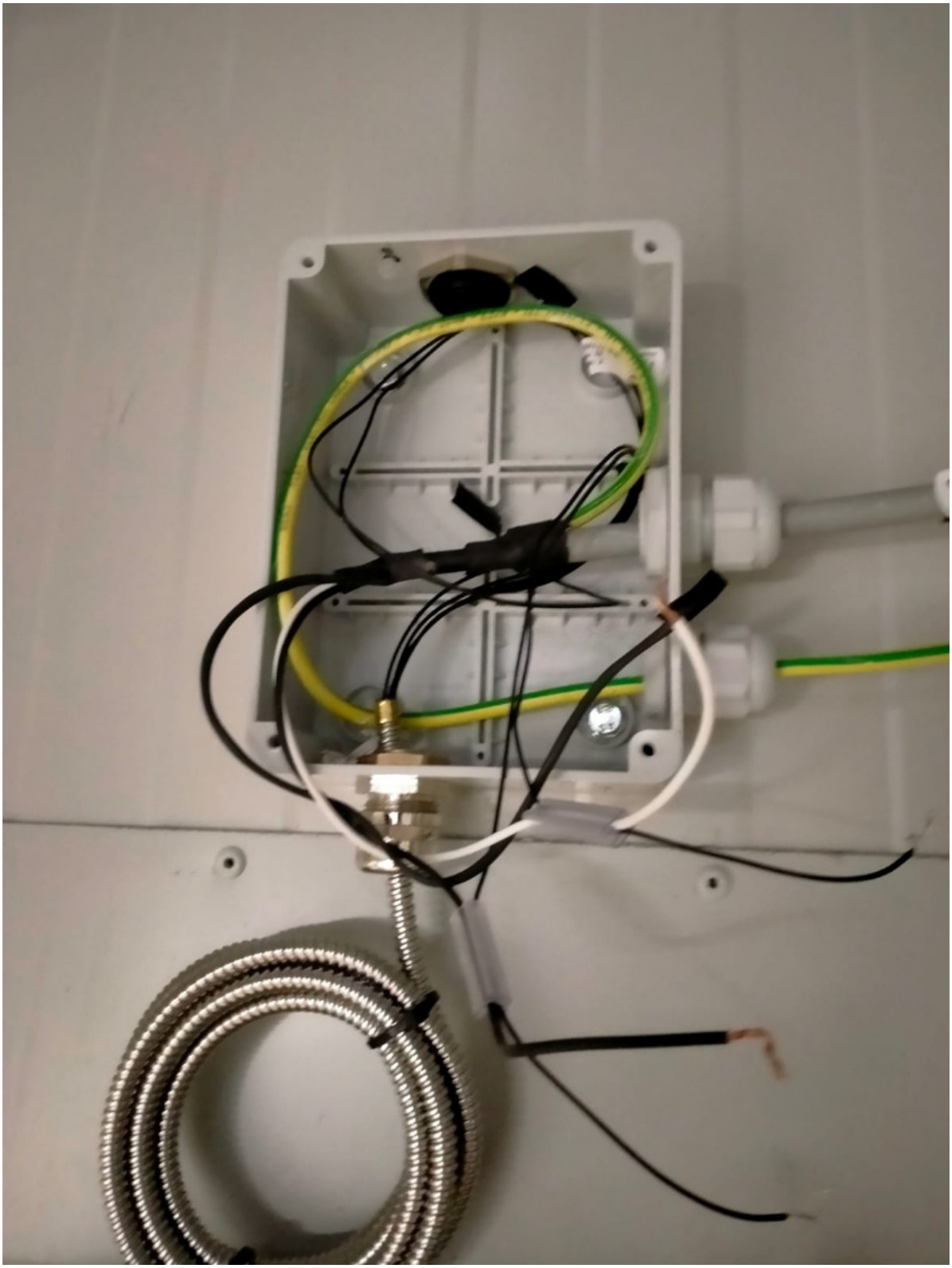
Signature

6- CLEARANCE APPROVAL

Name

Date

Signature




1/B400-PCS-002/TB-00-JE-BX00/11
2/B400-PCS-002/TB-00-JE-BX00/12
1/B400-PCS-002/TB-00-JE-BX00/25
2/B400-PCS-002/TB-00-JE-BX00/24

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001667

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002313	1.4 Discipline	Instrumental
1.2 Item	C-B200-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On instrument side, core identification tags are missing for all wires.

On panel side, core identification tags are not as per Cross-Ferruling Philosophy (123A90-DDL-IN-DG-40015 rev. 01 sheet 003, item 6).

Name: Luca Mussi

Date: 2024-12-11

Signature: Digitaly signed by Luca Mussi 2024-12-11T15:57:48.259Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-11T15:58:01.458Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

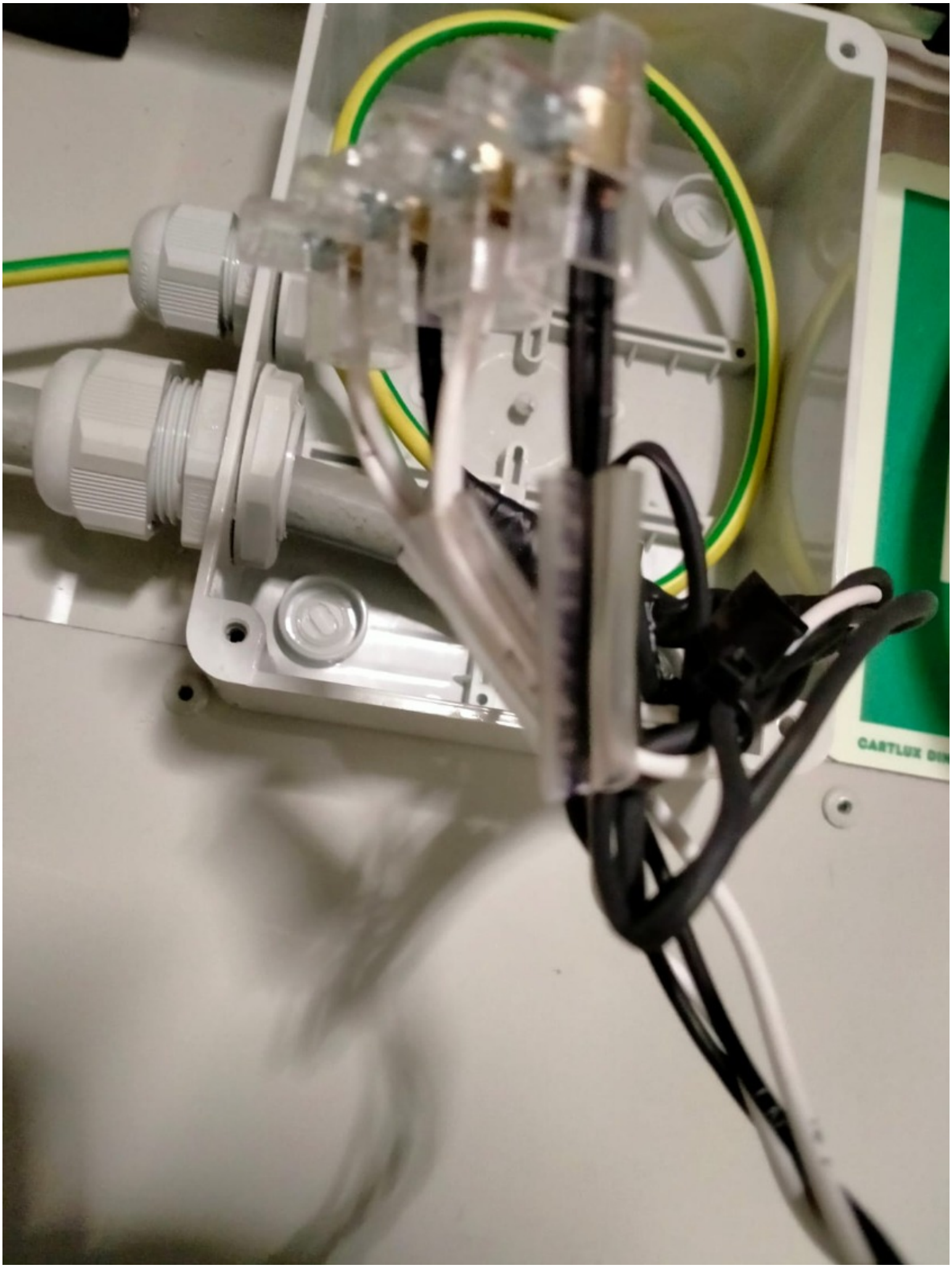
Signature

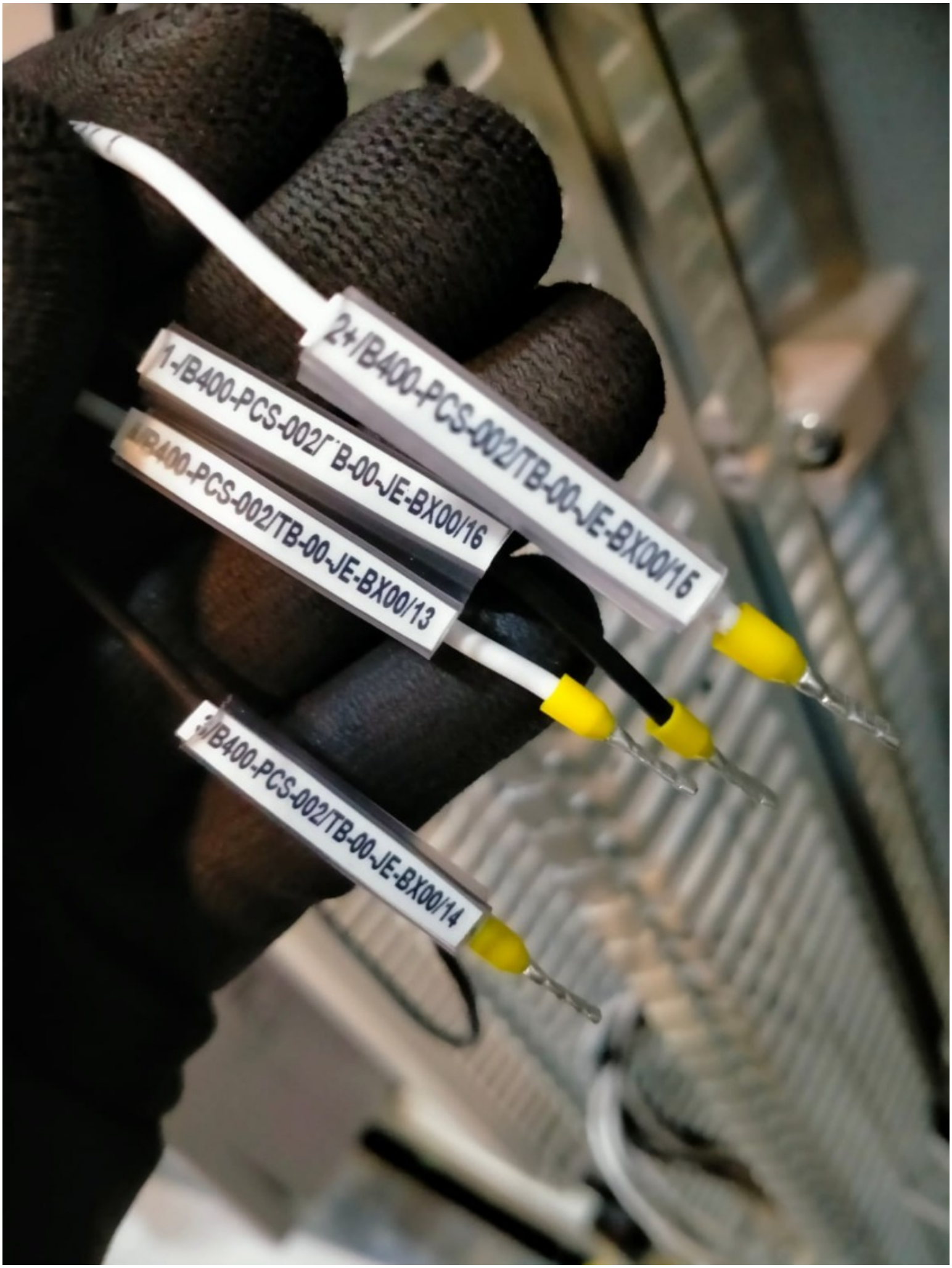
6- CLEARANCE APPROVAL

Name

Date

Signature




2+/B400-PCS-002/TB-00-JE-BX00/15
1-/B400-PCS-002/TB-00-JE-BX00/16
B400-PCS-002/TB-00-JE-BX00/13
3/B400-PCS-002/TB-00-JE-BX00/14

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001721

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002308	1.4 Discipline	Instrumental
1.2 Item	C-B100-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On instrument side, core identification tags are missing for all wires.

On panel side, core identification tags are not as per Cross-Ferruling Philosophy (123A90-DDL-IN-DG-40015 rev. 01 sheet 003, item 6).

Name: Luca Mussi

Date: 2024-12-12

Signature: Digitaly signed by Luca Mussi 2024-12-12T13:11:02.931Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-12T13:11:15.656Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

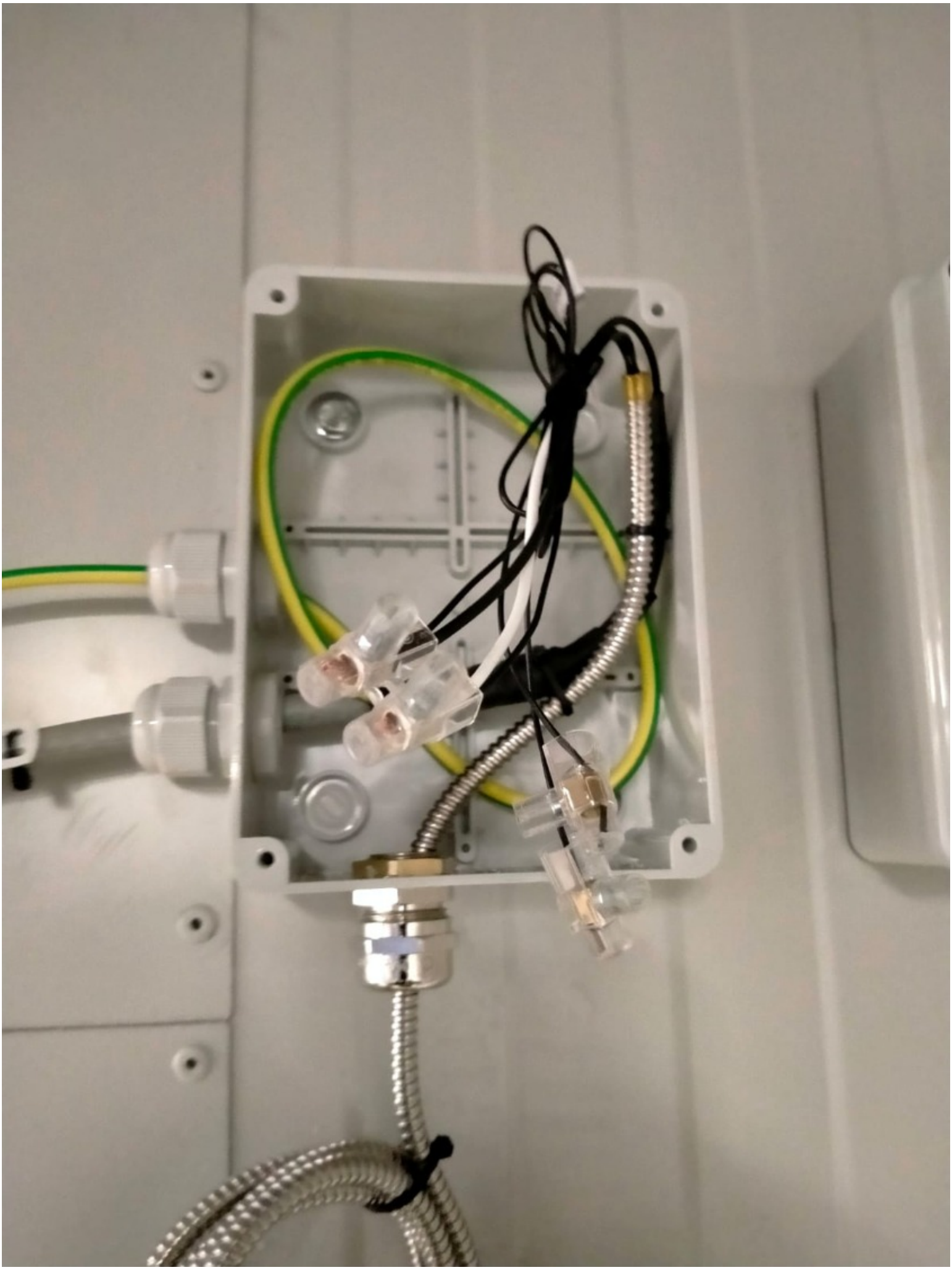
Signature

6- CLEARANCE APPROVAL

Name

Date

Signature




2/B400-PCS-002/TB-00-JE-BX00/10
2/B400-PCS-002/TB-00-JE-BX00/12
2/B400-PCS-002/TB-00-JE-BX00/14
2/B400-PCS-002/TB-00-JE-BX00/18
2/B400-PCS-002/TB-00-JE-BX00/20
3/B400-PCS-002/TB-B400-PCS-002/22
1/B400-PCS-002/TB-00-JE-BX00/26
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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001723

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002309	1.4 Discipline	Instrumental
1.2 Item	C-B100-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On instrument side, core identification tags are missing for all wires.

On panel side, core identification tags are not as per Cross-Ferruling Philosophy (123A90-DDL-IN-DG-40015 rev. 01 sheet 003, item 6).

Name: Luca Mussi

Date: 2024-12-12

Signature: Digitaly signed by Luca Mussi 2024-12-12T13:17:53.168Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-12T13:18:04.031Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature


C-B106-TDC-0018-400-PCS-M1


TB-00-JE-BX00
2/B400-PCS-002/TB-00-JE-BX00/2
2/B400-PCS-002/TB-00-JE-BX00/4
2/B400-PCS-002/TB-00-JE-BX00/10
2/B400-PCS-002/TB-00-JE-BX00/14
1/B400-PCS-002/TB-00-JE-BX00/26

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001724

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002310	1.4 Discipline	Instrumental
1.2 Item	C-B100-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On instrument side, core identification tags are missing for all wires.

On panel side, core identification tags are not as per Cross-Ferruling Philosophy (123A90-DDL-IN-DG-40015 rev. 01 sheet 003, item 6).

Name: Luca Mussi

Date: 2024-12-12

Signature: Digitaly signed by Luca Mussi 2024-12-12T13:21:29.277Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-12T13:21:41.200Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature




2/B400-PCS-002/TB-00-JE-BX00/10
2/B400-PCS-002/TB-00-JE-BX00/12
2/B400-PCS-002/TB-00-JE-BX00/14
2/B400-PCS-002/TB-00-JE-BX00/18
2/B400-PCS-002/TB-00-JE-BX00/20
3/B400-PCS-002/TB-B400-PCS-002/22
1/B400-PCS-002/TB-00-JE-BX00/26
7
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ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001791

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002319	1.4 Discipline	Instrumental
1.2 Item	C-B400-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On panel side, core identification tags are not as per Philosophy of Cross-Ferruling (123A90-DDL-IN-DG-40015 rev 01 sheet 003)

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T16:01:13.232Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T07:43:17.987Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name

Date

Signature

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001597

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002334	1.4 Discipline	Instrumental
1.2 Item	B300-TDC-001	Proximity Switch (B-300)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T14:42:25.583Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T14:44:57.996Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-03

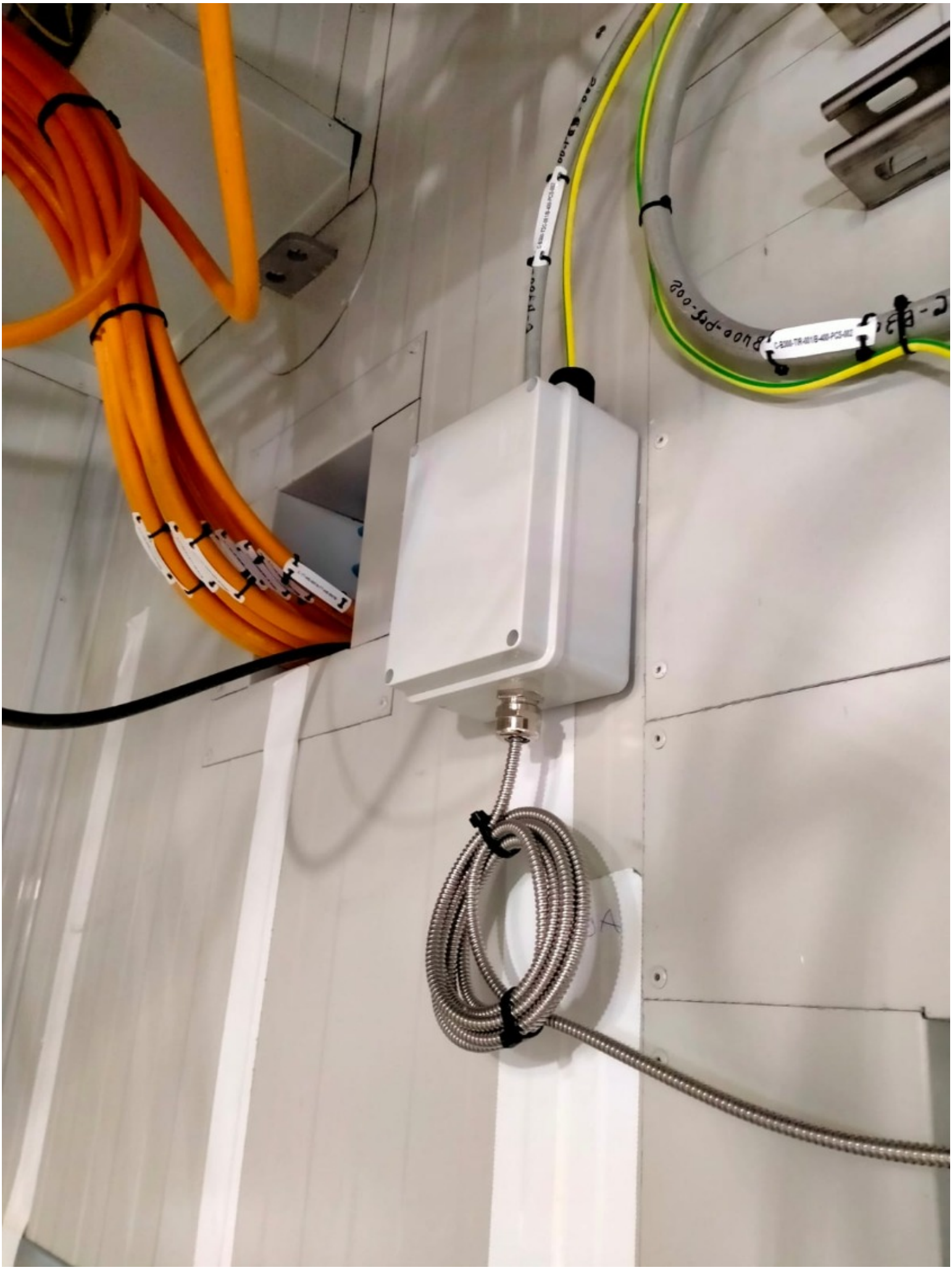
Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-03T16:25:56.866Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001598

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002335	1.4 Discipline	Instrumental
1.2 Item	B300-TDC-002	Proximity Switch (B-300)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T14:46:30.591Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T14:46:42.395Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-03

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-03T16:26:20.650Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001599

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002337	1.4 Discipline	Instrumental
1.2 Item	B400-TDC-001	Proximity Switch (B-400)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T14:50:01.845Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T14:50:13.458Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-03

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-03T16:26:32.063Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001600

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002338	1.4 Discipline	Instrumental
1.2 Item	B400-TDC-002	Proximity Switch (B-400)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T14:51:07.940Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T14:51:20.046Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-03

Signature: Digitaly signed by Giovanni Tangianu 2025-02-03T10:13:44.104Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001601

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002336	1.4 Discipline	Instrumental
1.2 Item	B300-TIR-001	Motion Detector (B-300)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T14:52:22.266Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T14:52:32.703Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:20:25.890Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001602

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002339	1.4 Discipline	Instrumental
1.2 Item	B400-TIR-001	Motion Detector (B-400)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T14:53:30.536Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T14:54:07.472Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:20:37.928Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001605

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002315	1.4 Discipline	Instrumental
1.2 Item	C-B300-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Missing segregation between Intrinsic Safe cables and instrumentation cables

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:29:50.124Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:32:38.794Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-01-31

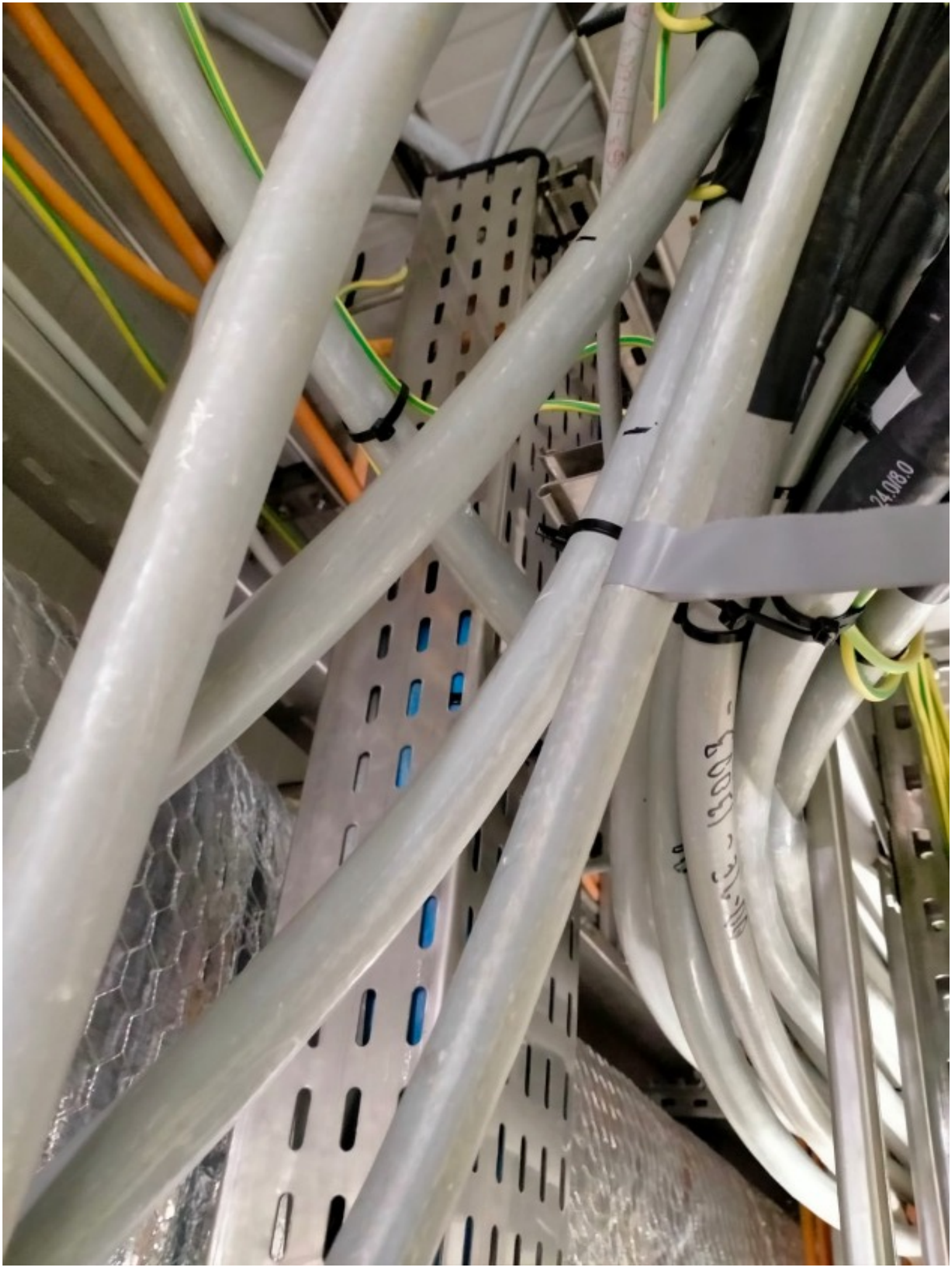
Signature: Digitaly signed by Giovanni Tangianu 2025-01-31T10:49:52.304Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001606

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002316	1.4 Discipline	Instrumental
1.2 Item	C-B300-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Missing segregation between Intrinsic Safe cables and instrumentation cables

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:37:37.636Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:37:49.455Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-02-27

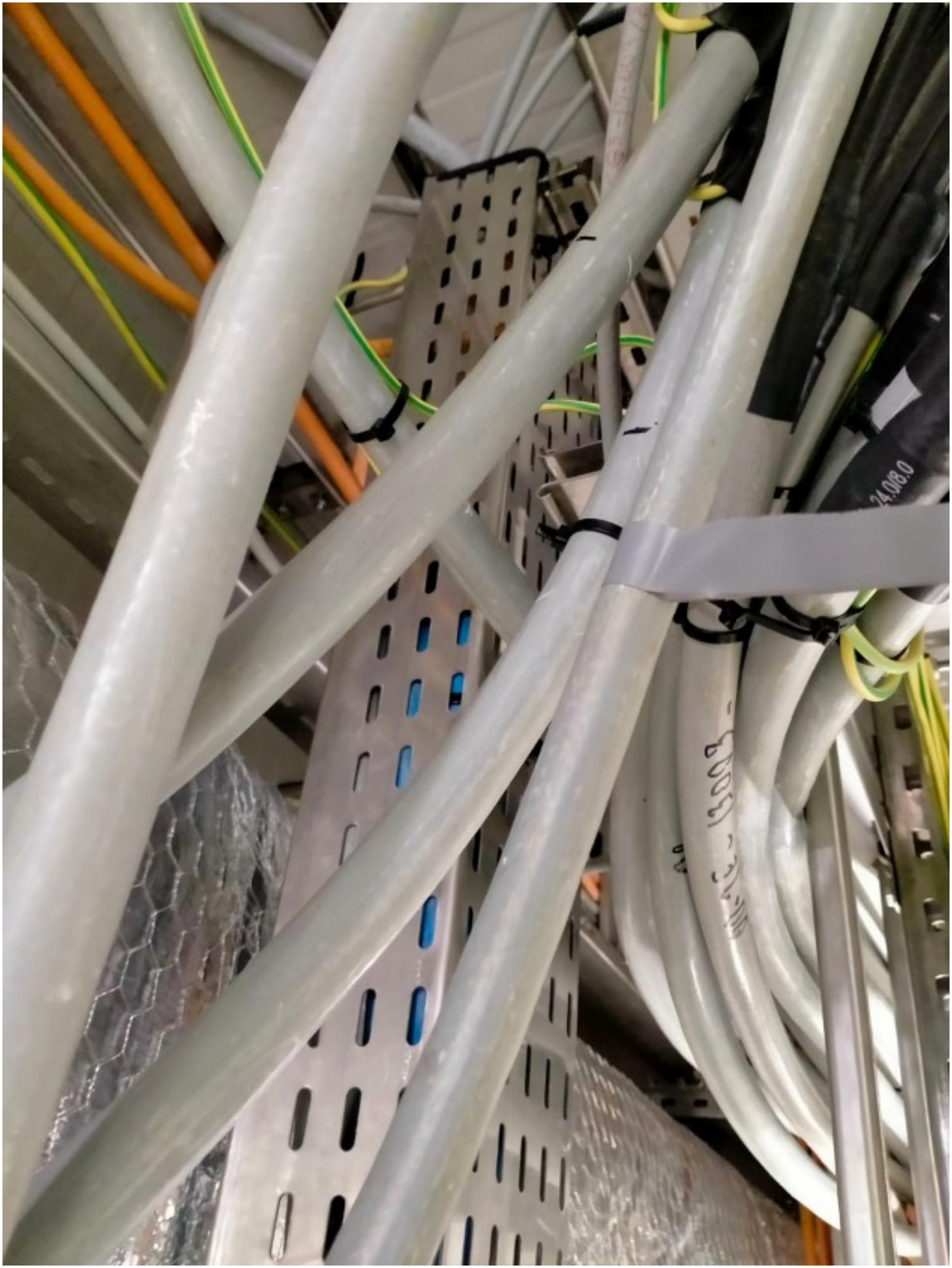
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6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001611

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002318	1.4 Discipline	Instrumental
1.2 Item	C-B400-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Panduit is missing inside the panel

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:59:31.794Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T15:59:42.396Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-03

Signature: Digitaly signed by Giovanni Tangianu 2025-02-03T10:14:02.723Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001613

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002319	1.4 Discipline	Instrumental
1.2 Item	C-B400-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Panduit is missing inside the panel B400-PCS-002.

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T16:01:37.102Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-10
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-10T16:01:47.163Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-18

Signature: Digitaly signed by Andrea Andreani 2024-12-18T17:29:30.370Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001668

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002331	1.4 Discipline	Instrumental
1.2 Item	B200-TDC-001	Proximity Switch (B-200)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-11

Signature: Digitaly signed by Luca Mussi 2024-12-11T16:00:35.283Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-11T16:00:48.448Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-03

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-03T16:25:09.110Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001697

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002332	1.4 Discipline	Instrumental
1.2 Item	B200-TDC-002	Proximity Switch (B-200)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-11

Signature: Digitaly signed by Luca Mussi 2024-12-11T17:52:45.432Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-11T17:53:00.564Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-03

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-03T16:25:29.751Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001699

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002333	1.4 Discipline	Instrumental
1.2 Item	B200-TIR-001	Motion Detector (B-200)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-11

Signature: Digitaly signed by Luca Mussi 2024-12-11T17:54:42.551Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-11T17:54:56.443Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:22:11.996Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001722

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002308	1.4 Discipline	Instrumental
1.2 Item	C-B100-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

On instrument side, core labelling is not as per Cable identification (C-B100-TDC-001/B-400-PCS-022 instead of C-B100-TDC-001/B400-PCS-002).

Name: Luca Mussi

Date: 2024-12-12

Signature: Digitaly signed by Luca Mussi 2024-12-12T13:13:19.154Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-12T13:13:30.098Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-01-31

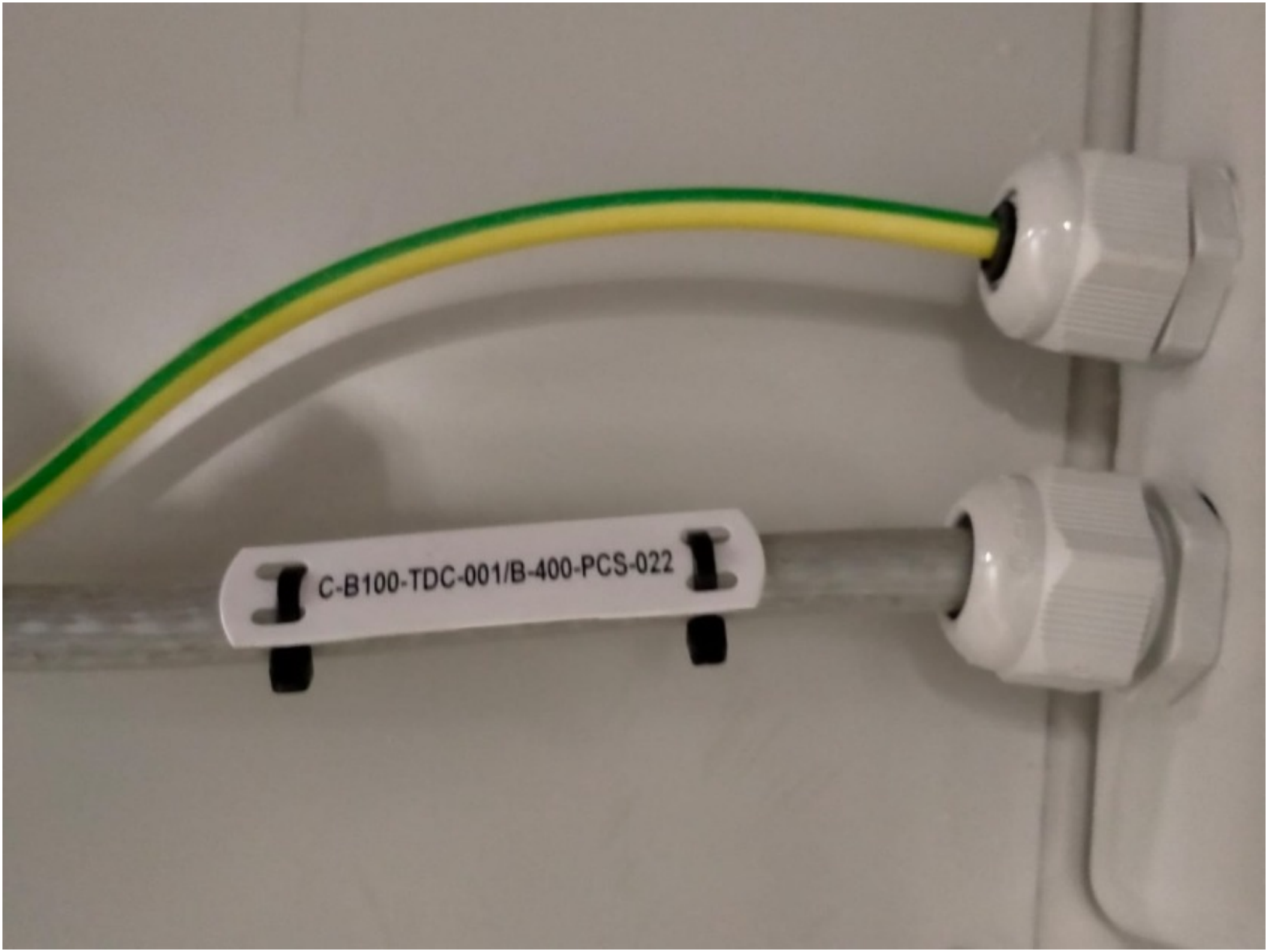
Signature: Digitaly signed by Giovanni Tangianu 2025-01-31T10:49:25.870Z

6- CLEARANCE APPROVAL

Name

Date

Signature


C-B100-TDC-001/B-400-PCS-022

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001728

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002328	1.4 Discipline	Instrumental
1.2 Item	B100-TDC-001	Proximity Switch (B-100)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-12

Signature: Digitaly signed by Luca Mussi 2024-12-12T13:35:25.706Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-12T13:35:39.427Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-31

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-31T09:54:07.726Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001730

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002329	1.4 Discipline	Instrumental
1.2 Item	B100-TDC-002	Proximity Switch (B-100)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing.

Name: Luca Mussi

Date: 2024-12-12

Signature: Digitaly signed by Luca Mussi 2024-12-12T13:38:58.547Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-12T13:39:11.084Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-03

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-03T16:24:50.087Z

6- CLEARANCE APPROVAL

Name

Date

Signature


CHARGER 2

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001732

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002330	1.4 Discipline	Instrumental
1.2 Item	B100-TIR-001	Motion Detector (B-100)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Identification tag is missing.

Name: Luca Mussi

Date: 2024-12-12

Signature: Digitaly signed by Luca Mussi 2024-12-12T13:40:09.416Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-12T13:40:20.830Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:22:48.611Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001790

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002317	1.4 Discipline	Instrumental
1.2 Item	C-B400-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

Panduits are missing on both inside and outside of the panel.

Name: Luca Mussi

Date: 2024-12-10

Signature: Digitaly signed by Luca Mussi 2024-12-10T15:53:26.205Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T07:42:59.056Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-03

Signature: Digitaly signed by Giovanni Tangianu 2025-02-03T10:14:14.422Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001798

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002328	1.4 Discipline	Instrumental
1.2 Item	B100-TDC-001	Proximity Switch (B-100)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:47:35.567Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:48:10.307Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

Signature: Digitaly signed by Alessio Polo 2025-02-11T12:28:55.172Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001799

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002329	1.4 Discipline	Instrumental
1.2 Item	B100-TDC-002	Proximity Switch (B-100)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:50:30.457Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:50:42.876Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-04

Signature: Digitaly signed by Josip Krizanic 2025-03-04T14:15:38.907Z

6- CLEARANCE APPROVAL

Name

Date

Signature

EXIT

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001800

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002331	1.4 Discipline	Instrumental
1.2 Item	B200-TDC-001	Proximity Switch (B-200)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:51:19.749Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:51:32.681Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

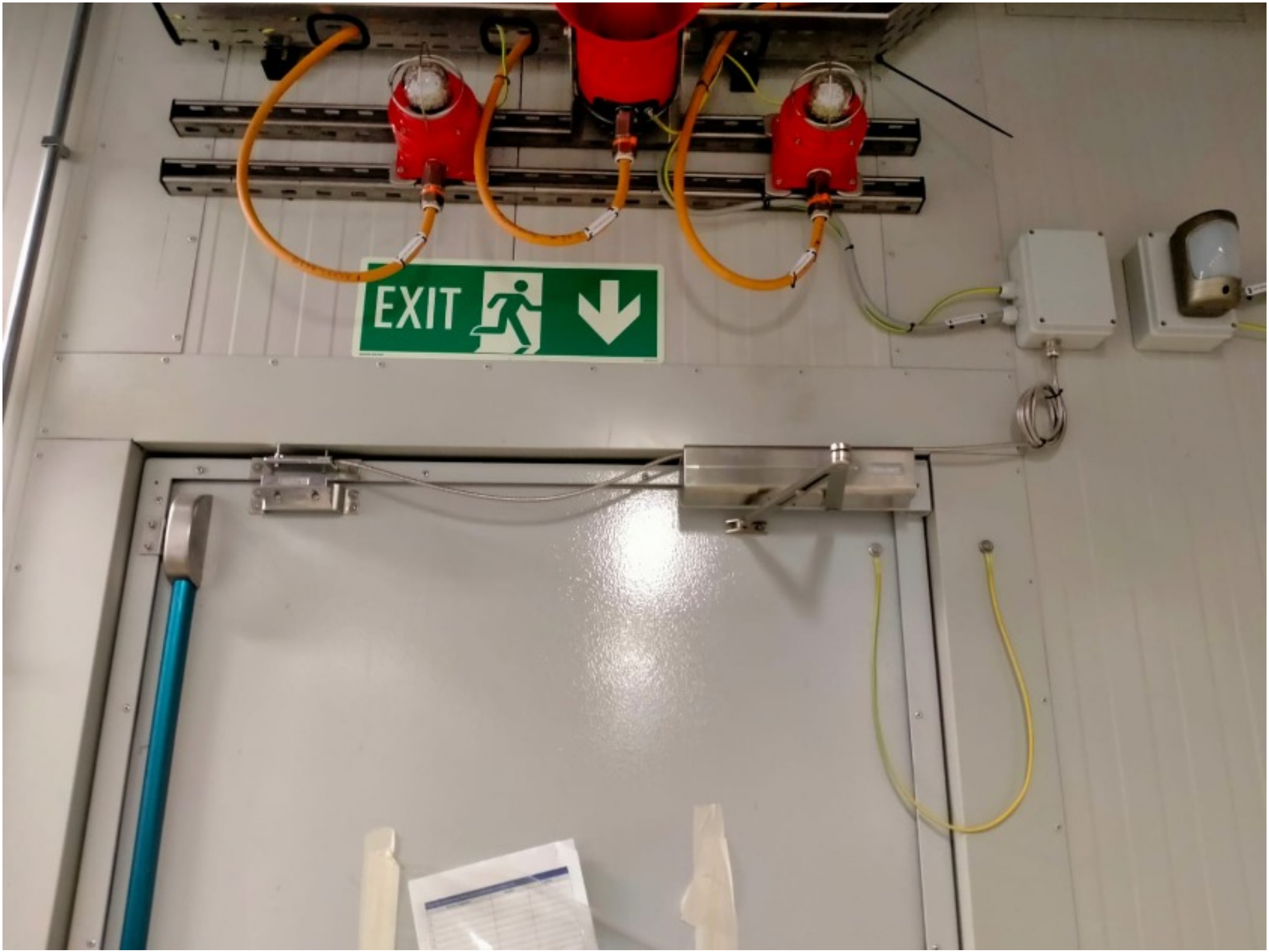
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6- CLEARANCE APPROVAL

Name

Date

Signature


EXIT

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001801

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002332	1.4 Discipline	Instrumental
1.2 Item	B200-TDC-002	Proximity Switch (B-200)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:52:01.515Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:52:12.346Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

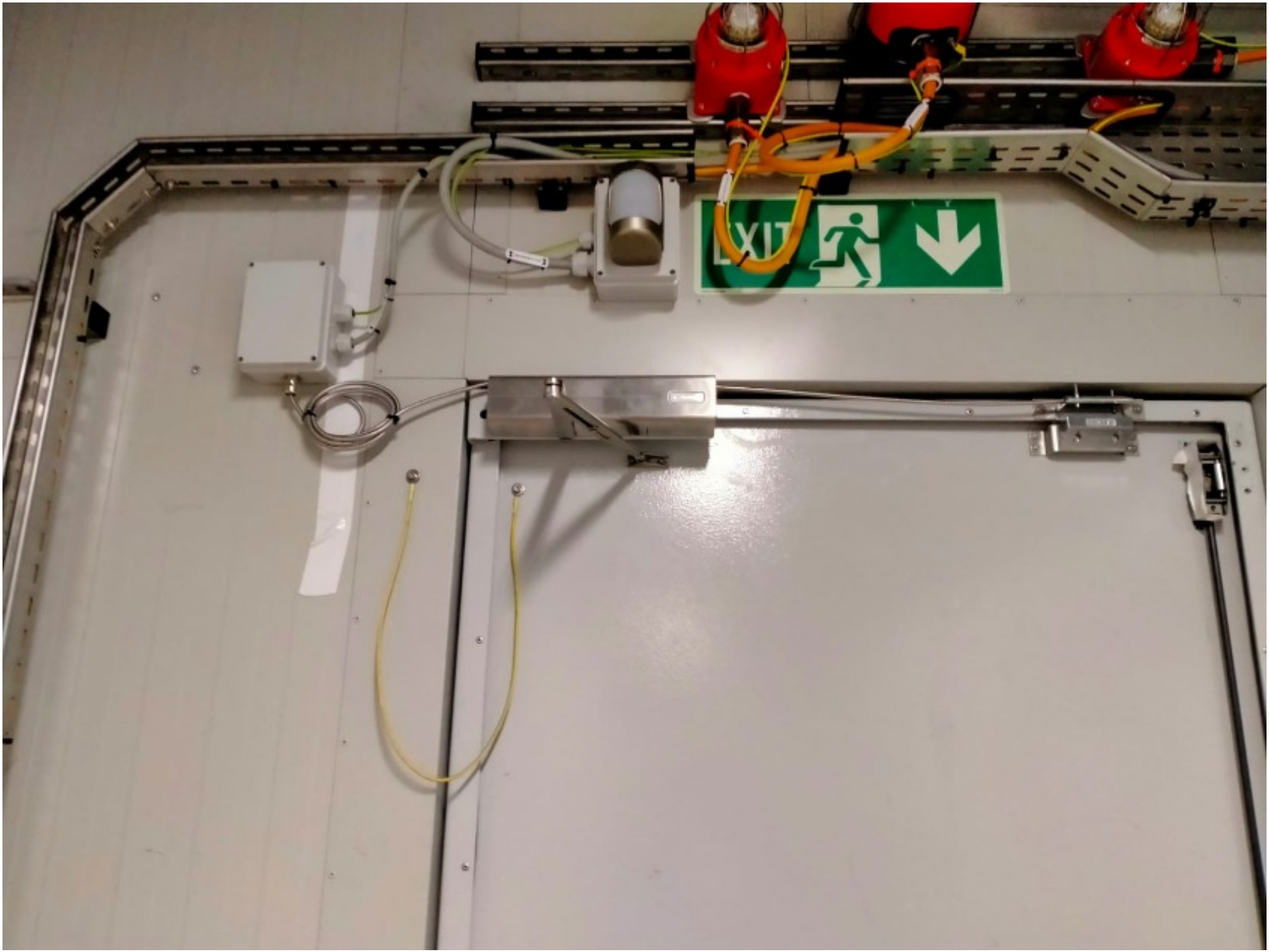
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6- CLEARANCE APPROVAL

Name

Date

Signature


EXIT

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001802

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002334	1.4 Discipline	Instrumental
1.2 Item	B300-TDC-001	Proximity Switch (B-300)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:52:49.223Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:53:00.982Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

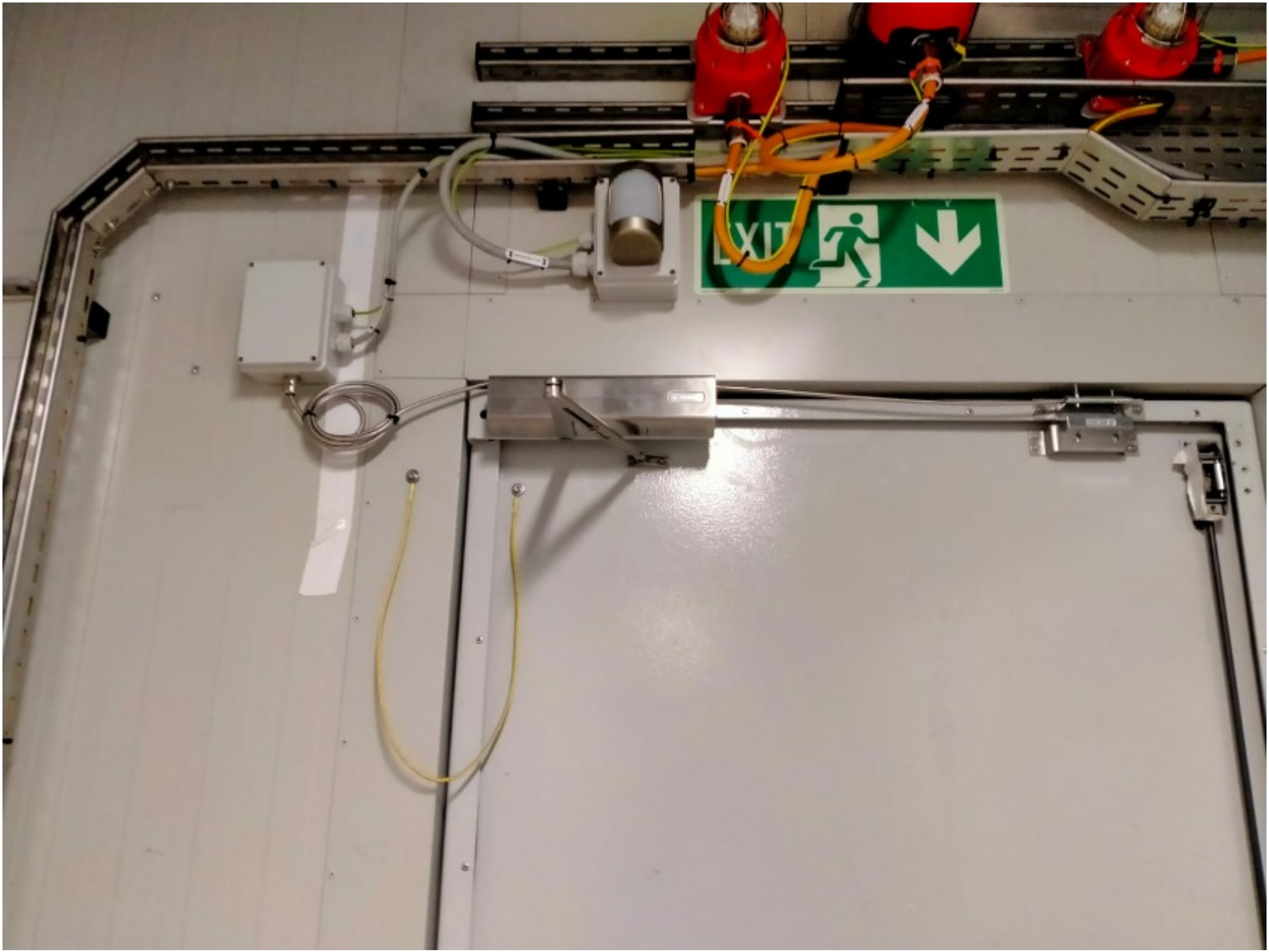
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6- CLEARANCE APPROVAL

Name

Date

Signature


EXIT

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001803

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002335	1.4 Discipline	Instrumental
1.2 Item	B300-TDC-002	Proximity Switch (B-300)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:53:39.791Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:53:53.674Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

Signature: Digitaly signed by Alessio Polo 2025-02-11T12:29:34.975Z

6- CLEARANCE APPROVAL

Name

Date

Signature


EXIT

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001804

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002337	1.4 Discipline	Instrumental
1.2 Item	B400-TDC-001	Proximity Switch (B-400)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:54:14.248Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:54:26.763Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

Signature: Digitaly signed by Alessio Polo 2025-02-11T12:29:44.223Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001805

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002338	1.4 Discipline	Instrumental
1.2 Item	B400-TDC-002	Proximity Switch (B-400)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:54:48.902Z

3 - DEFECT ASSESSMENT

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:55:11.470Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-11

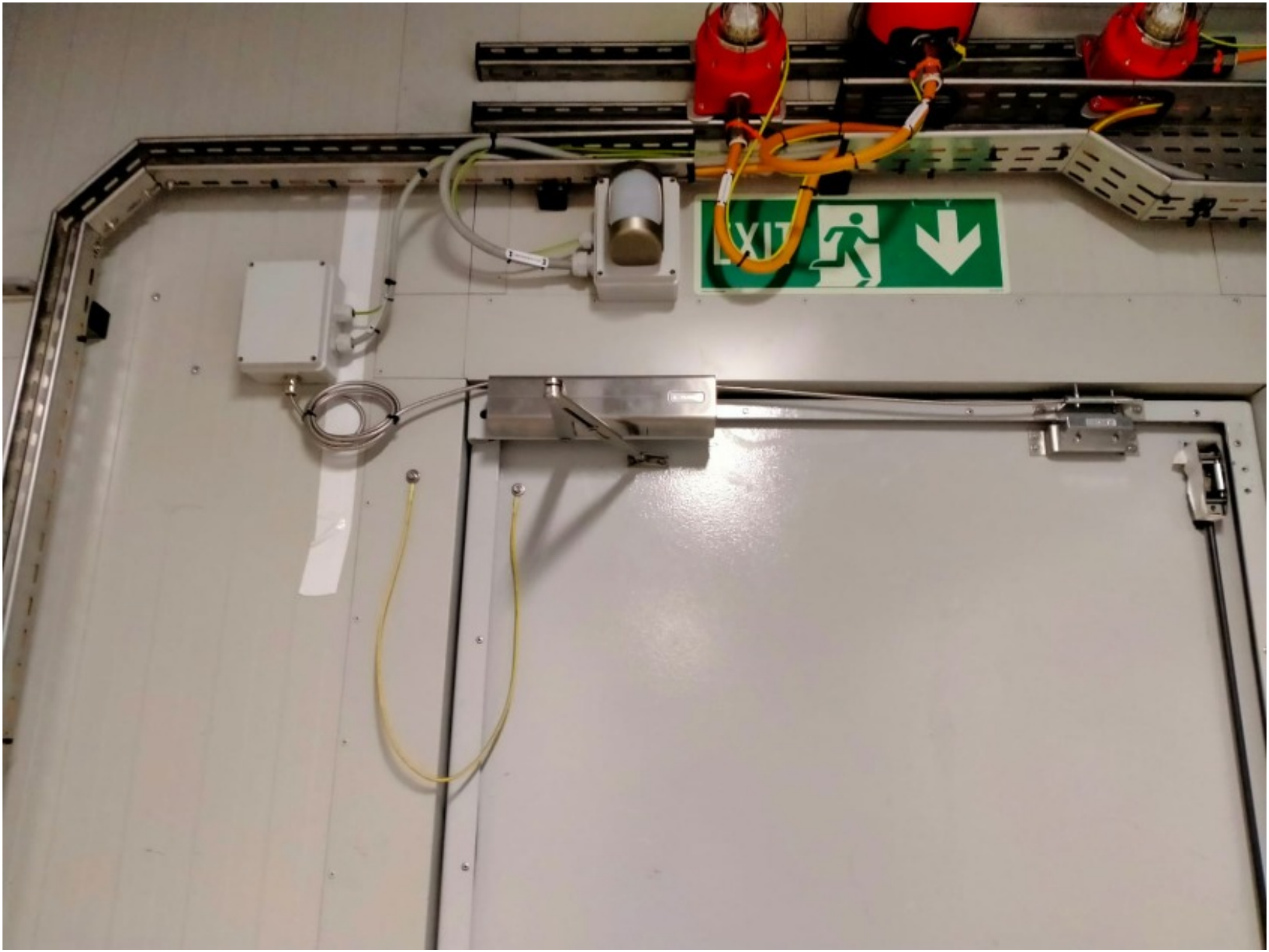
Signature: Digitaly signed by Alessio Polo 2025-02-11T12:29:53.662Z

6- CLEARANCE APPROVAL

Name

Date

Signature


EXIT

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001806

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10002334	1.4 Discipline	Instrumental
1.2 Item	B300-TDC-001	Proximity Switch (B-300)	
1.3 Subsystem	87-20	Process Control System (PCS) - Instrumentation	

2 - OBSERVATION

(Opend during WD) Metallic cable of the magnetic contact to be properly fixed.

Name: Luca Mussi

Date: 2024-12-13

Signature: Digitaly signed by Luca Mussi 2024-12-13T09:56:06.857Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-13T09:56:17.943Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Josip Krizanic

Date: 2025-03-04

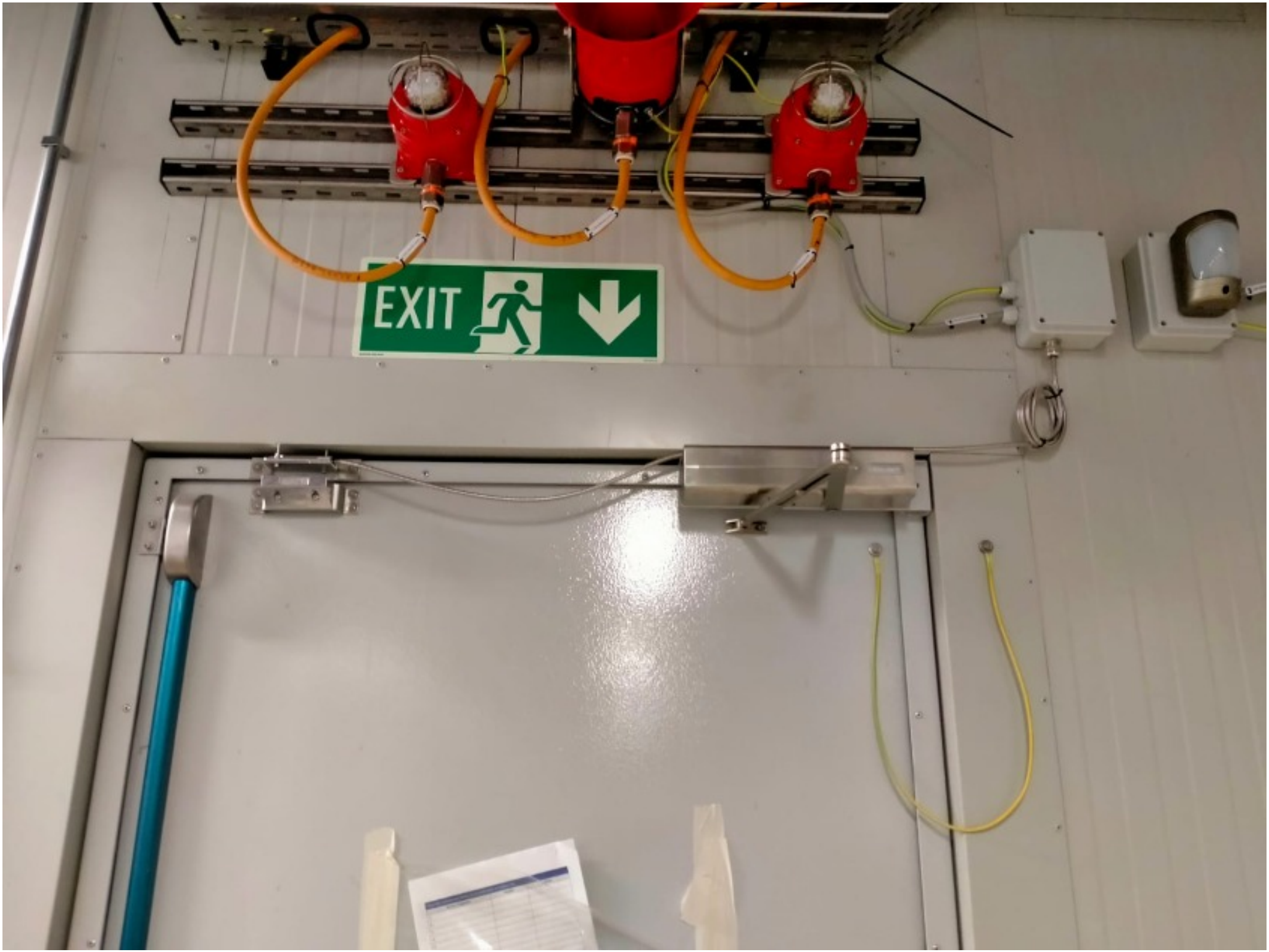
Signature: Digitaly signed by Josip Krizanic 2025-03-04T14:15:50.521Z

6- CLEARANCE APPROVAL

Name

Date

Signature


EXIT

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS

NOT APPLICABLE

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

NOT APPLICABLE

Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 87-20 & process: MC & discipline : I

Instrumental	87-20 Process Control System (PCS) - Instrumentation						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
B100-TDC-001	Proximity Switch (B-100)	ONSHORE	C10002328	CJX00	100	2024-12-12	RFC 1
B100-TDC-002	Proximity Switch (B-100)	ONSHORE	C10002329	CJX00	100	2024-12-12	RFC 1
B100-TIR-001	Motion Detector (B-100)	ONSHORE	C10002330	CJX00	100	2024-12-12	RFC 1
B200-TDC-001	Proximity Switch (B-200)	ONSHORE	C10002331	CJX00	100	2024-12-11	RFC 1
B200-TDC-002	Proximity Switch (B-200)	ONSHORE	C10002332	CJX00	100	2024-12-11	RFC 1
B200-TIR-001	Motion Detector (B-200)	ONSHORE	C10002333	CJX00	100	2024-12-11	RFC 1
B300-TDC-001	Proximity Switch (B-300)	ONSHORE	C10002334	CJX00	100	2024-12-10	RFC 1
B300-TDC-002	Proximity Switch (B-300)	ONSHORE	C10002335	CJX00	100	2024-12-10	RFC 1
B300-TIR-001	Motion Detector (B-300)	ONSHORE	C10002336	CJX00	100	2024-12-10	RFC 1
B400-TDC-001	Proximity Switch (B-400)	ONSHORE	C10002337	CJX00	100	2024-12-10	RFC 1
B400-TDC-002	Proximity Switch (B-400)	ONSHORE	C10002338	CJX00	100	2024-12-10	RFC 1
B400-TIR-001	Motion Detector (B-400)	ONSHORE	C10002339	CJX00	100	2024-12-10	RFC 1
C-B100-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002308	CJX10	100	2024-12-12	RFC 1
C-B100-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002309	CJX10	100	2024-12-12	RFC 1
C-B100-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002310	CJX10	100	2024-12-12	RFC 1
C-B200-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002311	CJX10	100	2024-12-11	RFC 1
C-B200-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002312	CJX10	100	2024-12-11	RFC 1
C-B200-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002313	CJX10	100	2024-12-11	RFC 1
C-B300-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002314	CJX10	100	2024-12-10	RFC 1
C-B300-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002315	CJX10	100	2024-12-10	RFC 1
C-B300-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002316	CJX10	100	2024-12-10	RFC 1
C-B400-TDC-001/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002317	CJX10	100	2024-12-10	RFC 1
C-B400-TDC-002/B400-PCS-002	PROXIMITY SWITCH / MARSHALLING PCS	ONSHORE	C10002318	CJX10	100	2024-12-10	RFC 1
C-B400-TIR-001/B400-PCS-002	MOTION DETECTOR / MARSHALLING PCS	ONSHORE	C10002319	CJX10	100	2024-12-10	RFC 1

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	C-B100-TDC-001/B400-PCS-002 : PROXIMITY SWITCH / MARSHALLING PCS				Dwg	123A90-DDL-IN-LIS-40091
	S/Sys	87-20 : Process Control System (PCS) - Instrumentation				Module	LD_B-100/LD_B-400
TASK	code	C10002308		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental Form CJX10		Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cu-XLPE-OS-LSZH-SWB-LSZH	Cores/Size mm²	1X2X0,75 mm2	Color	GREY
From	B100-TDC-001	To	B400-PCS-002		

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	OK
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	PL
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		3,3	Ω
	SCREEN		3,3	Ω
	EARTH		NA	Ω
	ARMr		3,3	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

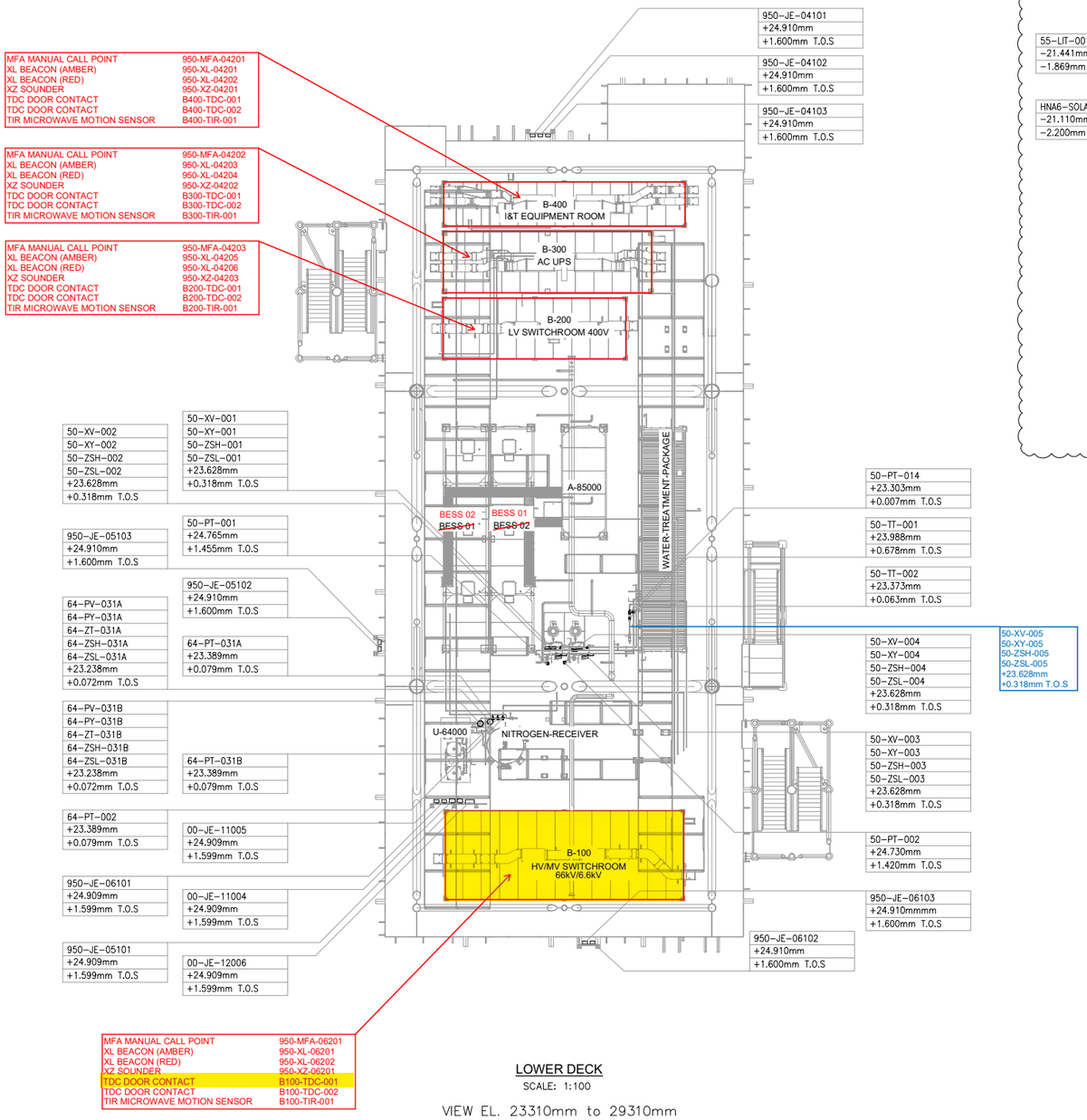
TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 4: refer to PL C30000679

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:13:33.820Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-12T13:13:48.916Z	

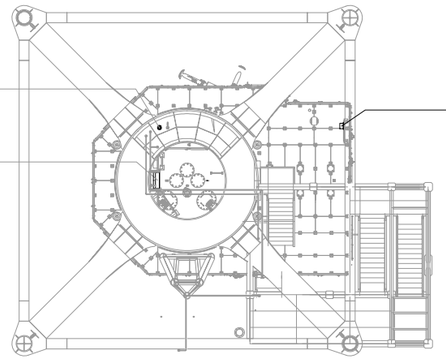
DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

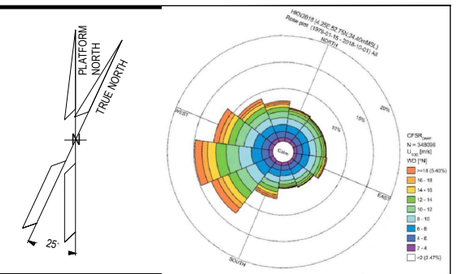


LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm

02



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

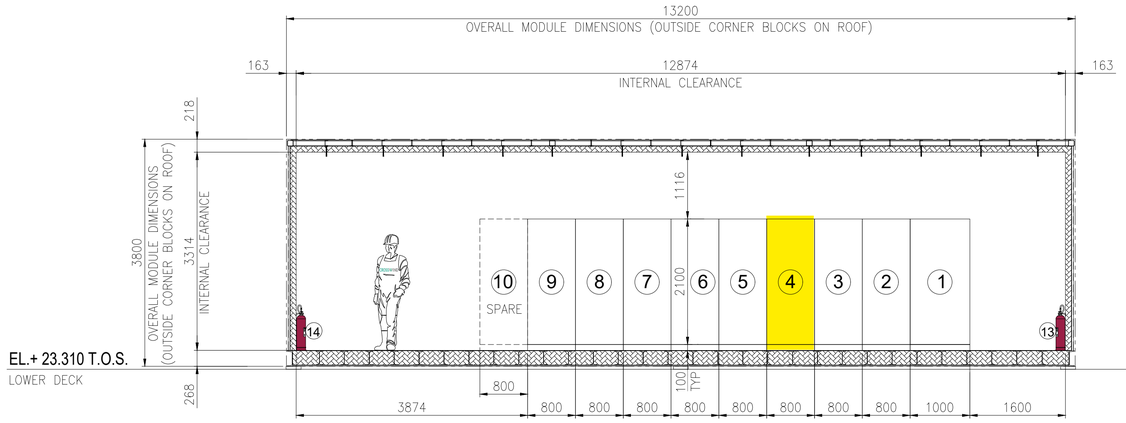
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

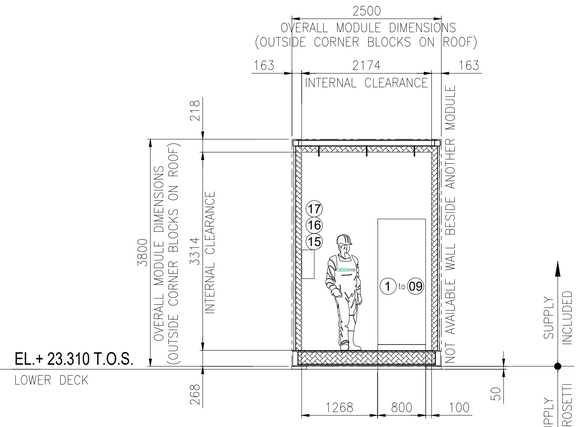
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

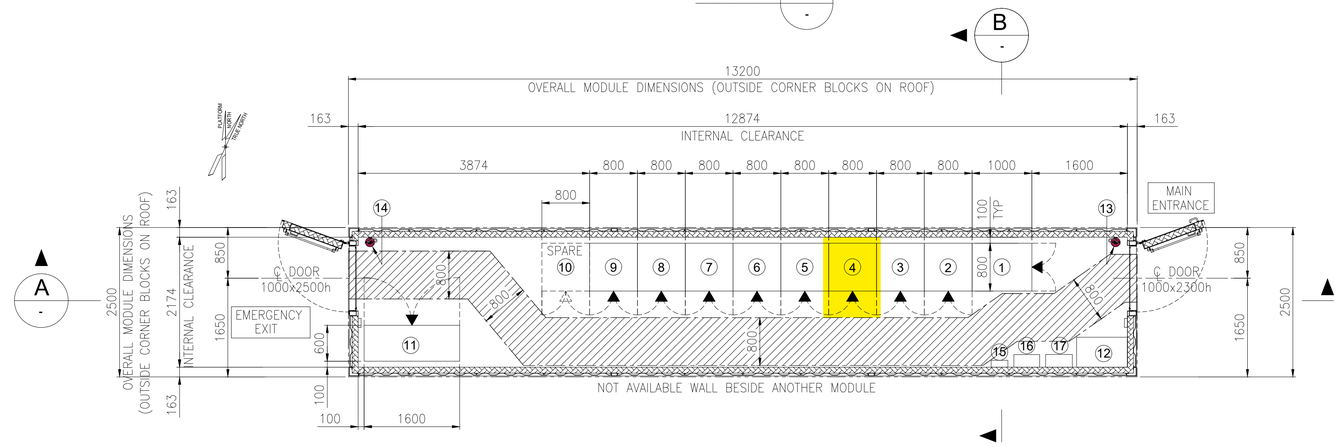
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



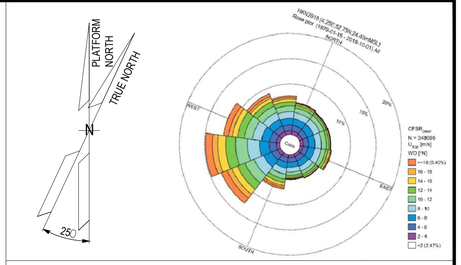
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

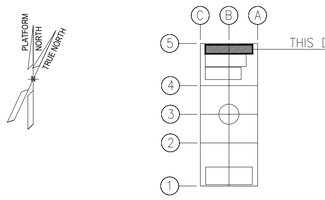
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>

TB-00-JE-BX00
~~TB-B400-PCS-002~~

			CABLE NO		
B-100 HV Switch Gear Room	B100-TDC-001	1 2	C-B100-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	1 2	B100-TDC-001
	B100-TDC-002	1 2	C-B100-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	3 4	B100-TDC-002
	B100-TIR-001	4 3 2+ 1-	C-B100-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	5 6 7 8	B100-TIR-001 B100-TIR-001_PS (12Vdc)
B-200 LV Switch Gear Room	B200-TDC-001	1 2	C-B200-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	9 10	B200-TDC-001
	B200-TDC-002	1 2	C-B200-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	11 12	B200-TDC-002
	B200-TIR-001	4 3 2+ 1-	C-B200-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	13 14 15 16	B200-TIR-001 B200-TIR-001_PS (12Vdc)
B-300 UPS Room	B300-TDC-001	1 2	C-B300-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	17 18	B300-TDC-001
	B300-TDC-002	1 2	C-B300-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	19 20	B300-TDC-002
	B300-TIR-001	4 3 2+ 1-	C-B300-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	21 22 23 24	B300-TIR-001 B300-TIR-001_PS (12Vdc)
B-400 ITER	B400-TDC-001	1 2	C-B400-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	25 26	B400-TDC-001
	B400-TDC-002	1 2	C-B400-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	27 28	B400-TDC-002
	B400-TIR-001	4 3 2+ 1-	C-B400-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	29 30 31 32	B400-TIR-001 B400-TIR-001_PS (12Vdc)

WH, BK, NOTE-2, PR1, PR2, Shield Bar

Shield Bar I.E.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO. 123A90–DDL–IN–DG–40015	SHEET 024	REV. 01

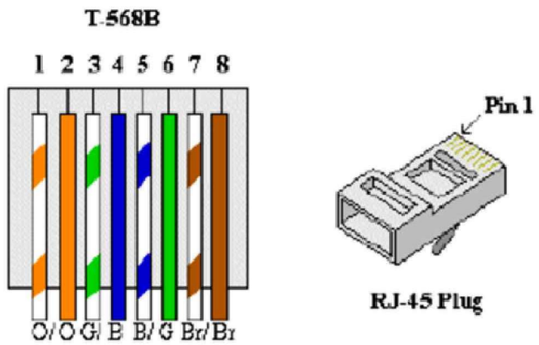
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



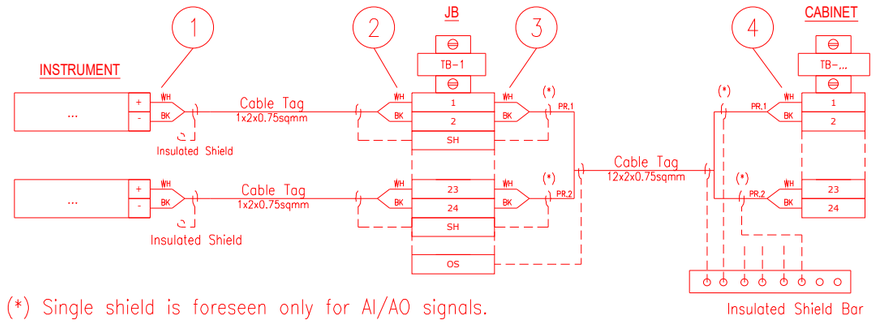
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

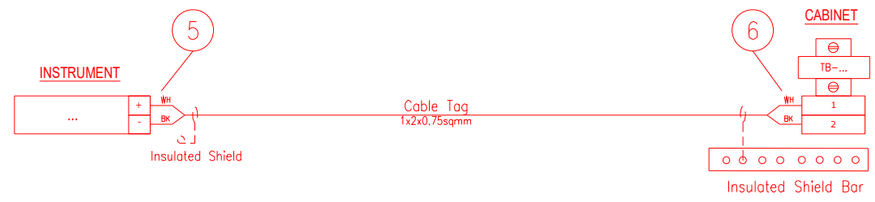
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

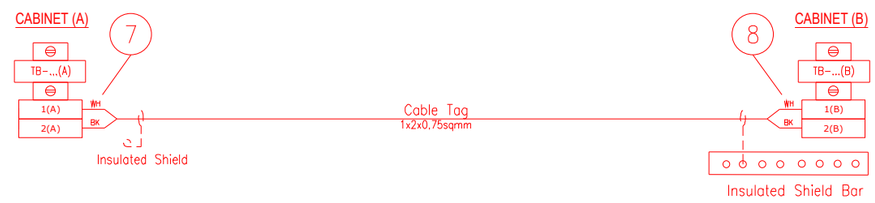
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

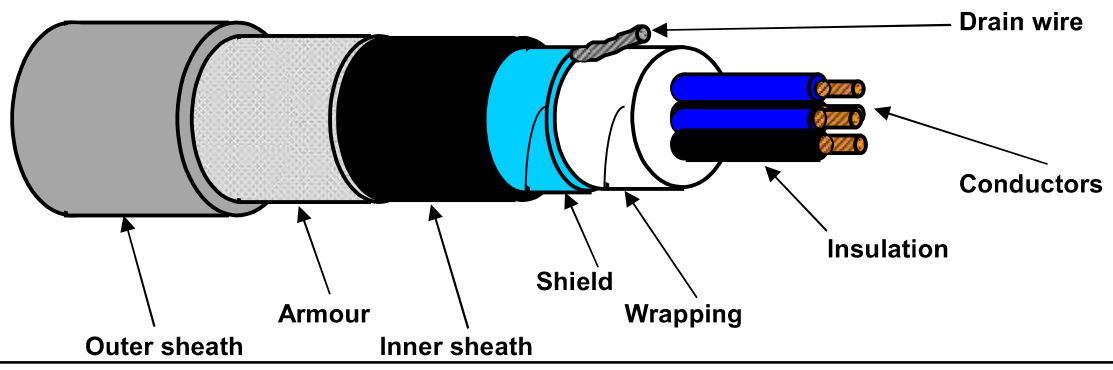
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B100-TDC-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B100-TDC-001	Proximity Switch	Lower Deck (B-100)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				I-MCT-101 / B-100-SEC-1B / B-100-SEC-1A / L-SEC-17 / L-SEC-1N / L-SEC-1M / L-SEC-1L / L-SEC-1J / L-SEC-1I / L-SEC-1H / L-SEC-1G / L-SEC-1F / L-SEC-1E / L-SEC-1D / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO — CROSSWIND

ITEM	Tag	C-B100-TDC-002/B400-PCS-002	:	PROXIMITY SWITCH / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-100/LD_B-400	
TASK	code	C10002309	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cores/Size mm²	Color
Cu-XLPE-OS-LSZH-SWB-LSZH	1X2X0,75 mm2	GREY

From B100-TDC-002 To B400-PCS-002

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	OK
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		3,3	Ω
	SCREEN		3,3	Ω
	EARTH		NA	Ω
	ARMr		3,3	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 4: refer to PL C30000679

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-11	2024-12-12	
Signature	Digitaly signed by Francesco Zucca 2024-12-11T17:13:52.616Z	Digitaly signed by Luca Mussi 2024-12-12T13:18:50.088Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 02
~~BESS 01~~

BESS 01
~~BESS 02~~

WATER-TREATMENT-PACKAGE

U-64000
NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
~~TDC DOOR CONTACT~~	~~B100-TDC-001~~
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

VIEW EL. 23310mm to 29310mm

02

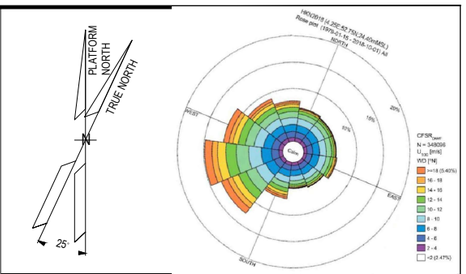
55-LIT-001
-21.441mm
-1.869mm T.O.S

HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S

TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

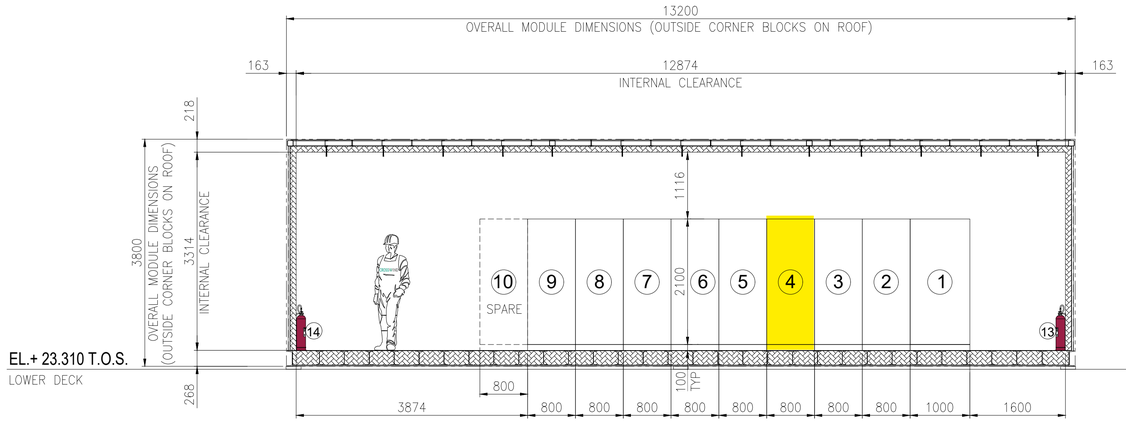
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

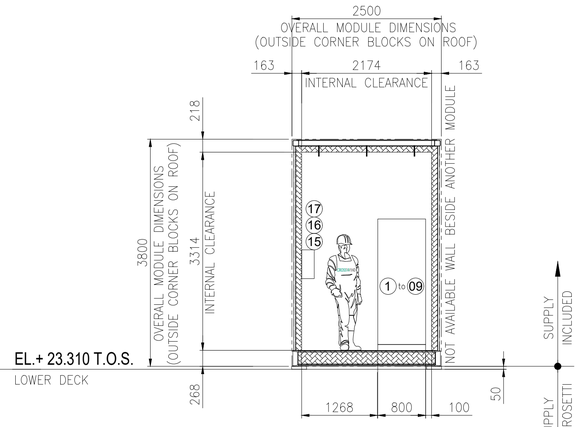
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

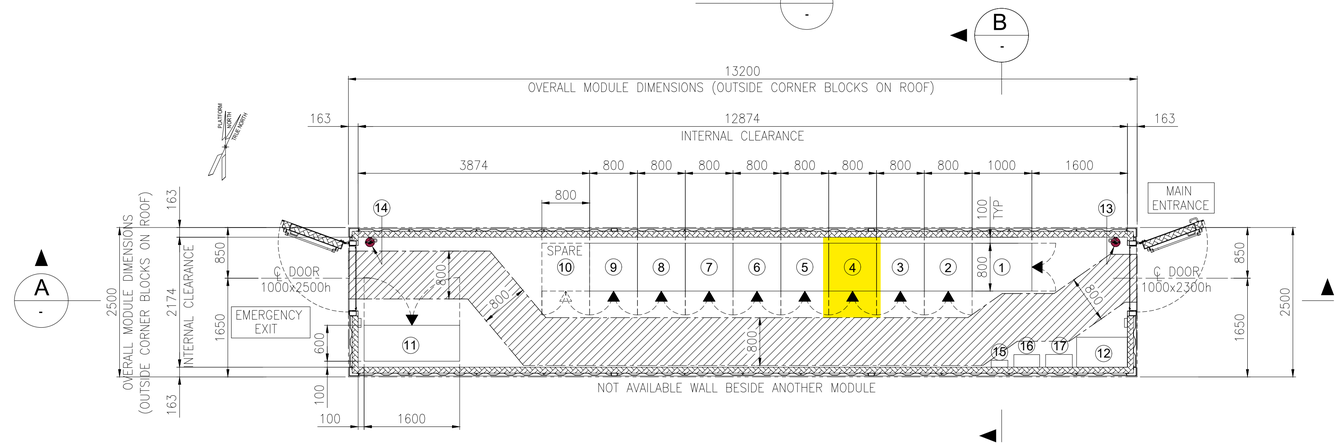
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



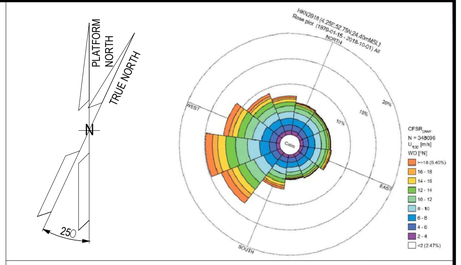
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

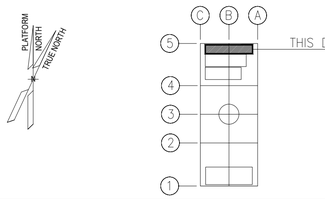
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

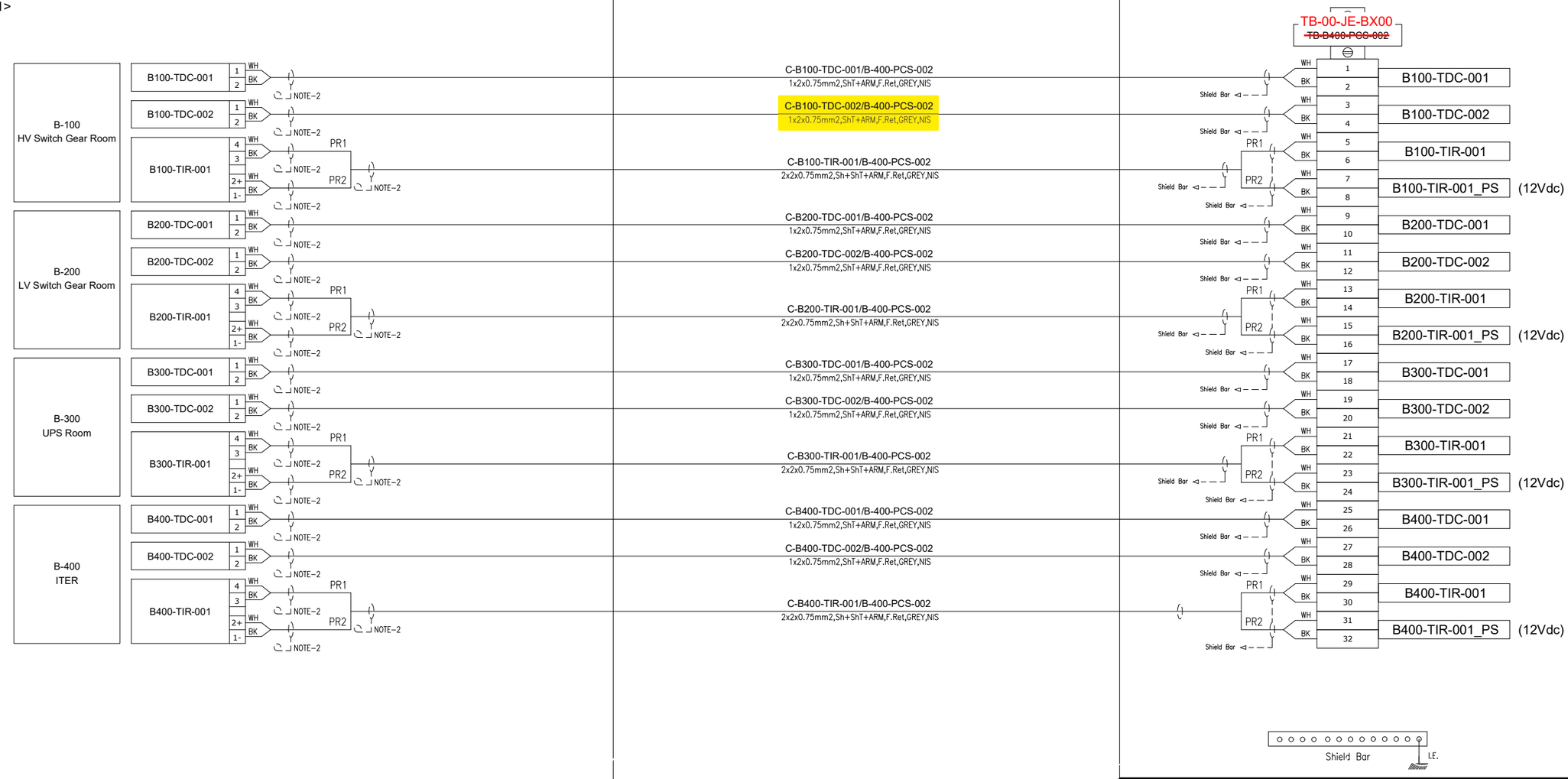
File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

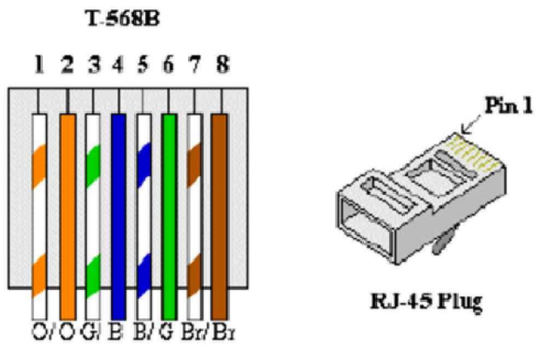
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



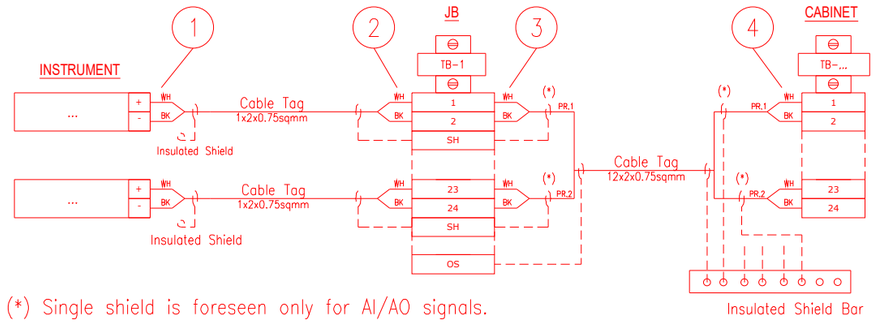
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

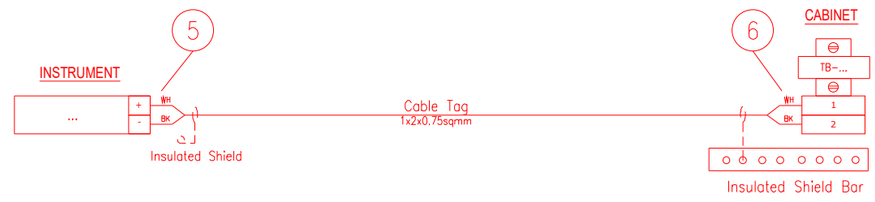
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

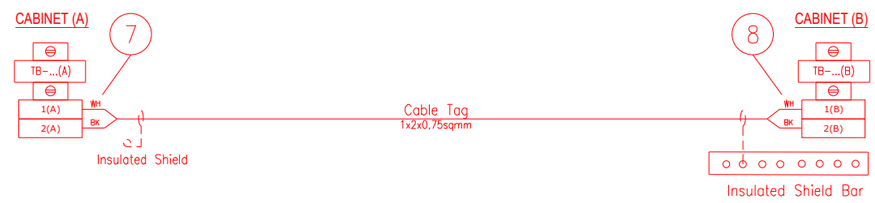
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

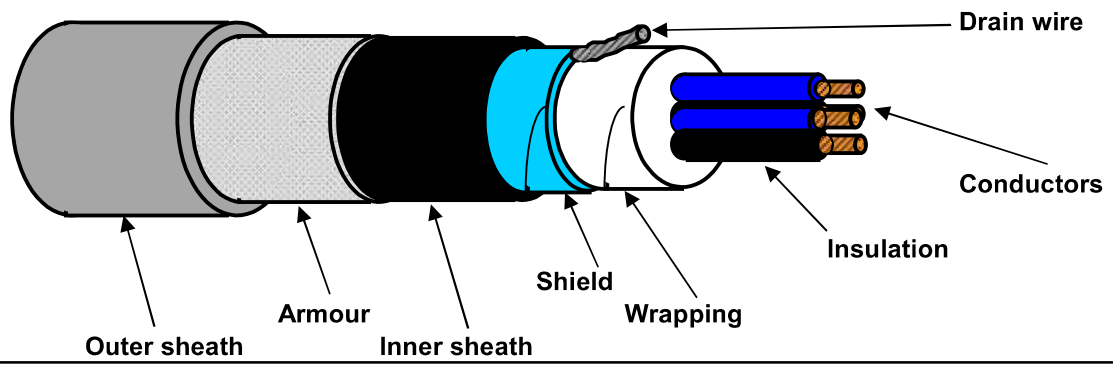
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B100-TDC-002/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B100-TDC-002	Proximity Switch	Lower Deck (B-100)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				I-MCT-101 / B-100-SEC-1A / L-SEC-17 / L-SEC-1N / L-SEC-1M / L-SEC-1L / L-SEC-1J / L-SEC-1I / L-SEC-1H / L-SEC-1G / L-SEC-1F / L-SEC-1E / L-SEC-1D / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	C-B100-TIR-001/B400-PCS-002	:	MOTION DETECTOR / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-100/LD_B-400	
TASK	code	C10002310	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cu-XLPE-IS-OS-LSZH-SWB-LSZH	Cores/Size mm²	2X2X0,75 mm2	Color	GREY
From	B100-TIR-001	To	B400-PCS-002		

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	OK
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		3,3	Ω
	SCREEN		3,3	Ω
	EARTH		NA	Ω
	ARMr		3,3	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 4: refer to PL C30000679

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:14:03.232Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-12T13:22:20.649Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 02
~~BESS 01~~

BESS 01
~~BESS 02~~

WATER-TREATMENT-PACKAGE

U-64000
NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

VIEW EL. 23310mm to 29310mm

02

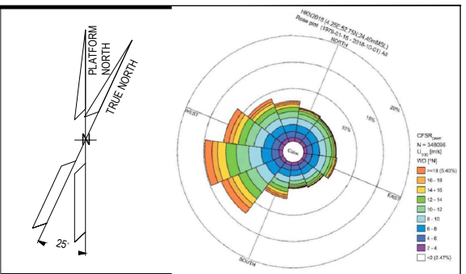
55-LIT-001
-21.441mm
-1.869mm T.O.S

HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S

TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

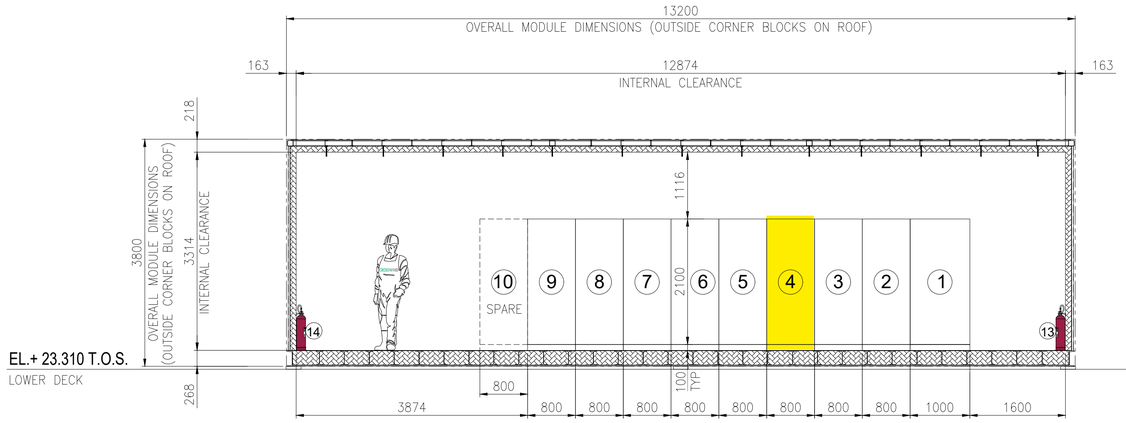
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

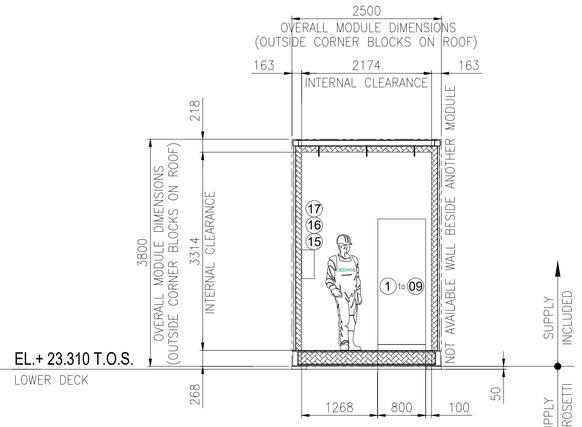
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

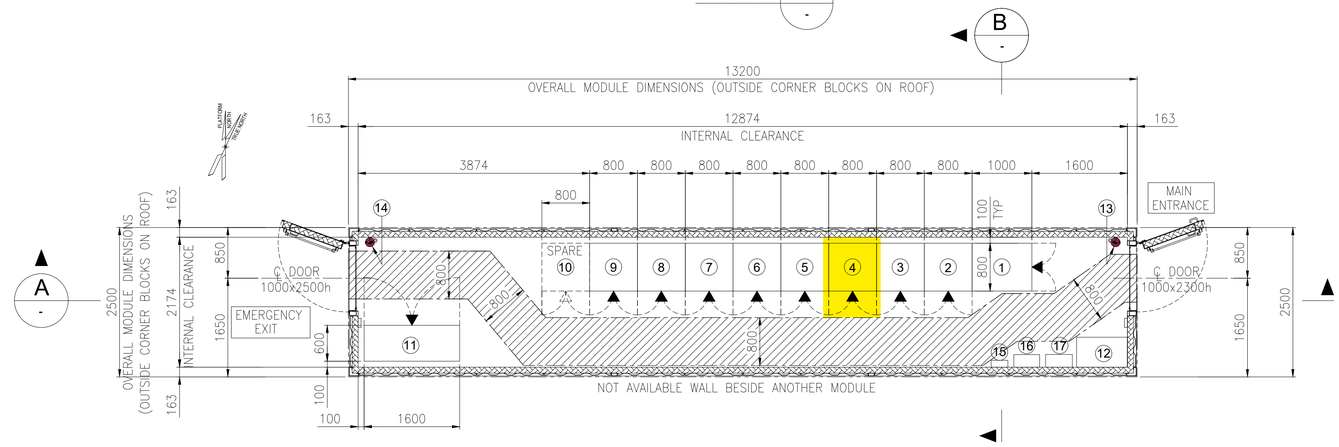
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



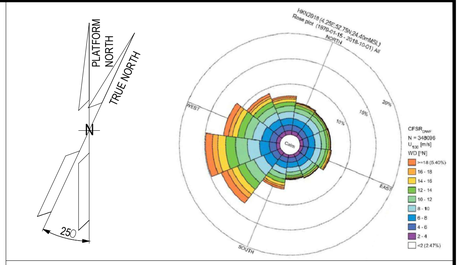
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

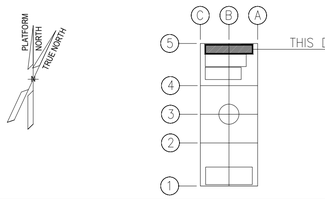
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

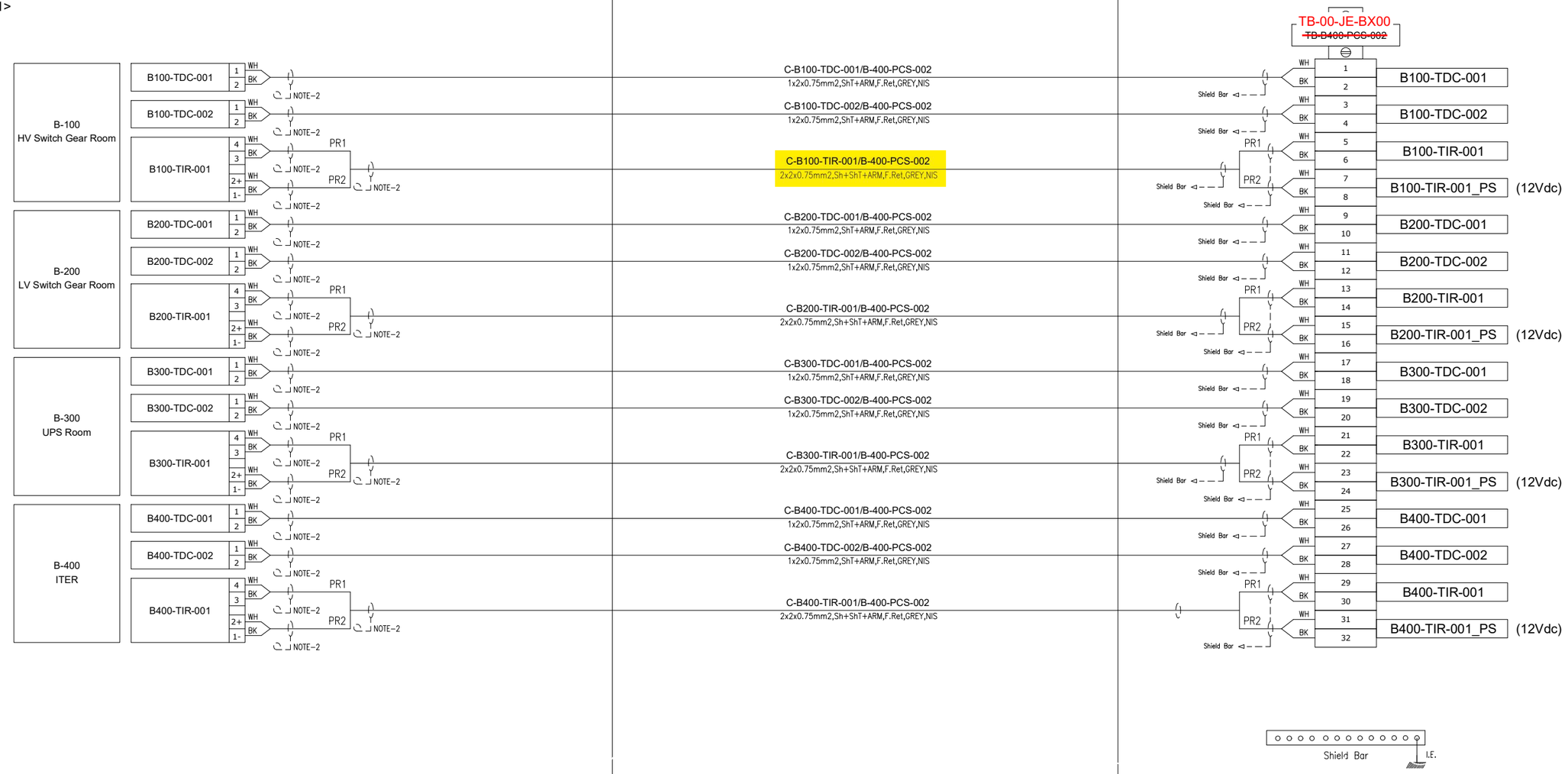
File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

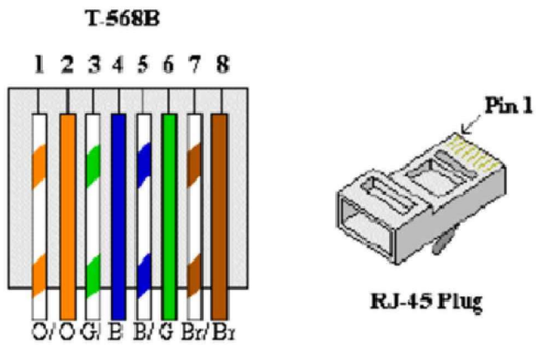
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



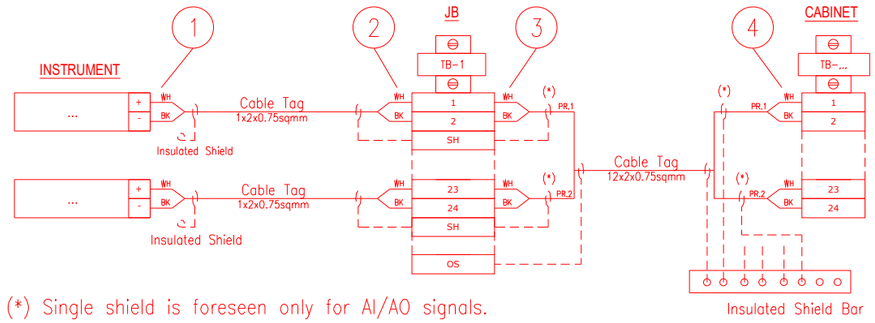
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

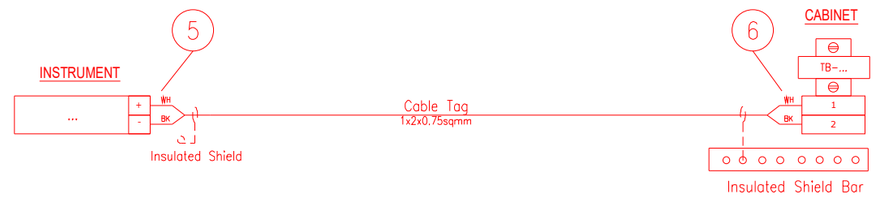
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

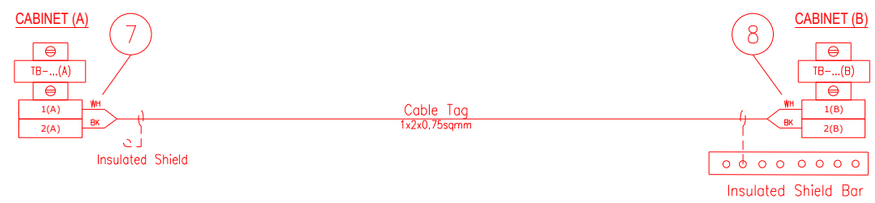
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

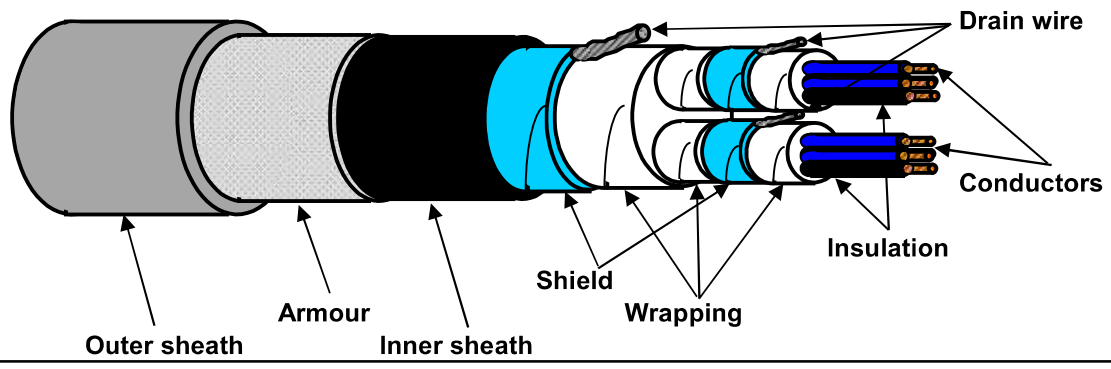
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B100-TIR-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B100-TIR-001	Motion Detector	Lower Deck (B-100)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV02-2X2X0,75	Cable Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 150/250V (300V) 2x2x0,75mm² - Grey	M20	T2_M20_Double			n.a.				I-MCT-101 / B-100-SEC-1A / L-SEC-17 / L-SEC-1N / L-SEC-1M / L-SEC-1L / L-SEC-1J / L-SEC-1I / L-SEC-1H / L-SEC-1G / L-SEC-1F / L-SEC-1E / L-SEC-1D / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 150/250 V (300 V)

2X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black (each core NUMBERED for PAIR identification)**	
Pair Assembling :	13/1mt	
Pair Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Pair Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Shield Insulation :	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Total Assembling :	7/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant, Average Thickness 1,3 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 2X2X0,75 SQMM - XLPE/IS/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(11,4 ± 10%) mm	
Over armour diameter :	(12,6 ± 10%) mm	
Outer diameter :	(15,2 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO

CROSSWIND

ITEM	Tag	C-B200-TDC-001/B400-PCS-002	:	PROXIMITY SWITCH / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-200/LD_B-400	
TASK	code	C10002311	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cores/Size mm²	Color
Cu-XLPE-OS-LSZH-SWB-LSZH	1X2X0,75 mm2	GREY

From B200-TDC-001 To B400-PCS-002

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	OK
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		1,6	Ω
	SCREEN		1,6	Ω
	EARTH		NA	Ω
	ARMr		1,6	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

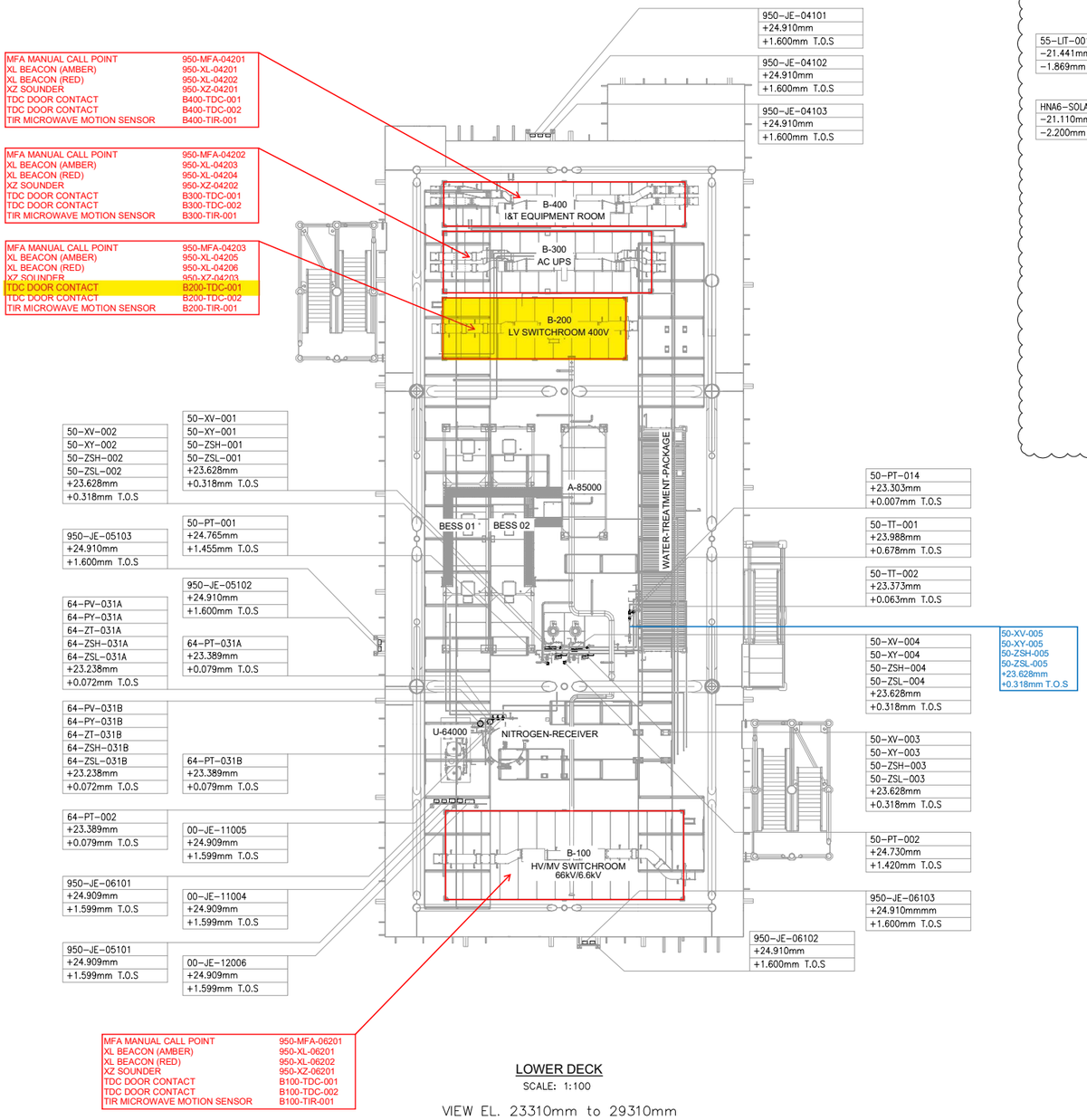
TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 5: refer to PL C30000680

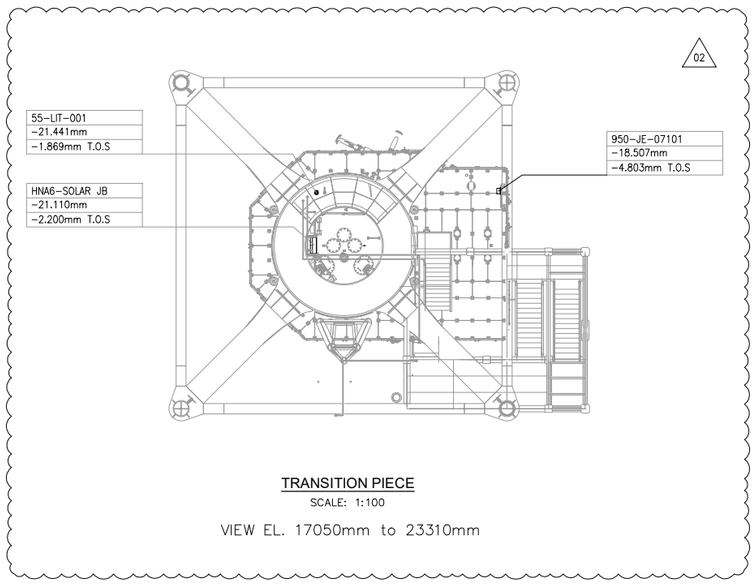
Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-09	2024-12-11	
Signature	Digitaly signed by Francesco Zucca 2024-12-09T13:40:22.300Z	Digitaly signed by Luca Mussi 2024-12-11T15:54:06.779Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

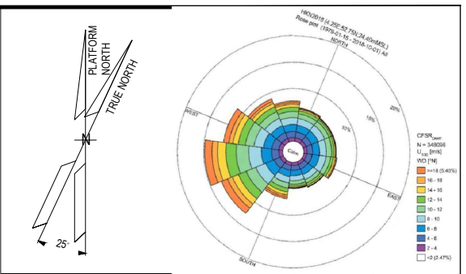
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

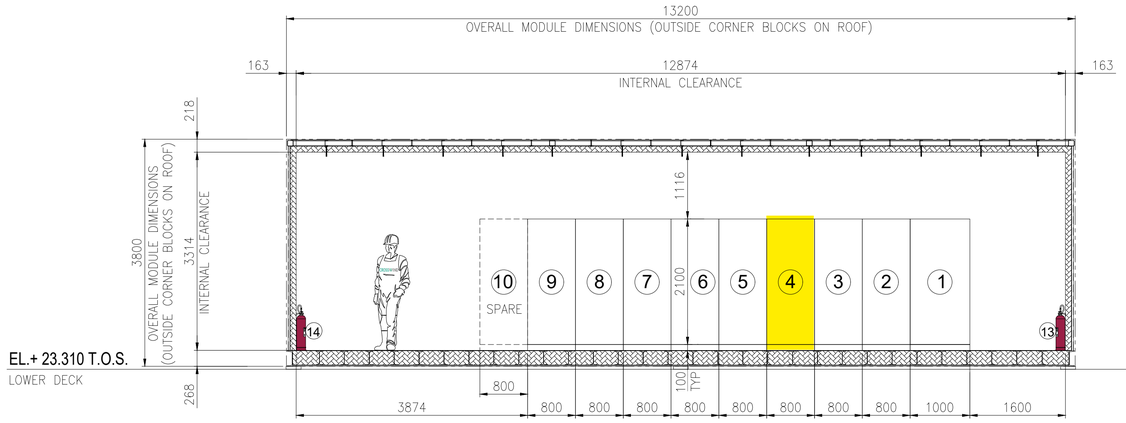
ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

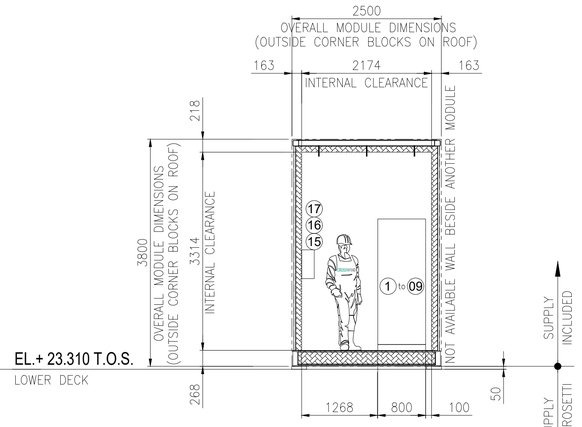
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

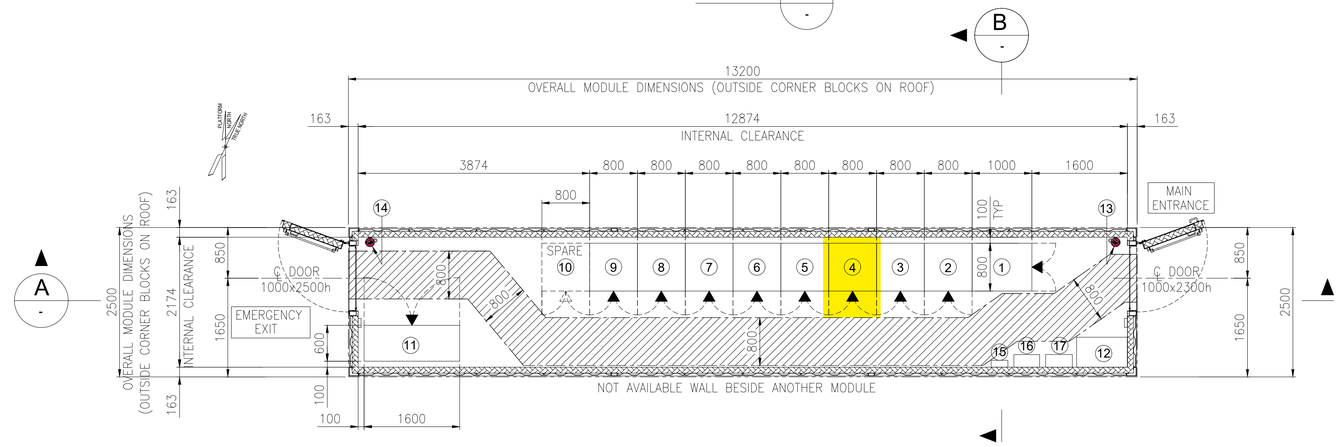
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



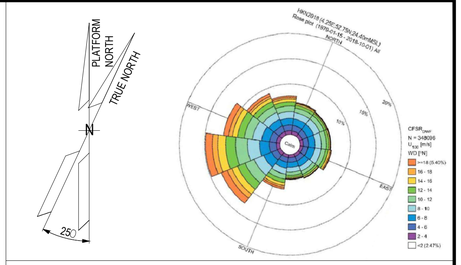
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

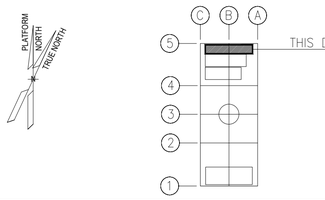
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>

TB-00-JE-BX00
~~TB-B400-PCS-002~~

EQUIPMENT ROOM		CABLE NO		MARSHALLING CABINET B400-PCS-002	
B-100 HV Switch Gear Room	B100-TDC-001	C-B100-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		1,2	B100-TDC-001
	B100-TDC-002	C-B100-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		3,4	B100-TDC-002
	B100-TIR-001	C-B100-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		5,6	B100-TIR-001
				7,8	B100-TIR-001_PS (12Vdc)
B-200 LV Switch Gear Room	B200-TDC-001	C-B200-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		9,10	B200-TDC-001
	B200-TDC-002	C-B200-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		11,12	B200-TDC-002
	B200-TIR-001	C-B200-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		13,14	B200-TIR-001
				15,16	B200-TIR-001_PS (12Vdc)
B-300 UPS Room	B300-TDC-001	C-B300-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		17,18	B300-TDC-001
	B300-TDC-002	C-B300-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		19,20	B300-TDC-002
	B300-TIR-001	C-B300-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		21,22	B300-TIR-001
				23,24	B300-TIR-001_PS (12Vdc)
B-400 ITER	B400-TDC-001	C-B400-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		25,26	B400-TDC-001
	B400-TDC-002	C-B400-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		27,28	B400-TDC-002
	B400-TIR-001	C-B400-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		29,30	B400-TIR-001
				31,32	B400-TIR-001_PS (12Vdc)

Shield Bar — I.E.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

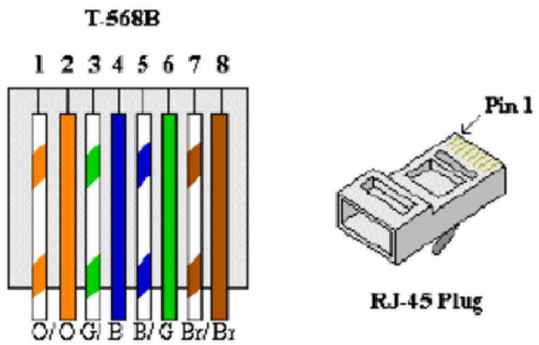
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



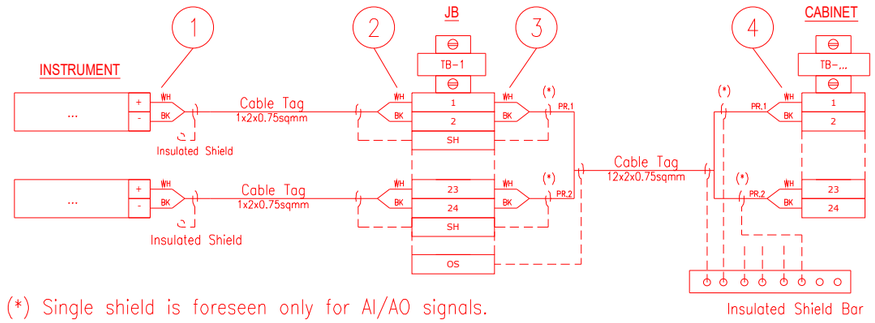
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

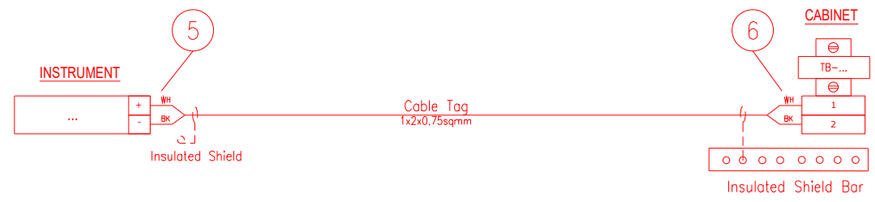
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

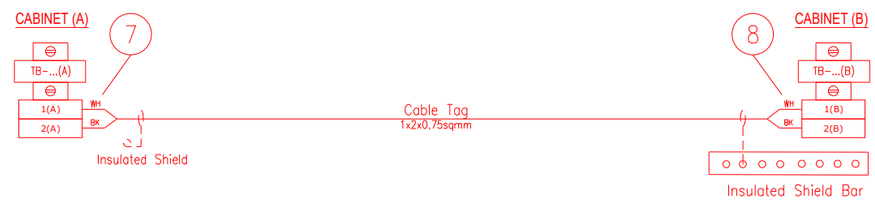
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

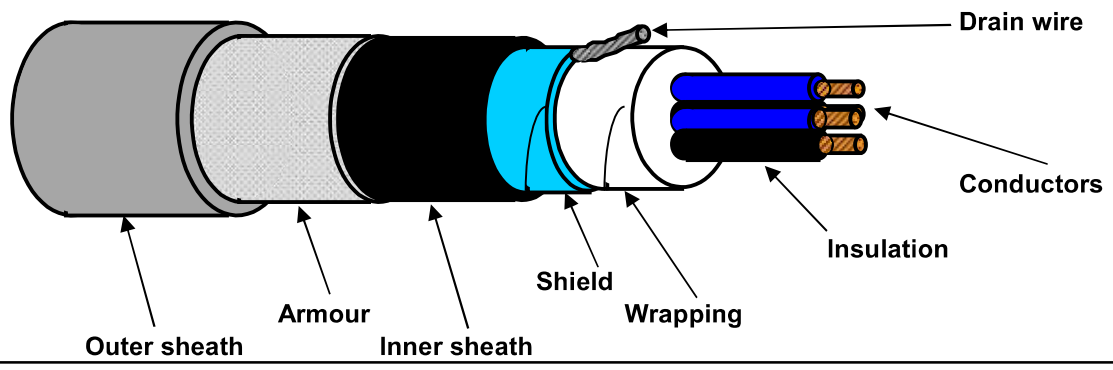
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B200-TDC-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B200-TDC-001	Proximity Switch	Lower Deck (B-200)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				I-MCT-201 / B-200-SEC-2E / B-200-SEC-2C / B-200-SEC-2B / B-200-SEC-2A / L-SEC-5 / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO — CROSSWIND

ITEM	Tag	C-B200-TDC-002/B400-PCS-002	:	PROXIMITY SWITCH / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-200/LD_B-400	
TASK	code	C10002312	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cores/Size mm²	Color
Cu-XLPE-OS-LSZH-SWB-LSZH	1X2X0,75 mm2	GREY

From B200-TDC-002 To B400-PCS-002

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	OK
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		1,0	Ω
	SCREEN		1,0	Ω
	EARTH		NA	Ω
	ARMr		1,0	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

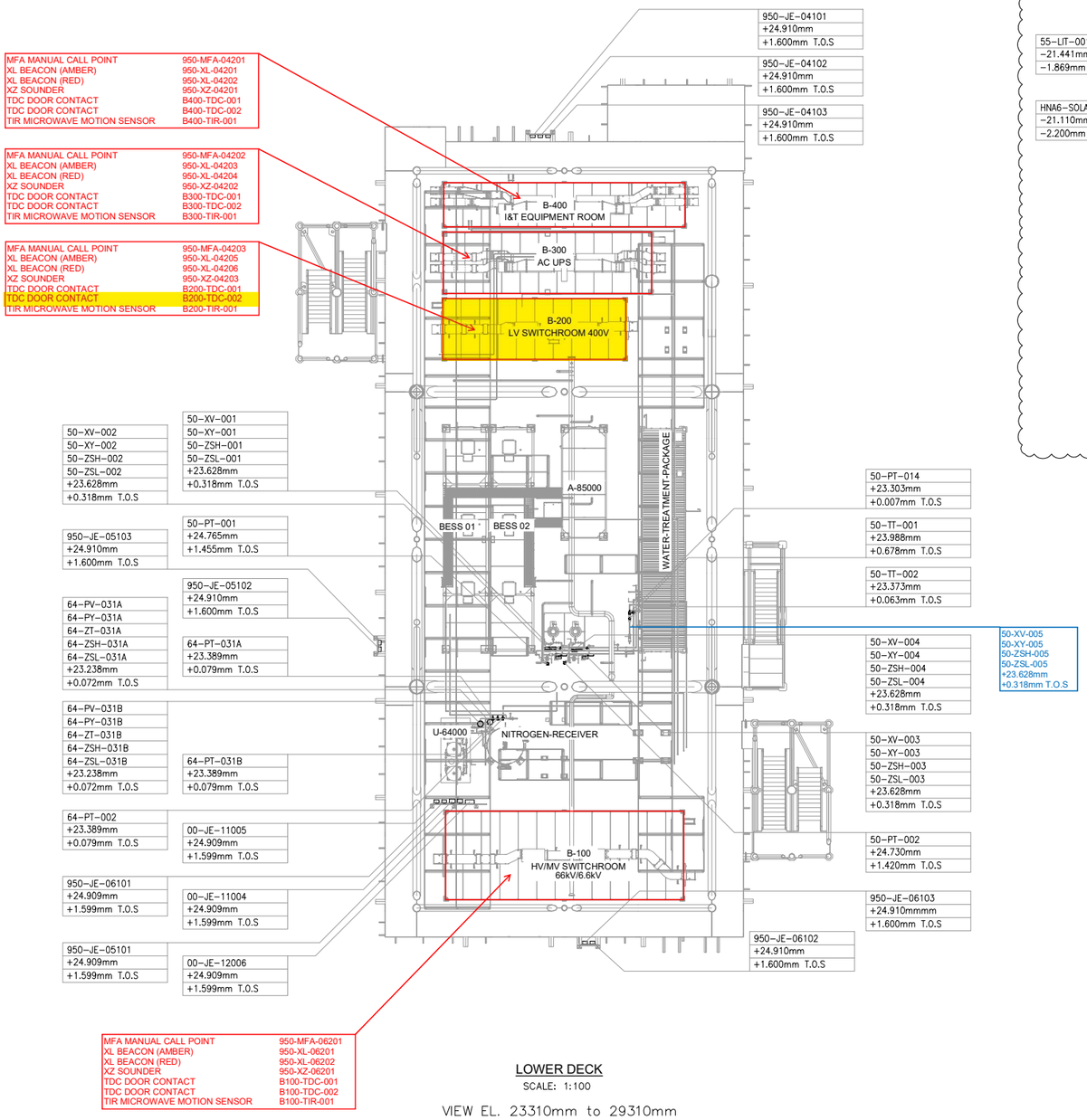
TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 5: refer to PL C30000680

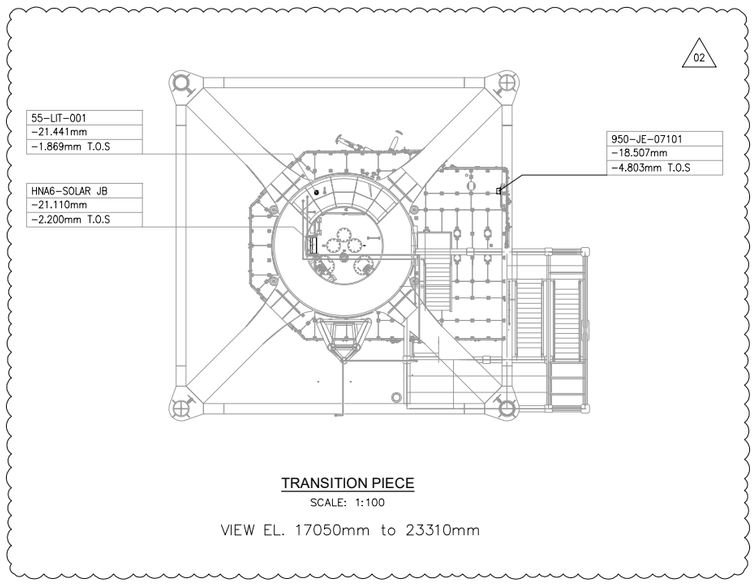
Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-09	2024-12-11	
Signature	Digitaly signed by Francesco Zucca 2024-12-09T13:41:11.751Z	Digitaly signed by Luca Mussi 2024-12-11T15:56:18.474Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

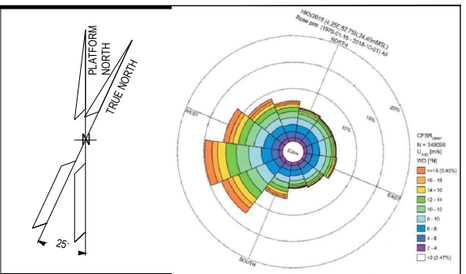
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

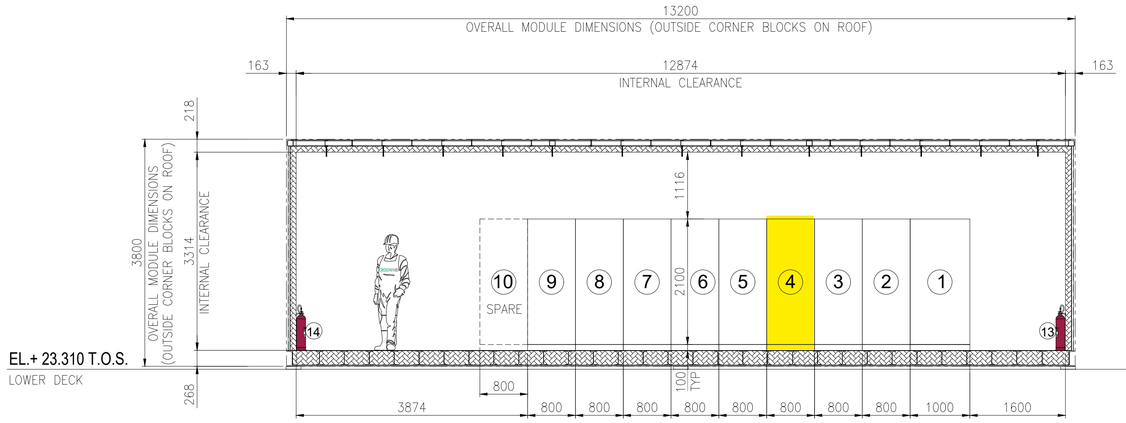
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

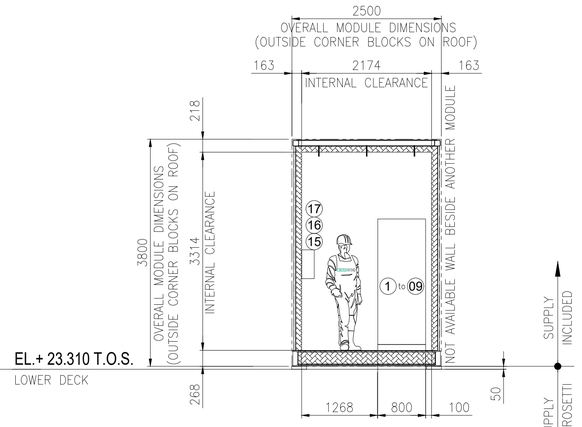
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

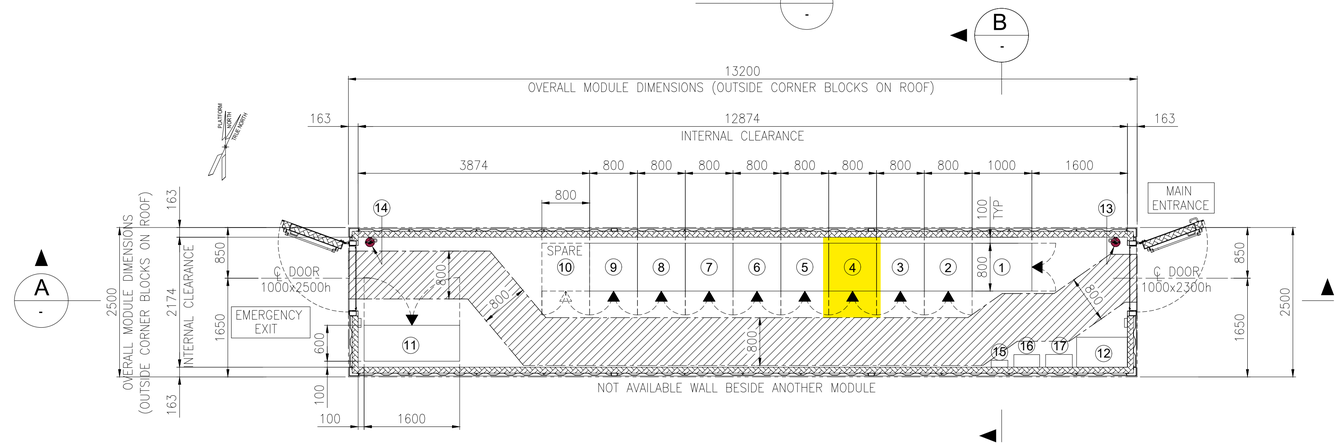
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



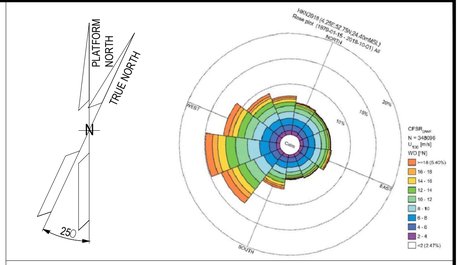
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

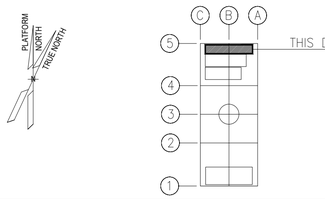
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>

TB-00-JE-BX00
~~TB-B400-PCS-002~~

EQUIPMENT ROOM	FIELD DEVICE	FIELD TERMINAL	CABLE NO	MARSHALLING TERMINAL	
B-100 HV Switch Gear Room	B100-TDC-001	1 WH, 2 BK	C-B100-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	1 WH, 2 BK	B100-TDC-001
	B100-TDC-002	1 WH, 2 BK	C-B100-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	3 WH, 4 BK	B100-TDC-002
	B100-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B100-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	5 WH, 6 BK, 7 WH, 8 BK	B100-TIR-001_PS (12Vdc)
B-200 LV Switch Gear Room	B200-TDC-001	1 WH, 2 BK	C-B200-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	9 WH, 10 BK	B200-TDC-001
	B200-TDC-002	1 WH, 2 BK	C-B200-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	11 WH, 12 BK	B200-TDC-002
	B200-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B200-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	13 WH, 14 BK, 15 WH, 16 BK	B200-TIR-001_PS (12Vdc)
B-300 UPS Room	B300-TDC-001	1 WH, 2 BK	C-B300-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	17 WH, 18 BK	B300-TDC-001
	B300-TDC-002	1 WH, 2 BK	C-B300-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	19 WH, 20 BK	B300-TDC-002
	B300-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B300-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	21 WH, 22 BK, 23 WH, 24 BK	B300-TIR-001_PS (12Vdc)
B-400 ITER	B400-TDC-001	1 WH, 2 BK	C-B400-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	25 WH, 26 BK	B400-TDC-001
	B400-TDC-002	1 WH, 2 BK	C-B400-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	27 WH, 28 BK	B400-TDC-002
	B400-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B400-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	29 WH, 30 BK, 31 WH, 32 BK	B400-TIR-001_PS (12Vdc)

All cables: NOTE-2. PR1 / PR2 as shown. Shield Bar ◁ — —

Shield Bar — I.E.

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

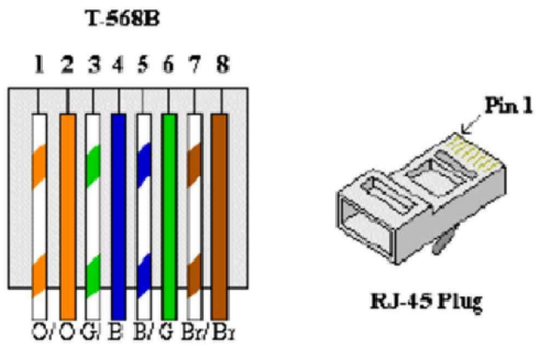
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



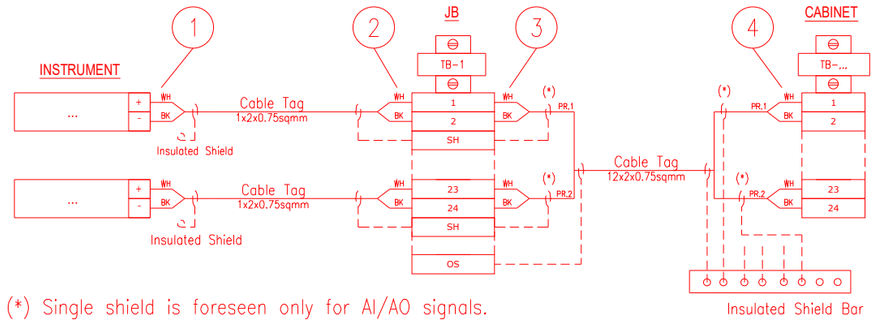
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

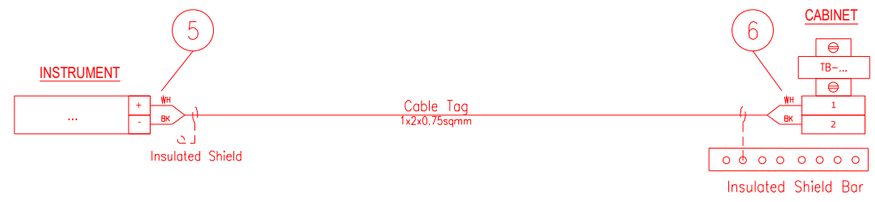
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

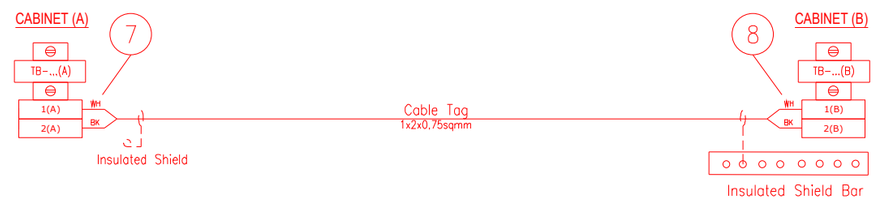
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

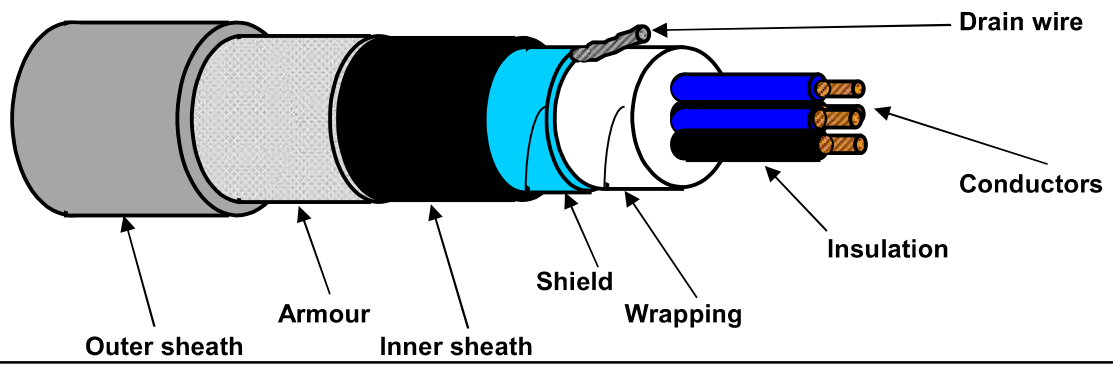
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Stan	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B200-TDC-002/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B200-TDC-002	Proximity Switch	Lower Deck (B-200)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				I-MCT-201 / B-200-SEC-2A / L-SEC-5 / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	C-B200-TIR-001/B400-PCS-002	:	MOTION DETECTOR / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-200/LD_B-400	
TASK	code	C10002313	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cu-XLPE-IS-OS-LSZH-SWB-LSZH	Cores/Size mm²	2X2X0,75 mm2	Color	GREY
From	B200-TIR-001	To	B400-PCS-002		

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	OK
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		16	Ω
	SCREEN		1,6	Ω
	EARTH		NA	Ω
	ARMr		1,6	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

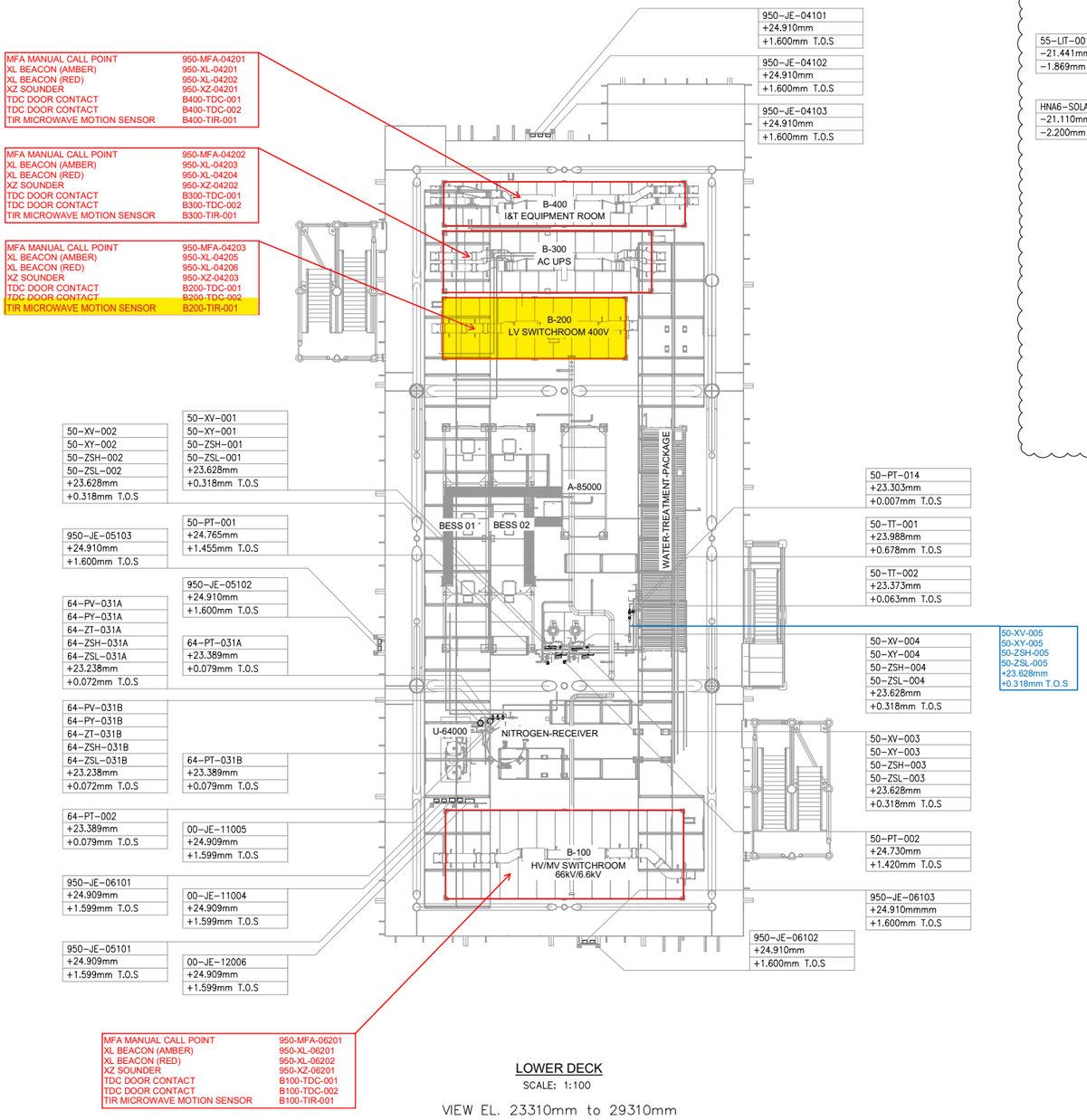
TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 5: refer to PL C30000680

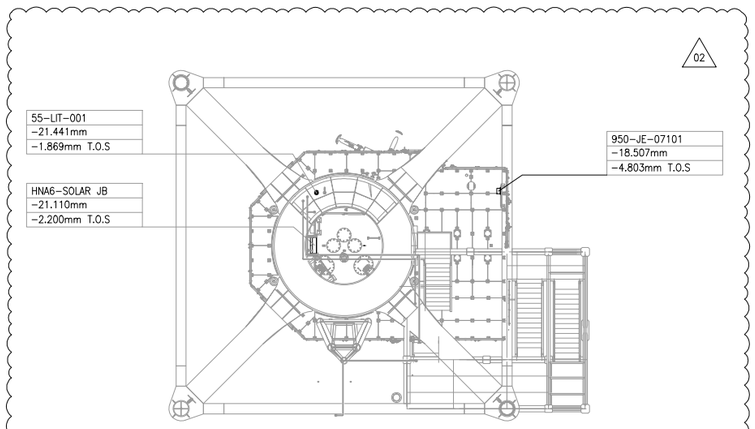
Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-09	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-09T13:41:29.263Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-11T15:58:10.402Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

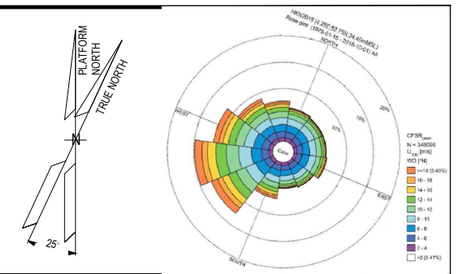
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

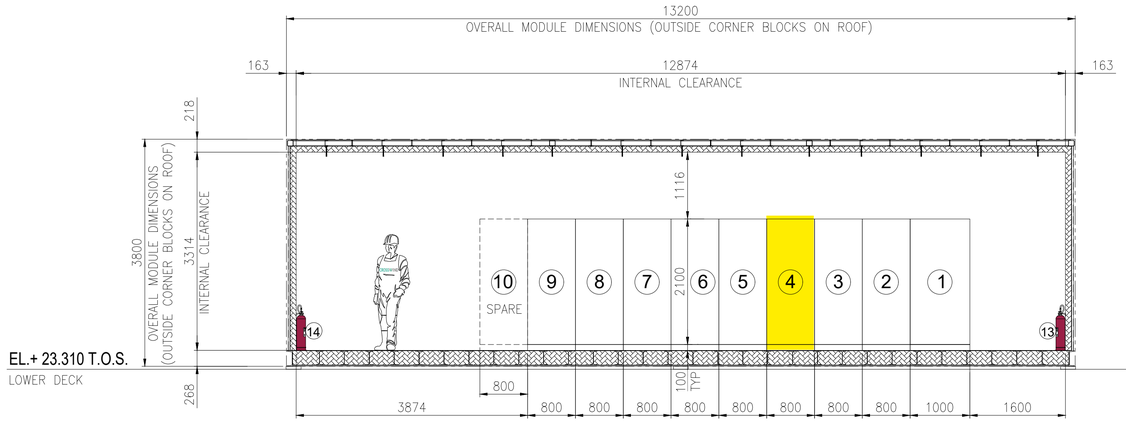
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

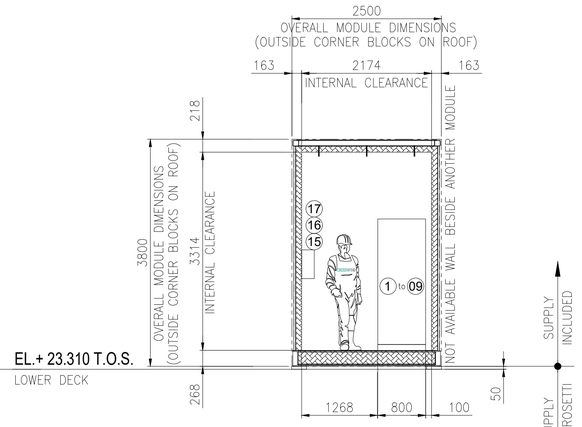
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

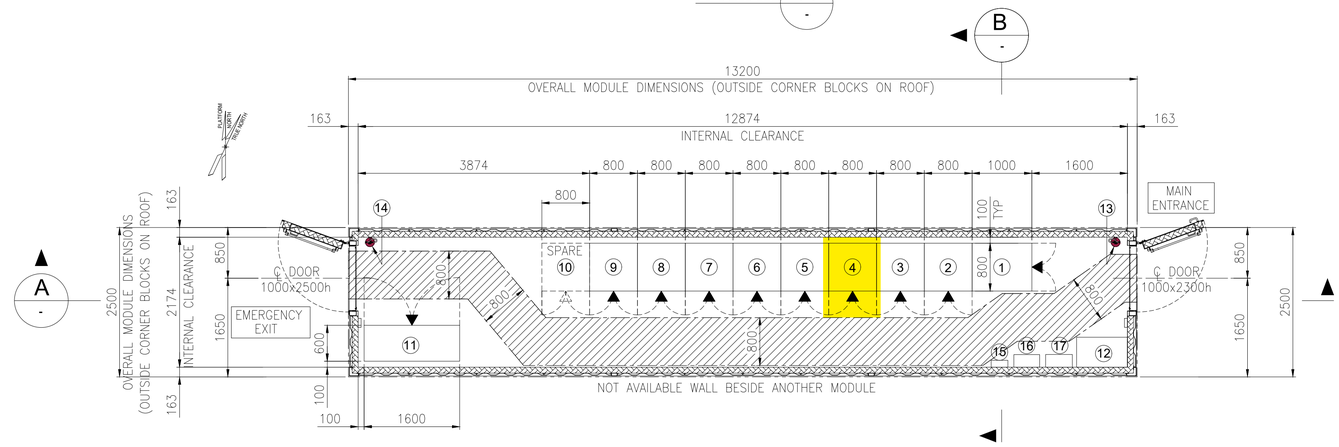
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



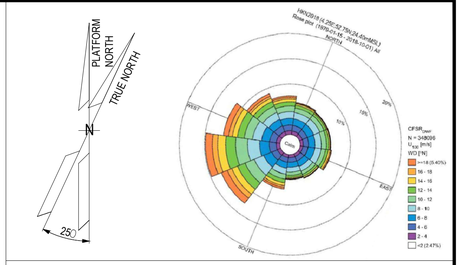
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

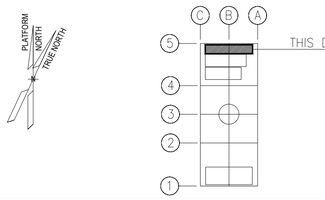
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>

TB-00-JE-BX00
~~TB-B400-PCS-002~~

EQUIPMENT ROOM		CABLE NO		MARSHALLING CABINET	
B-100 HV Switch Gear Room	B100-TDC-001	C-B100-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B100-TDC-001	
	B100-TDC-002	C-B100-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B100-TDC-002	
	B100-TIR-001	C-B100-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		B100-TIR-001	
				B100-TIR-001_PS	(12Vdc)
B-200 LV Switch Gear Room	B200-TDC-001	C-B200-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B200-TDC-001	
	B200-TDC-002	C-B200-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B200-TDC-002	
	B200-TIR-001	C-B200-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		B200-TIR-001	
				B200-TIR-001_PS	(12Vdc)
B-300 UPS Room	B300-TDC-001	C-B300-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B300-TDC-001	
	B300-TDC-002	C-B300-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B300-TDC-002	
	B300-TIR-001	C-B300-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		B300-TIR-001	
				B300-TIR-001_PS	(12Vdc)
B-400 ITER	B400-TDC-001	C-B400-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B400-TDC-001	
	B400-TDC-002	C-B400-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS		B400-TDC-002	
	B400-TIR-001	C-B400-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS		B400-TIR-001	
				B400-TIR-001_PS	(12Vdc)

Shield Bar — I.E.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

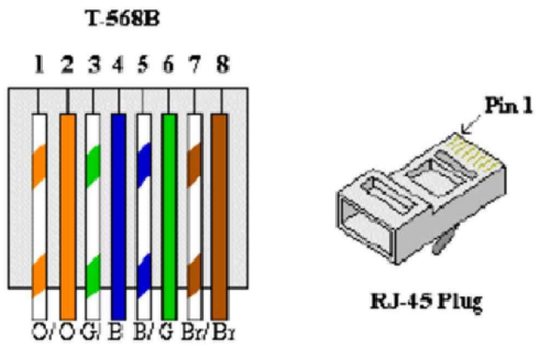
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



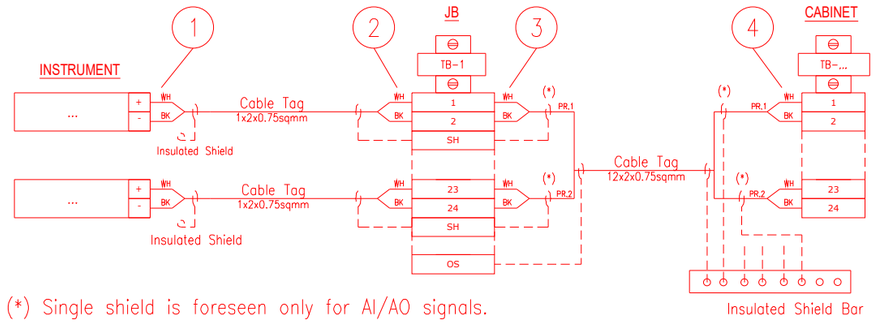
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

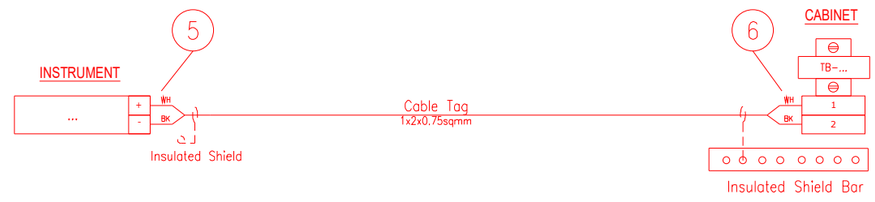
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

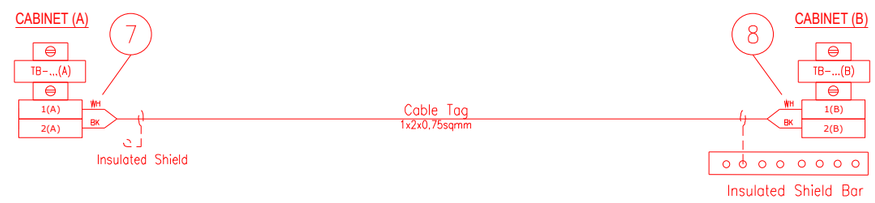
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

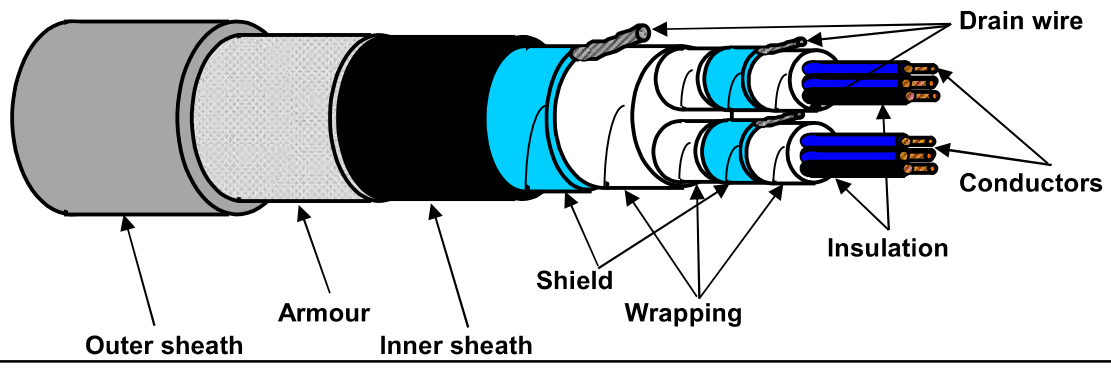
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Stan	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B200-TIR-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B200-TIR-001	Motion Detector	Lower Deck (B-200)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV02-2X2X0,75	Cable Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 1SO/250V (300V) 2x2x0,75mm² - Grey	M20	T2_M20_Double			n.a.				I-MCT-201 / B-200-SEC-2A / L-SEC-5 / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 150/250 V (300 V)

2X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black (each core NUMBERED for PAIR identification)**	
Pair Assembling :	13/1mt	
Pair Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Pair Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Shield Insulation :	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Total Assembling :	7/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant, Average Thickness 1,3 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 2X2X0,75 SQMM - XLPE/IS/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(11,4 ± 10%) mm	
Over armour diameter :	(12,6 ± 10%) mm	
Outer diameter :	(15,2 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	C-B300-TDC-001/B400-PCS-002	:	PROXIMITY SWITCH / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-300/LD_B-400	
TASK	code	C10002314	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cores/Size mm²	Color
Cu-XLPE-OS-LSZH-SWB-LSZH	1X2X0,75 mm2	GREY

From B300-TDC-001 To B400-PCS-002

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	PL
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH	>999	MΩ
	CORE to CORE	>999	MΩ
	CORE to SCREEN	>999	MΩ
	CORE to ARMr	>999	MΩ
	SCREEN to EARTH	>999	MΩ
	SCREEN to ARMr	>999	MΩ
CONTINUITY	CORES	1,0	Ω
	SCREEN	1,0	Ω
	EARTH	N/A	Ω
	ARMr	1,0	Ω
	TEST VOLTS	500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 5: refer to PL C30000679

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:05:48.497Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T16:06:31.076Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

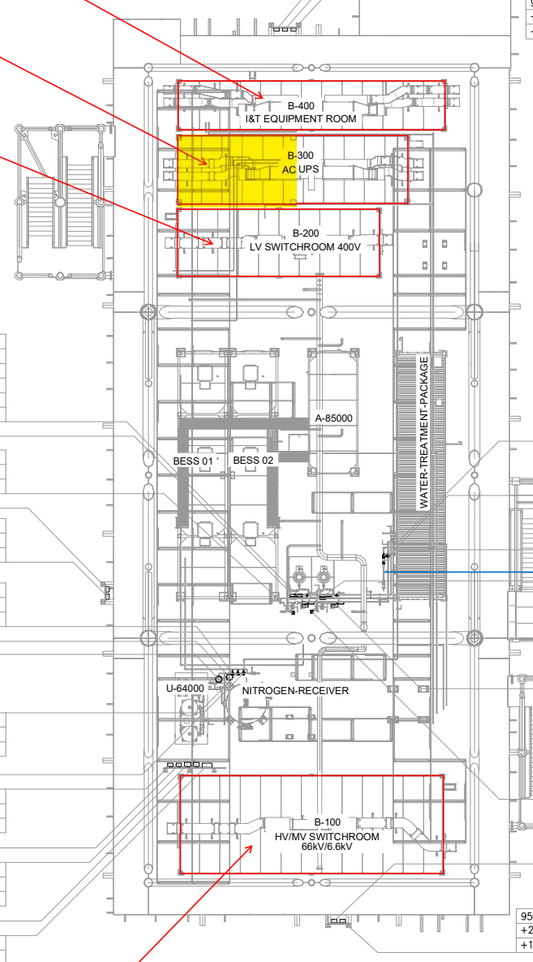
MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S



50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001
50-XY-001
50-ZSH-001
50-ZSL-001
+23.628mm
+0.318mm T.O.S

950-JE-05103
+24.910mm
+1.600mm T.O.S

50-PT-001
+24.765mm
+1.455mm T.O.S

950-JE-05102
+24.910mm
+1.600mm T.O.S

64-PV-031A
64-PY-031A
64-ZT-031A
64-ZSH-031A
64-ZSL-031A
+23.238mm
+0.072mm T.O.S

64-PT-031A
+23.389mm
+0.079mm T.O.S

64-PV-031B
64-PY-031B
64-ZT-031B
64-ZSH-031B
64-ZSL-031B
+23.238mm
+0.072mm T.O.S

64-PT-031B
+23.389mm
+0.079mm T.O.S

64-PT-002
+23.389mm
+0.079mm T.O.S

00-JE-11005
+24.909mm
+1.599mm T.O.S

950-JE-06101
+24.909mm
+1.599mm T.O.S

00-JE-11004
+24.909mm
+1.599mm T.O.S

950-JE-05101
+24.909mm
+1.599mm T.O.S

00-JE-12006
+24.909mm
+1.599mm T.O.S

50-PT-014
+23.303mm
+0.007mm T.O.S

50-TT-001
+23.988mm
+0.678mm T.O.S

50-TT-002
+23.373mm
+0.063mm T.O.S

50-XV-004
50-XY-004
50-ZSH-004
50-ZSL-004
+23.628mm
+0.318mm T.O.S

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003
50-XY-003
50-ZSH-003
50-ZSL-003
+23.628mm
+0.318mm T.O.S

50-PT-002
+24.730mm
+1.420mm T.O.S

950-JE-06103
+24.910mmmm
+1.600mm T.O.S

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

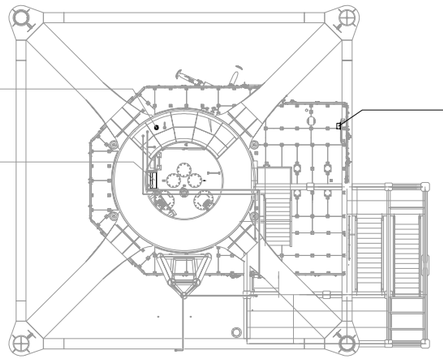
VIEW EL. 23310mm to 29310mm

02

55-LIT-001
-21.441mm
-1.869mm T.O.S

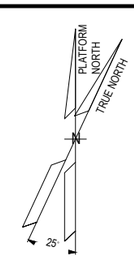
HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

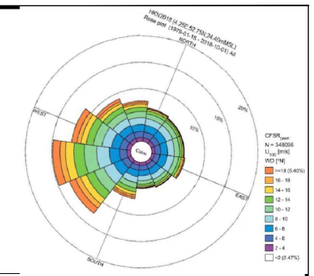
950-JE-07101
-18.507mm
-4.803mm T.O.S



TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

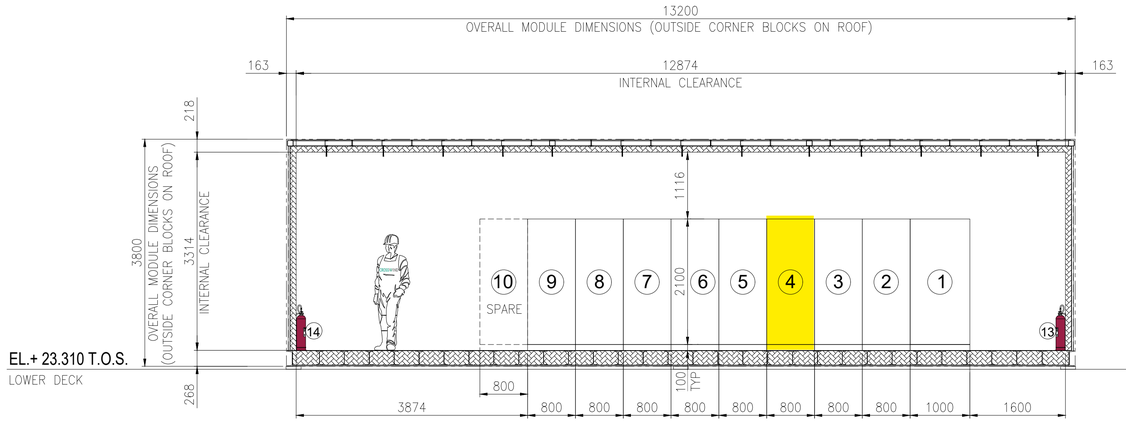
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

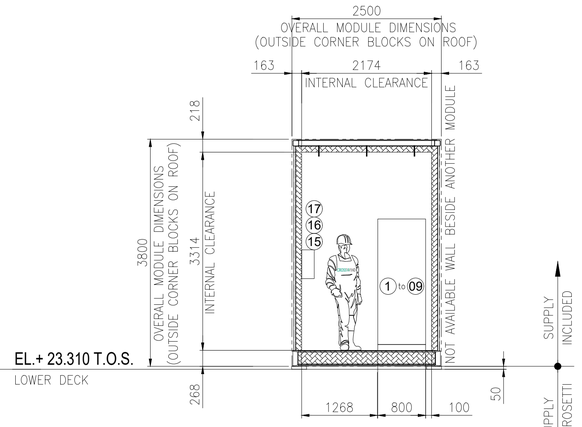
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

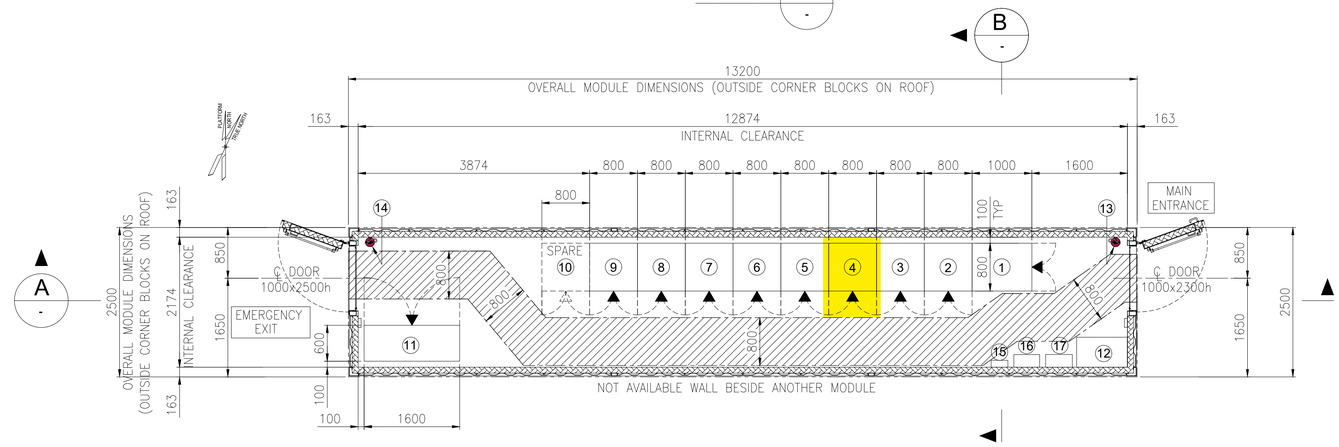
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



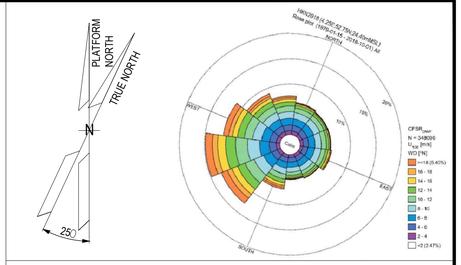
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

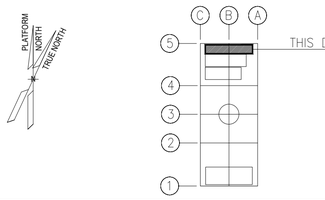
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

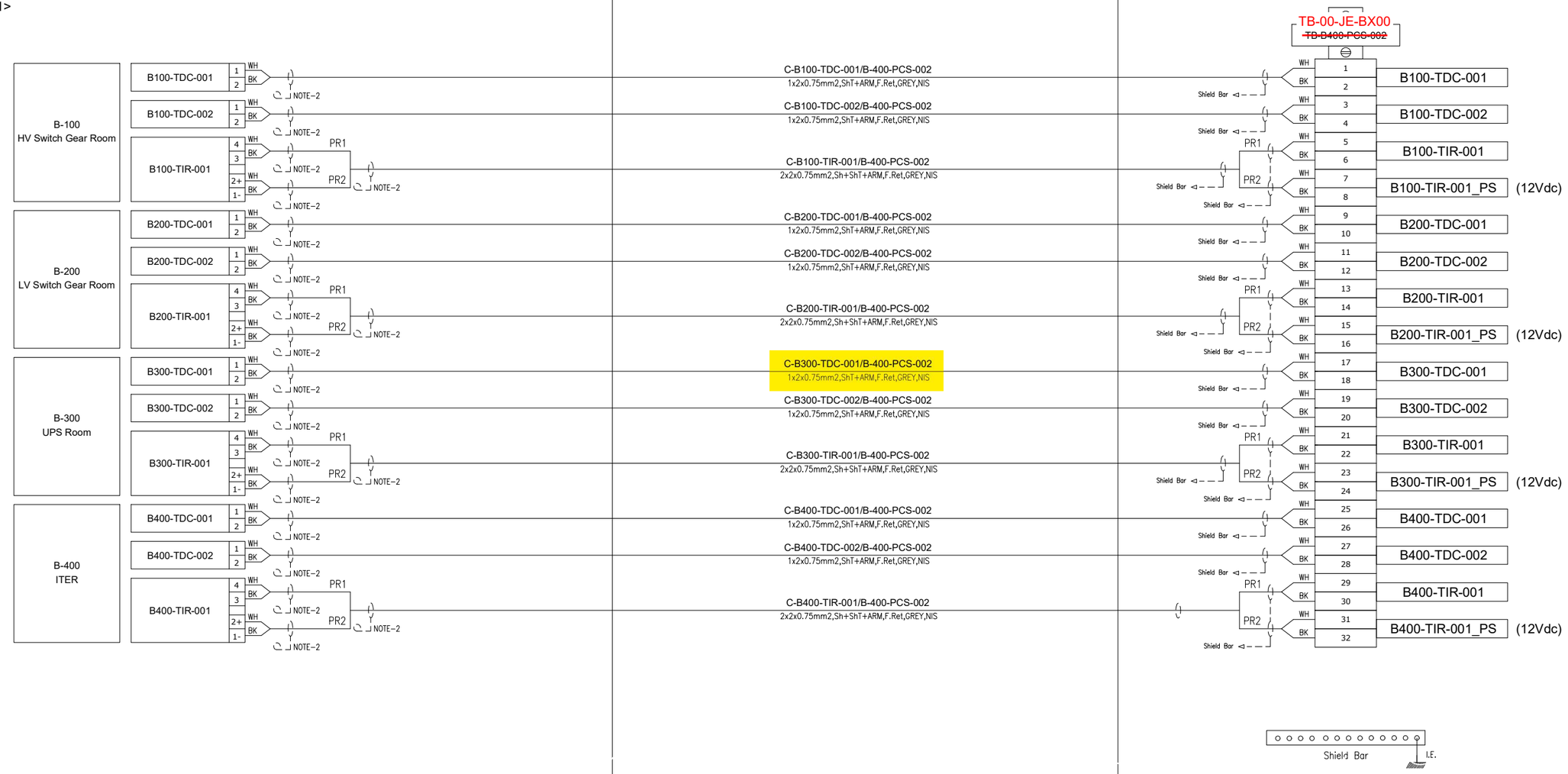
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DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

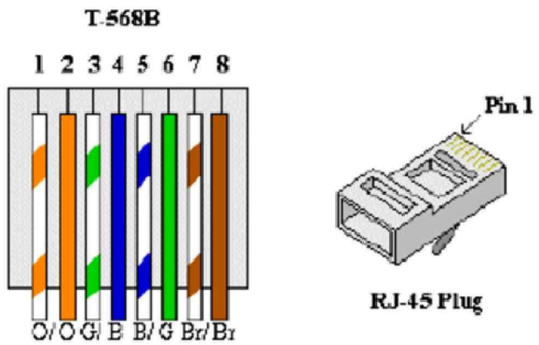
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



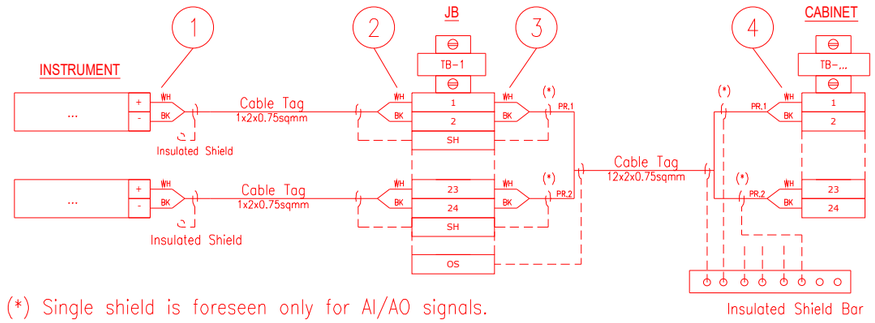
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

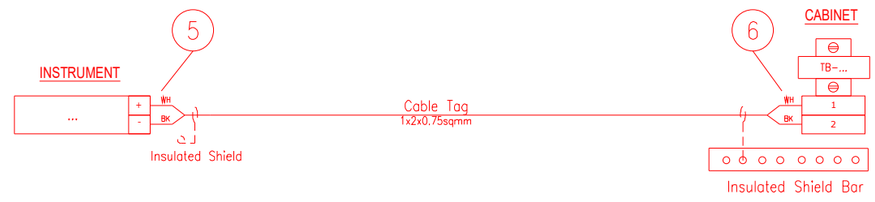
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

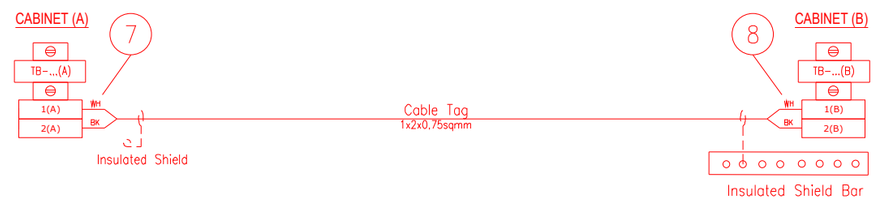
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

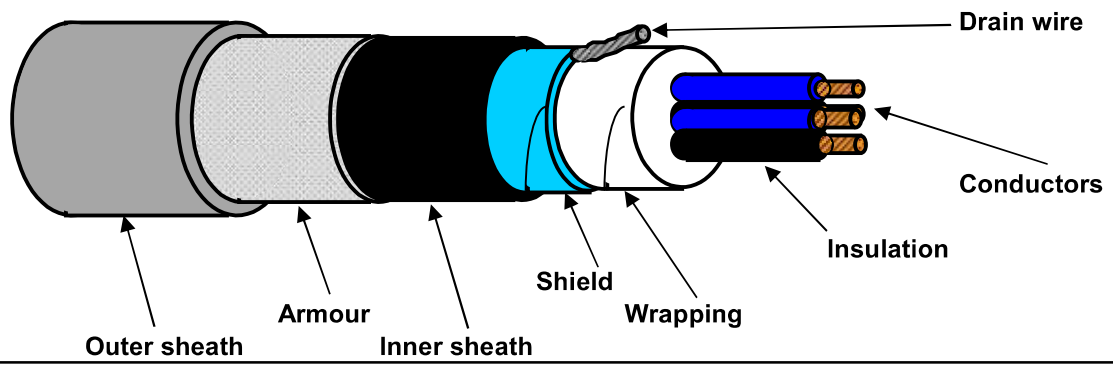
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File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Stan	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B300-TDC-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B300-TDC-001	Proximity Switch	Lower Deck (B-300)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				I-MCT-301 / B-300-SEC-1B / B-300-SEC-1A / L-SEC-4 / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	C-B300-TDC-002/B400-PCS-002	:	PROXIMITY SWITCH / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-300/LD_B-400	
TASK	code	C10002315	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cores/Size mm²	Color
Cu-XLPE-OS-LSZH-SWB-LSZH	1X2X0,75 mm2	GREY

From B300-TDC-002 To B400-PCS-002

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	PL
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		1,0	Ω
	SCREEN		1,0	Ω
	EARTH		N/A	Ω
	ARMr		1,0	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

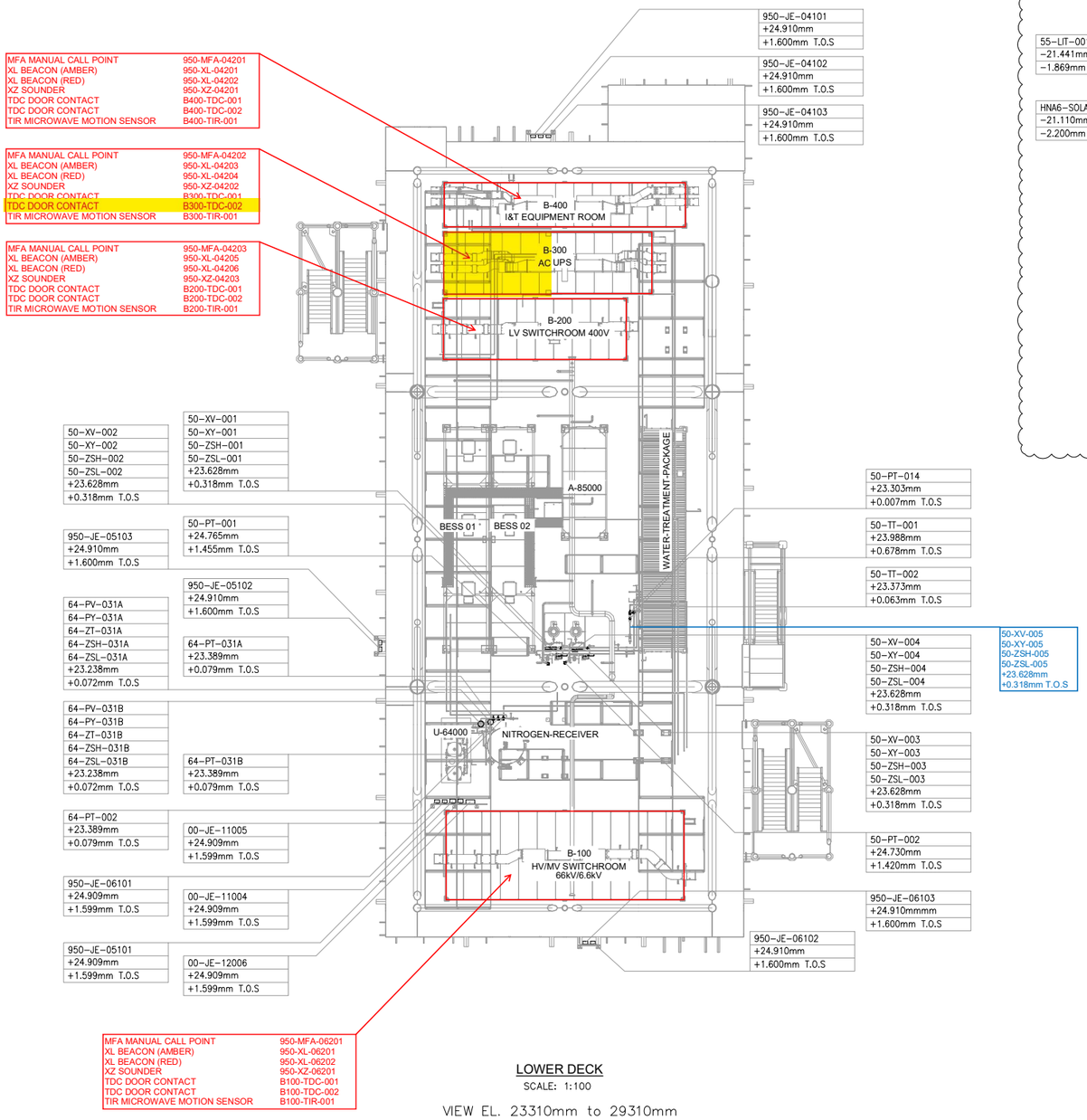
TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 4: refer to PL C30000679

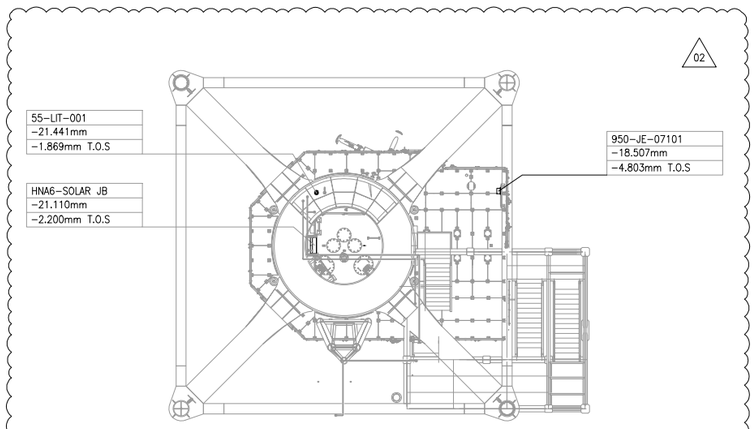
Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:06:03.181Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T15:34:48.980Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

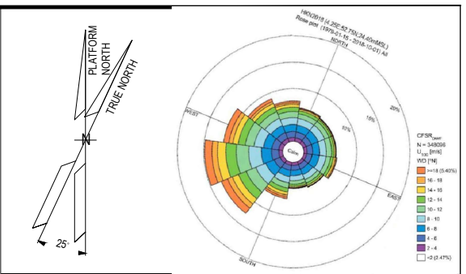
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

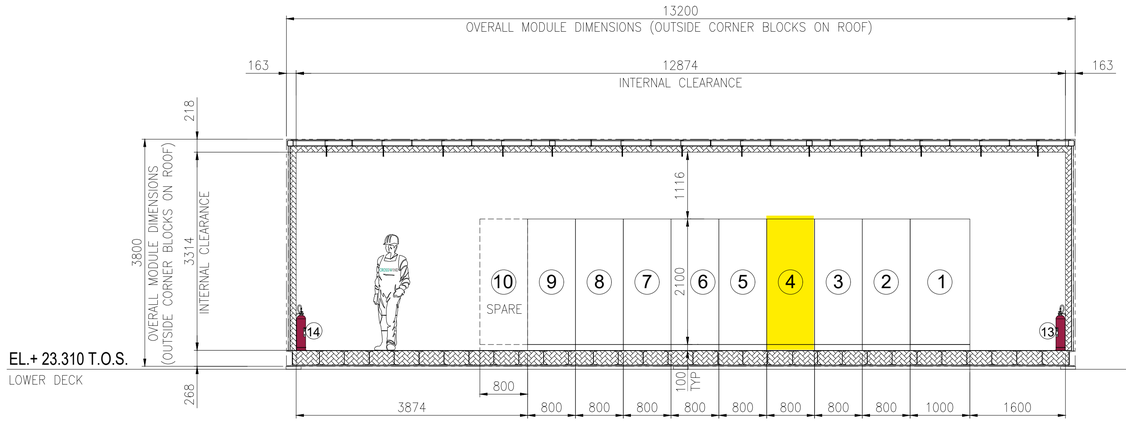
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

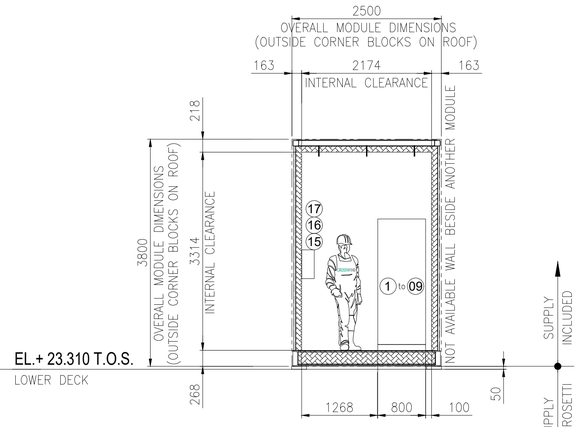
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

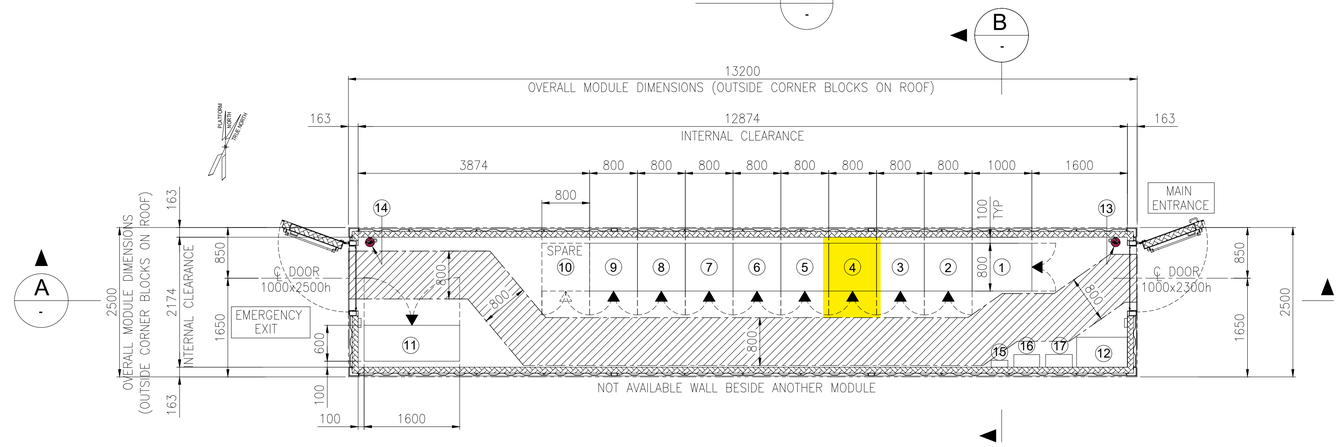
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



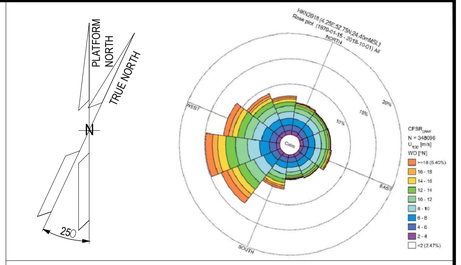
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

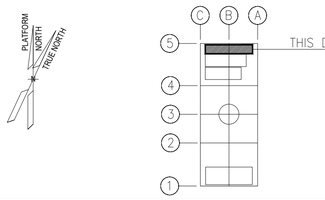
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

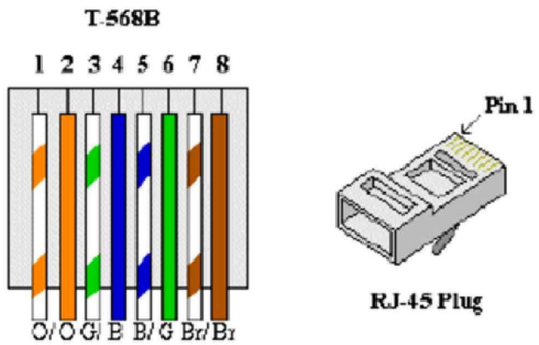
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



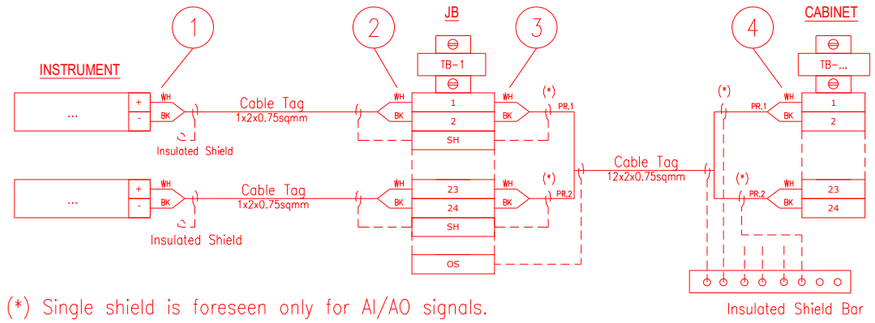
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

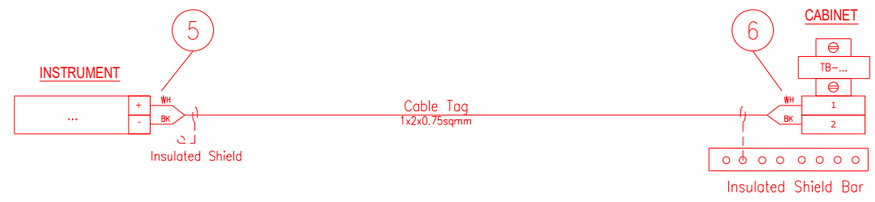
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

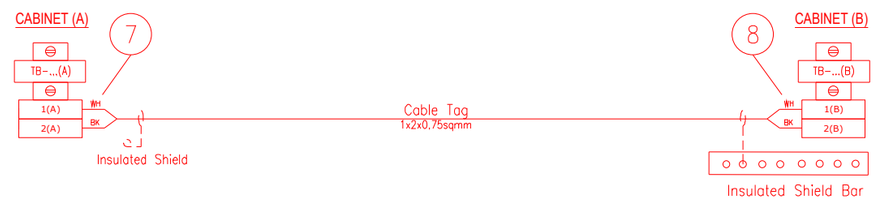
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

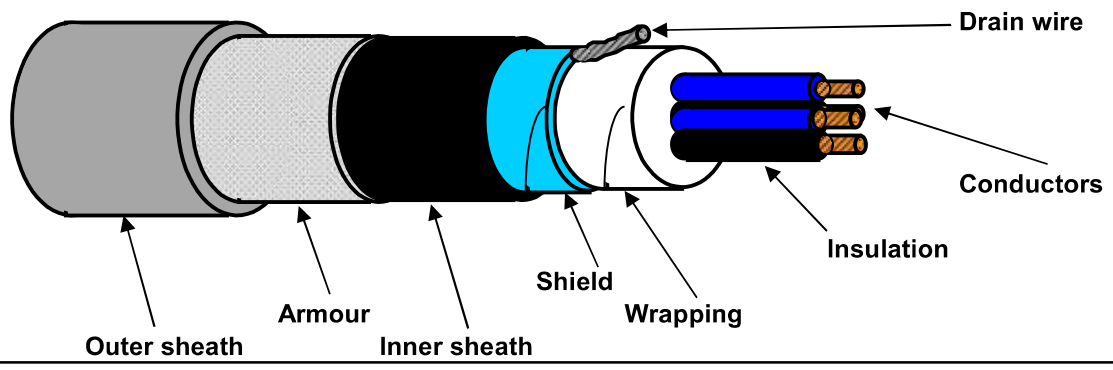
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Star	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B300-TDC-002/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B300-TDC-002	Proximity Switch	Lower Deck (B-300)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				I-MCT-301 / B-300-SEC-1D / B-300-SEC-1C / B-300-SEC-1A / L-SEC-4 / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO — CROSSWIND

ITEM	Tag	C-B300-TIR-001/B400-PCS-002	: MOTION DETECTOR / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091		
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation	Module	LD_B-300/LD_B-400		
TASK	code	C10002316	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX10

Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cu-XLPE-IS-OS-LSZH-SWB-LSZH	Cores/Size mm²	2X2X0,75 mm2	Color	GREY
From	B300-TIR-001	To	B400-PCS-002		

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	Note
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	PL
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	OK
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH		>999	MΩ
	CORE to CORE		>999	MΩ
	CORE to SCREEN		>999	MΩ
	CORE to ARMr		>999	MΩ
	SCREEN to EARTH		>999	MΩ
	SCREEN to ARMr		>999	MΩ
CONTINUITY	CORES		1,0	Ω
	SCREEN		1,0	Ω
	EARTH		N/A	Ω
	ARMr		1,0	Ω
	TEST VOLTS		500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments Nota 4: refer to PL C30000679

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	Digitaly signed by Francesco Zucca 2024-12-07T08:06:16.883Z	Digitaly signed by Luca Mussi 2024-12-10T15:38:55.045Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102	
+24.910mm	
+1.600mm T.O.S	

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

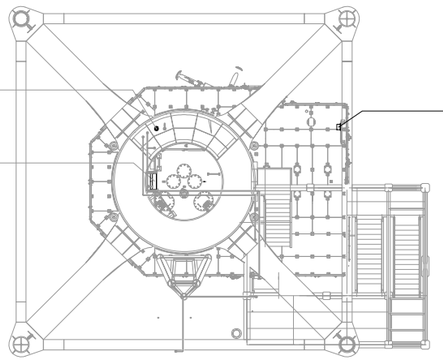
VIEW EL. 23310mm to 29310mm

02

55-LIT-001	
-21.441mm	
-1.869mm T.O.S	

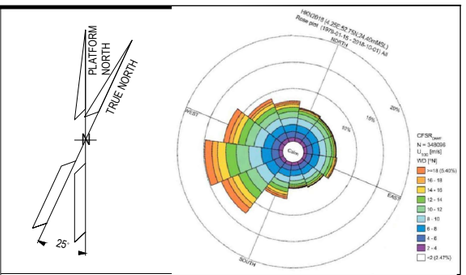
HNA6-SOLAR JB	
-21.110mm	
-2.200mm T.O.S	

950-JE-07101	
-18.507mm	
-4.803mm T.O.S	



TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

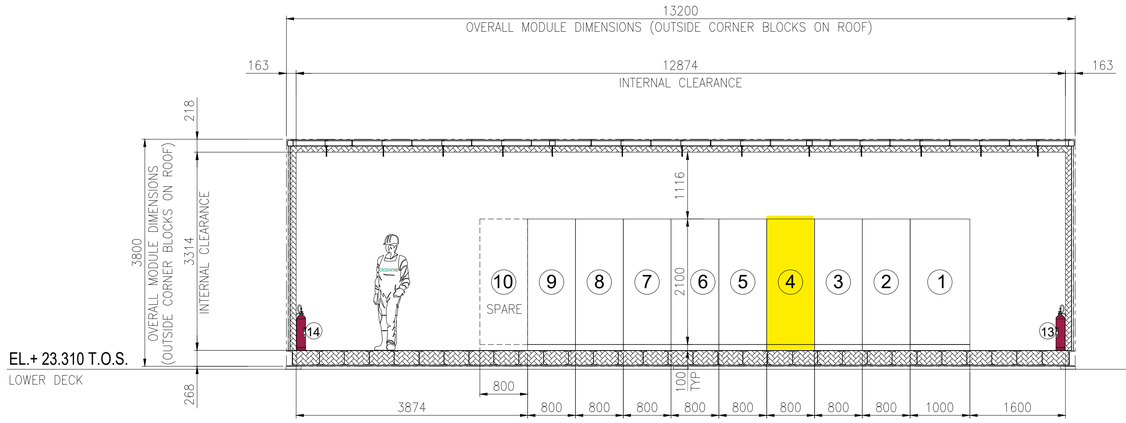
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

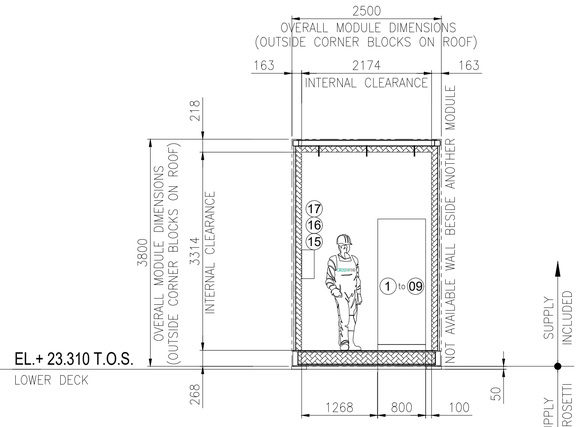
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

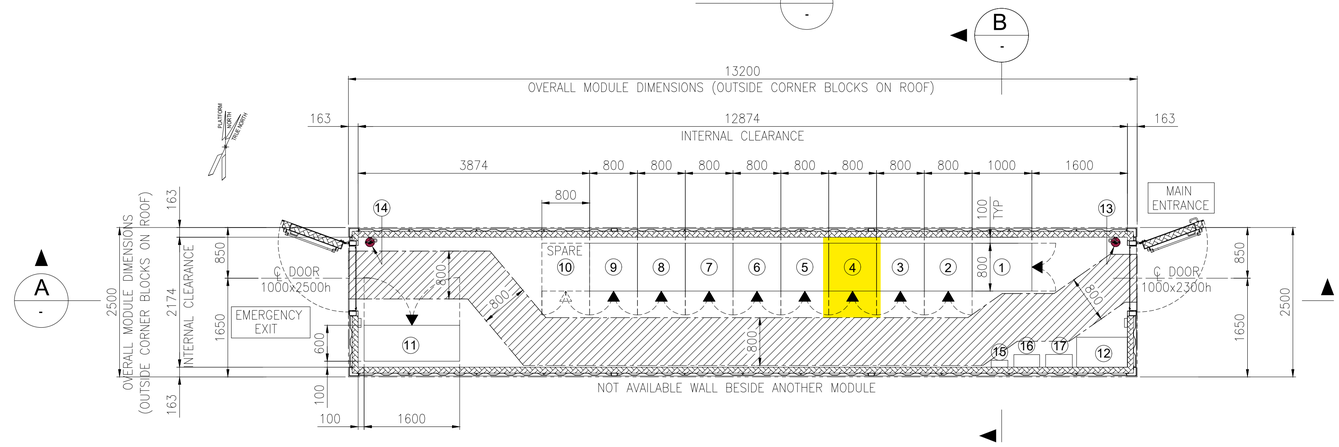
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



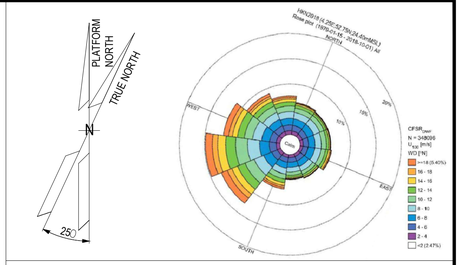
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

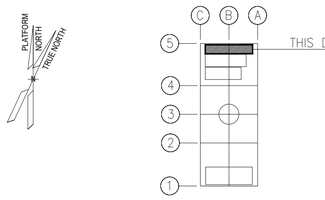
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>

TB-00-JE-BX00
~~TB-B400-PCS-002~~

EQUIPMENT ROOM	FIELD CABLE	FIELD WIRE	CABLE NO	MARSHALLING CABINET B400-PCS-002		
B-100 HV Switch Gear Room	B100-TDC-001	1 WH, 2 BK	C-B100-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	1 WH, 2 BK	B100-TDC-001	
	B100-TDC-002	1 WH, 2 BK	C-B100-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	3 WH, 4 BK	B100-TDC-002	
	B100-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B100-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	5 WH, 6 BK, 7 WH, 8 BK	B100-TIR-001 B100-TIR-001_PS	(12Vdc)
B-200 LV Switch Gear Room	B200-TDC-001	1 WH, 2 BK	C-B200-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	9 WH, 10 BK	B200-TDC-001	
	B200-TDC-002	1 WH, 2 BK	C-B200-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	11 WH, 12 BK	B200-TDC-002	
	B200-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B200-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	13 WH, 14 BK, 15 WH, 16 BK	B200-TIR-001 B200-TIR-001_PS	(12Vdc)
B-300 UPS Room	B300-TDC-001	1 WH, 2 BK	C-B300-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	17 WH, 18 BK	B300-TDC-001	
	B300-TDC-002	1 WH, 2 BK	C-B300-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	19 WH, 20 BK	B300-TDC-002	
	B300-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B300-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	21 WH, 22 BK, 23 WH, 24 BK	B300-TIR-001 B300-TIR-001_PS	(12Vdc)
B-400 ITER	B400-TDC-001	1 WH, 2 BK	C-B400-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	25 WH, 26 BK	B400-TDC-001	
	B400-TDC-002	1 WH, 2 BK	C-B400-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	27 WH, 28 BK	B400-TDC-002	
	B400-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B400-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	29 WH, 30 BK, 31 WH, 32 BK	B400-TIR-001 B400-TIR-001_PS	(12Vdc)

All cables: NOTE-2. PR1 / PR2 as shown. Shield Bar ◁ — —

Shield Bar — I.E.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

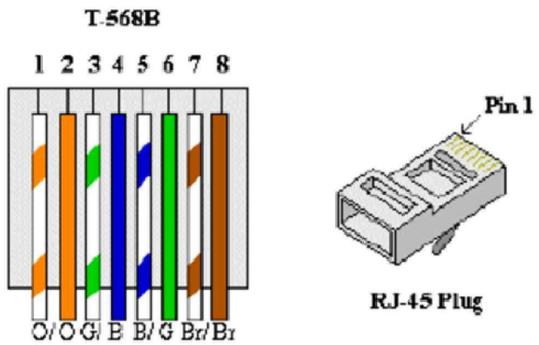
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



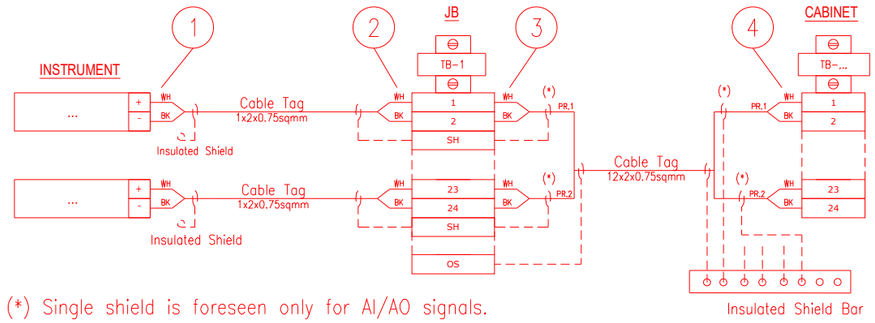
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

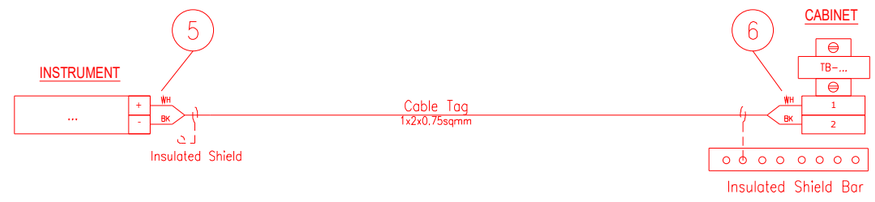
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

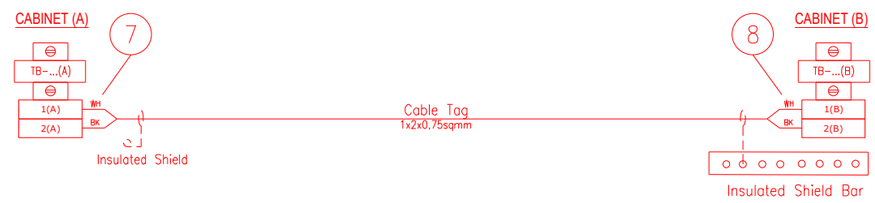
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

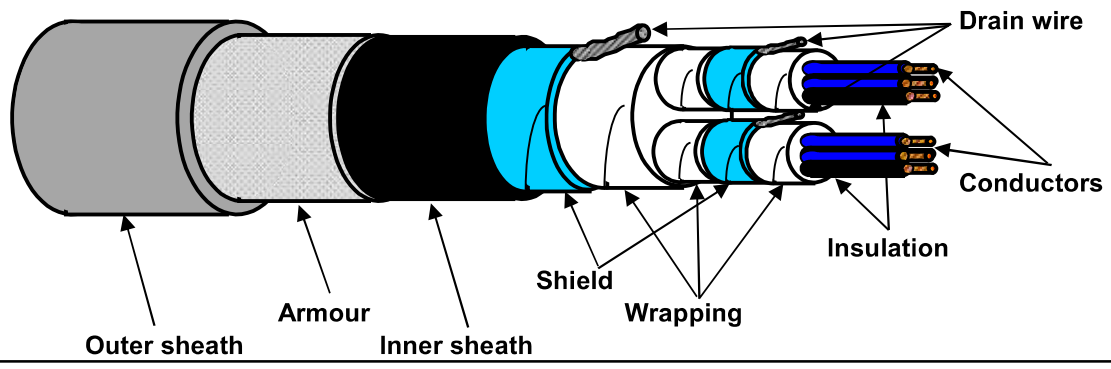
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Stan	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B300-TIR-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B300-TIR-001	Motion Detector	Lower Deck (B-300)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV02-2X2X0,75	Cable Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 150/250V (300V) 2x2x0,75mm² - Grey	M20	T2_M20_Double			n.a.				I-MCT-301 / B-300-SEC-1D / B-300-SEC-1C / B-300-SEC-1A / L-SEC-4 / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / I-MCT-401

Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 150/250 V (300 V)

2X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black (each core NUMBERED for PAIR identification)**	
Pair Assembling :	13/1mt	
Pair Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Pair Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Shield Insulation :	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Total Assembling :	7/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant, Average Thickness 1,3 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 2X2X0,75 SQMM - XLPE/IS/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(11,4 ± 10%) mm	
Over armour diameter :	(12,6 ± 10%) mm	
Outer diameter :	(15,2 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO — CROSSWIND

ITEM	Tag	C-B400-TDC-001/B400-PCS-002	:	PROXIMITY SWITCH / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-400	
TASK	code	C10002317	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cu-XLPE-OS-LSZH-SWB-LSZH	Cores/Size mm²	1X2X0,75 mm2	Color	GREY
From	B400-TDC-001	To	B400-PCS-002		

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	OK
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	PL
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	PL
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH	>999	MΩ
	CORE to CORE	>999	MΩ
	CORE to SCREEN	>999	MΩ
	CORE to ARMr	>999	MΩ
	SCREEN to EARTH	>999	MΩ
	SCREEN to ARMr	>999	MΩ
CONTINUITY	CORES	1,0	Ω
	SCREEN	1,0	Ω
	EARTH	N/A	Ω
	ARMr	1,0	Ω
	TEST VOLTS	500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:06:27.423Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T15:56:10.797Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm

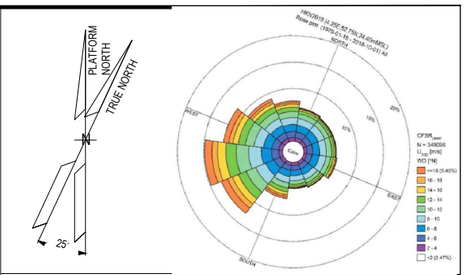
02

55-LIT-001
-21.441mm
-1.869mm T.O.S

HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S

TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

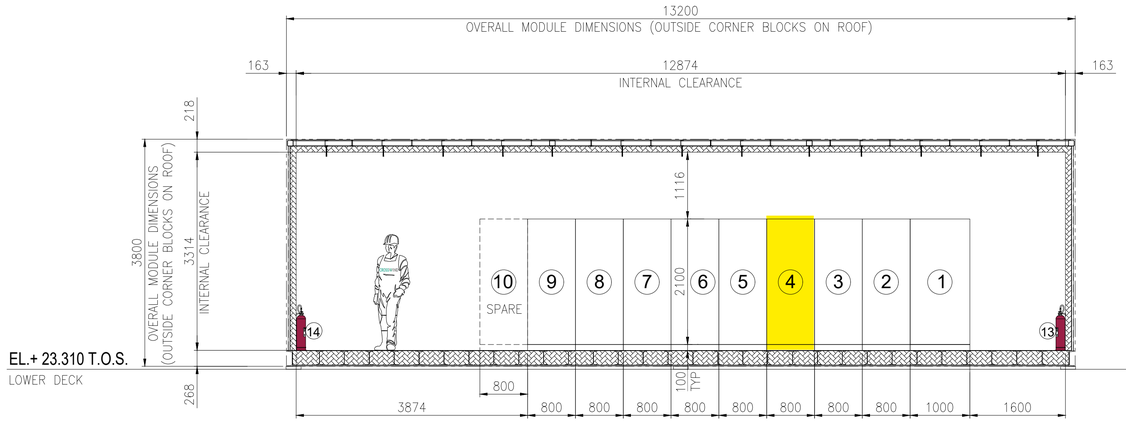
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

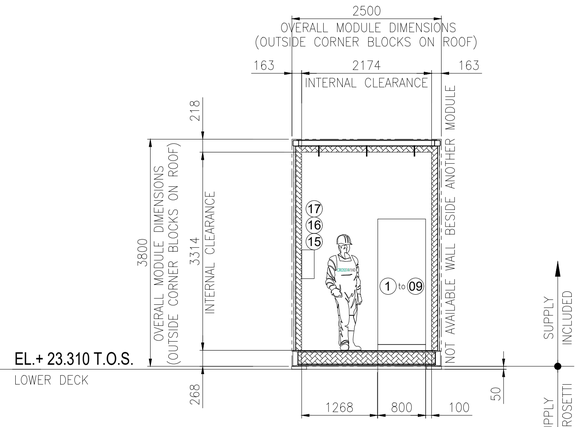
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

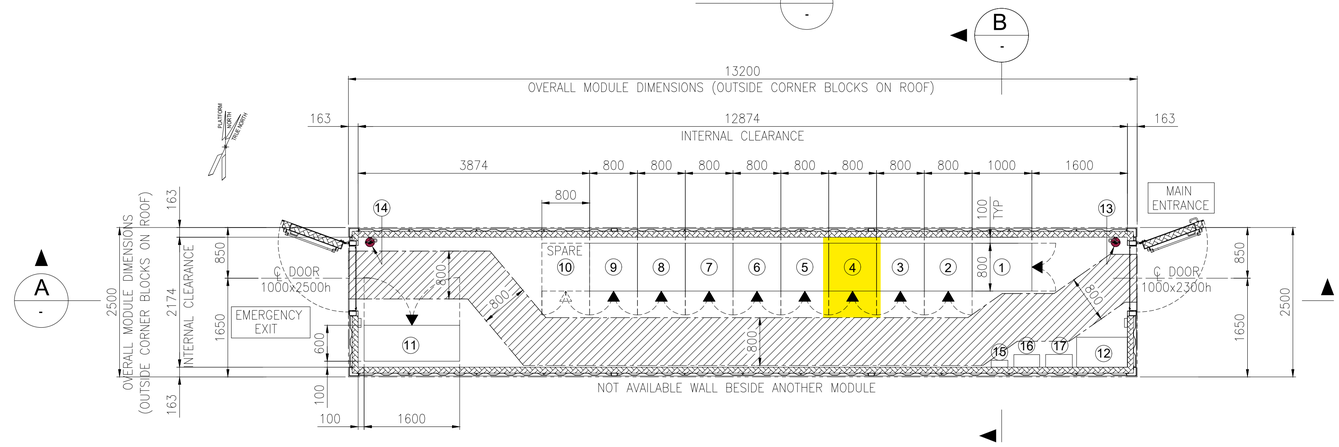
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



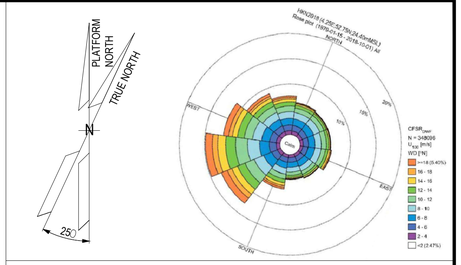
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

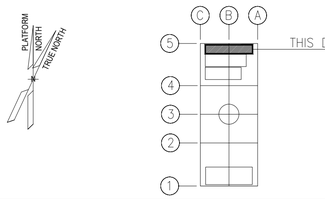
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>

TB-00-JE-BX00
~~TB-B400-PCS-002~~

EQUIPMENT ROOM	FIELD DEVICE	FIELD TERMINAL	CABLE NO	MARSHALLING TERMINAL	
B-100 HV Switch Gear Room	B100-TDC-001	1 WH, 2 BK	C-B100-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	1 WH, 2 BK	B100-TDC-001
	B100-TDC-002	1 WH, 2 BK	C-B100-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	3 WH, 4 BK	B100-TDC-002
	B100-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B100-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	5 WH, 6 BK, 7 WH, 8 BK	B100-TIR-001 B100-TIR-001_PS (12Vdc)
B-200 LV Switch Gear Room	B200-TDC-001	1 WH, 2 BK	C-B200-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	9 WH, 10 BK	B200-TDC-001
	B200-TDC-002	1 WH, 2 BK	C-B200-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	11 WH, 12 BK	B200-TDC-002
	B200-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B200-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	13 WH, 14 BK, 15 WH, 16 BK	B200-TIR-001 B200-TIR-001_PS (12Vdc)
B-300 UPS Room	B300-TDC-001	1 WH, 2 BK	C-B300-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	17 WH, 18 BK	B300-TDC-001
	B300-TDC-002	1 WH, 2 BK	C-B300-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	19 WH, 20 BK	B300-TDC-002
	B300-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B300-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	21 WH, 22 BK, 23 WH, 24 BK	B300-TIR-001 B300-TIR-001_PS (12Vdc)
B-400 ITER	B400-TDC-001	1 WH, 2 BK	C-B400-TDC-001/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	25 WH, 26 BK	B400-TDC-001
	B400-TDC-002	1 WH, 2 BK	C-B400-TDC-002/B-400-PCS-002 1x2x0.75mm2,ShT+ARM,F.Ret,GREY,NIS	27 WH, 28 BK	B400-TDC-002
	B400-TIR-001	4 WH, 3 BK, 2+ WH, 1- BK	C-B400-TIR-001/B-400-PCS-002 2x2x0.75mm2,Sh+ShT+ARM,F.Ret,GREY,NIS	29 WH, 30 BK, 31 WH, 32 BK	B400-TIR-001 B400-TIR-001_PS (12Vdc)

All wires NOTE-2. PR1 / PR2 as shown. Shield Bar ◁ — —

Shield Bar — I.E.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

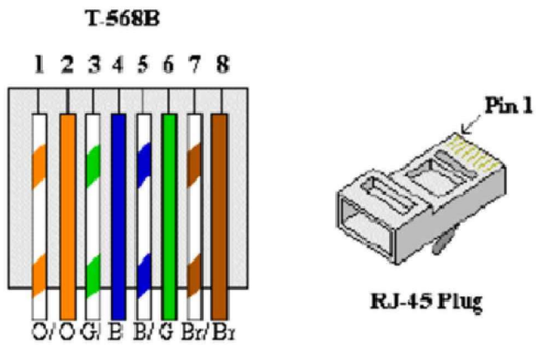
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



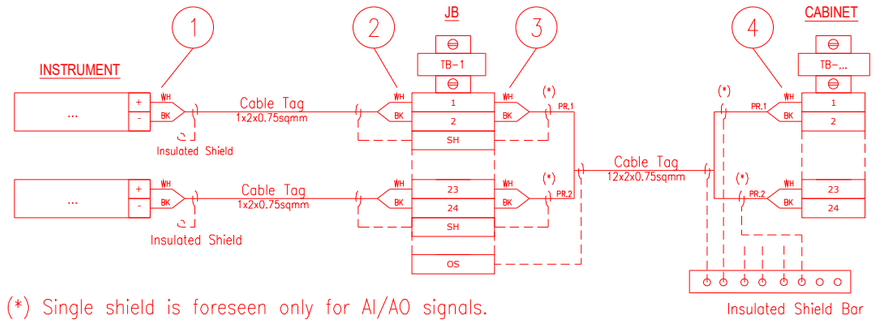
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

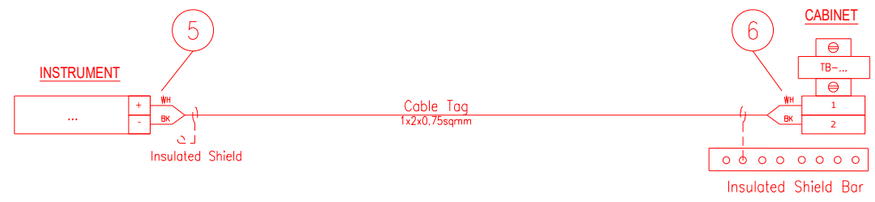
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

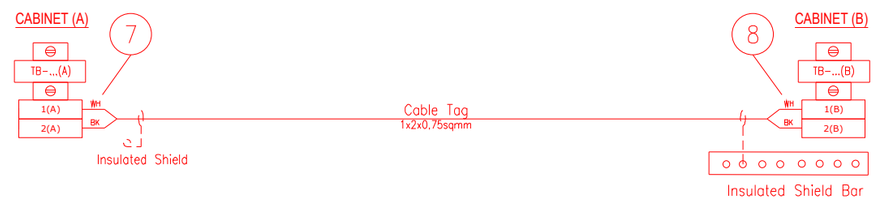
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

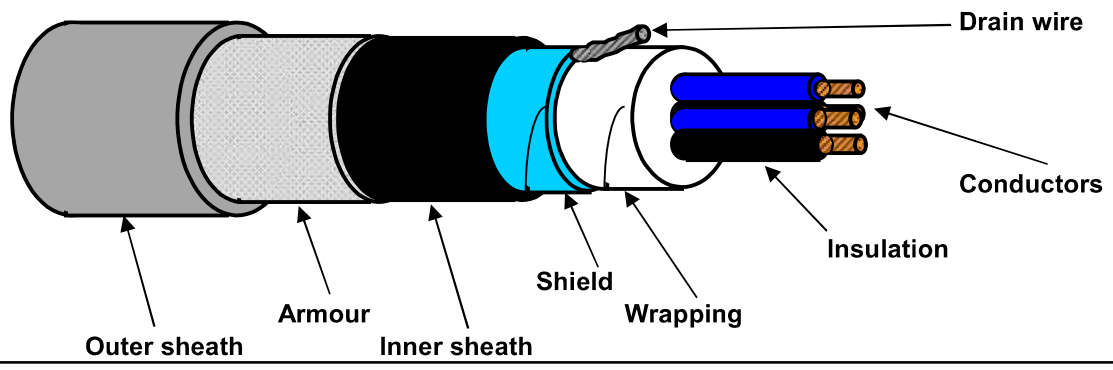
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Stan	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B400-TDC-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B400-TDC-001	Proximity Switch	Lower Deck (B-400)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				B-400-SEC-2A / B-400-SEC-2B / B-400-SEC-2C / B-400-SEC-2D

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ROSETTI MARINO — CROSSWIND

ITEM	Tag	C-B400-TDC-002/B400-PCS-002	:	PROXIMITY SWITCH / MARSHALLING PCS	Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	87-20	:	Process Control System (PCS) - Instrumentation	Module	LD_B-400	
TASK	code	C10002318	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity	CCK	Discipline	Instrumental	Form	CJX10	Multi/Single-Core Instrument Control Cable

CABLE DATA

Type	Cu-XLPE-OS-LSZH-SWB-LSZH	Cores/Size mm²	1X2X0,75 mm2	Color	GREY
From	B400-TDC-002	To	B400-PCS-002		

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	OK
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	PL
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	PL
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH	>999	MΩ
	CORE to CORE	>999	MΩ
	CORE to SCREEN	>999	MΩ
	CORE to ARMr	>999	MΩ
	SCREEN to EARTH	>999	MΩ
	SCREEN to ARMr	>999	MΩ
CONTINUITY	CORES	1,0	Ω
	SCREEN	1,0	Ω
	EARTH	N/A	Ω
	ARMr	1,0	Ω
	TEST VOLTS	500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 Calibration date: N°7722/24 10/07/2024

Comments

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	Digitaly signed by Francesco Zucca 2024-12-07T08:06:43.496Z	Digitaly signed by Luca Mussi 2024-12-10T15:59:52.063Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002
50-XY-002
50-ZSH-002
50-ZSL-002
+23.628mm
+0.318mm T.O.S

50-XV-001
50-XY-001
50-ZSH-001
50-ZSL-001
+23.628mm
+0.318mm T.O.S

950-JE-05103
+24.910mm
+1.600mm T.O.S

50-PT-001
+24.765mm
+1.455mm T.O.S

950-JE-05102
+24.910mm
+1.600mm T.O.S

64-PV-031A
64-PY-031A
64-ZT-031A
64-ZSH-031A
64-ZSL-031A
+23.238mm
+0.072mm T.O.S

64-PT-031A
+23.389mm
+0.079mm T.O.S

64-PV-031B
64-PY-031B
64-ZT-031B
64-ZSH-031B
64-ZSL-031B
+23.238mm
+0.072mm T.O.S

64-PT-031B
+23.389mm
+0.079mm T.O.S

64-PT-002
+23.389mm
+0.079mm T.O.S

00-JE-11005
+24.909mm
+1.599mm T.O.S

950-JE-06101
+24.909mm
+1.599mm T.O.S

00-JE-11004
+24.909mm
+1.599mm T.O.S

950-JE-05101
+24.909mm
+1.599mm T.O.S

00-JE-12006
+24.909mm
+1.599mm T.O.S

50-PT-014
+23.303mm
+0.007mm T.O.S

50-TT-001
+23.988mm
+0.678mm T.O.S

50-TT-002
+23.373mm
+0.063mm T.O.S

50-XV-004
50-XY-004
50-ZSH-004
50-ZSL-004
+23.628mm
+0.318mm T.O.S

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003
50-XY-003
50-ZSH-003
50-ZSL-003
+23.628mm
+0.318mm T.O.S

50-PT-002
+24.730mm
+1.420mm T.O.S

950-JE-06103
+24.910mmmm
+1.600mm T.O.S

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

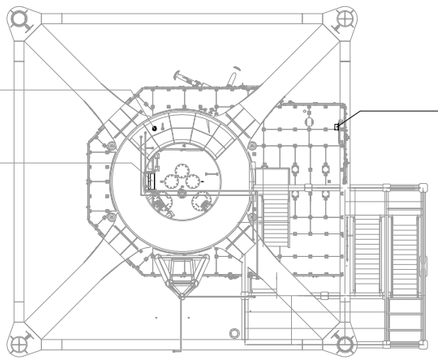
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SCALE: 1:100
VIEW EL. 23310mm to 29310mm

02

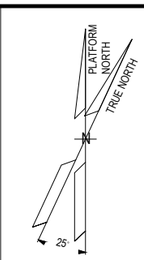
55-LIT-001
-21.441mm
-1.869mm T.O.S

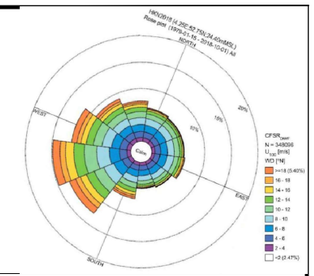
HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

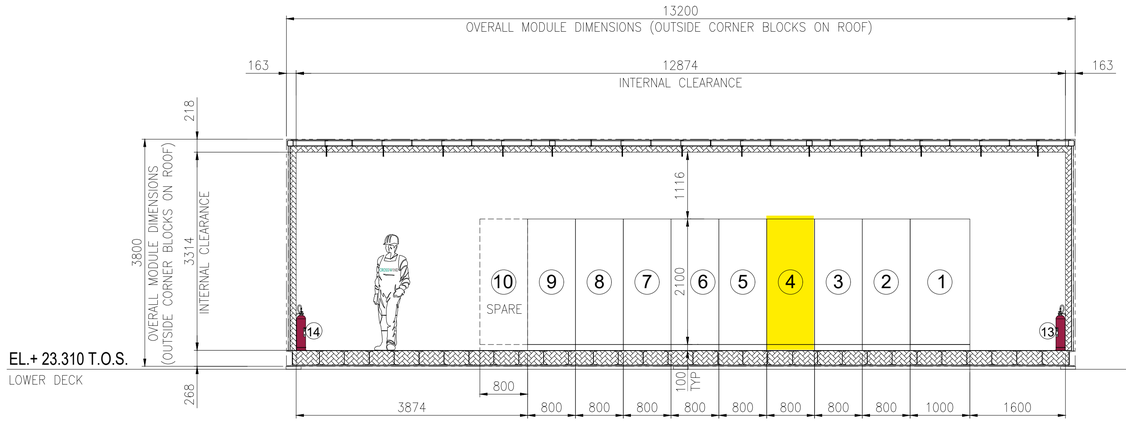
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

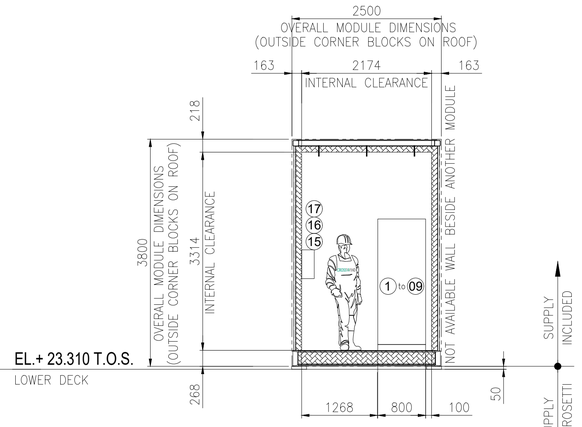
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

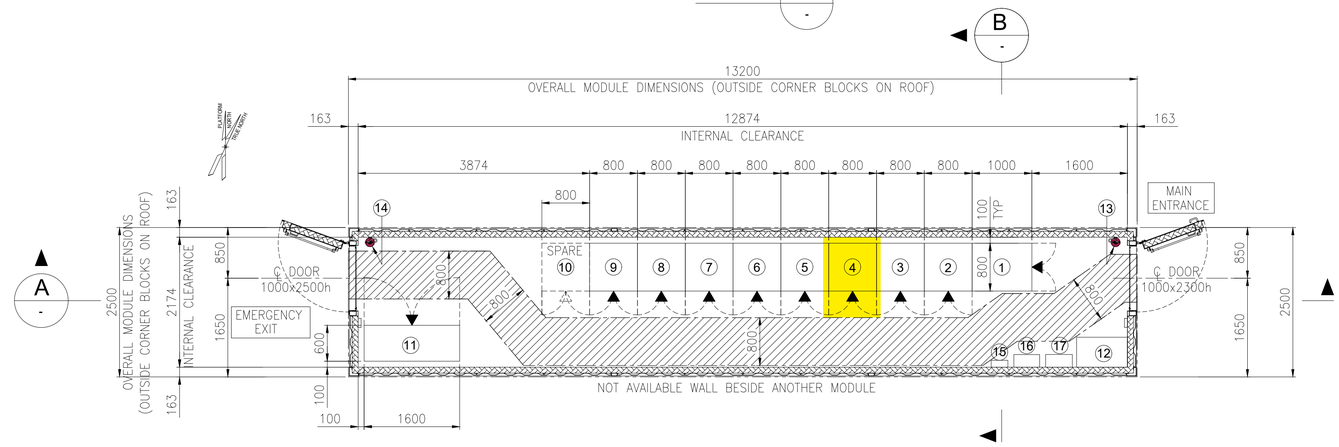
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



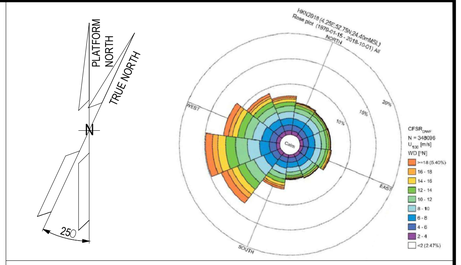
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

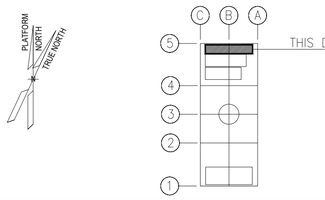
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

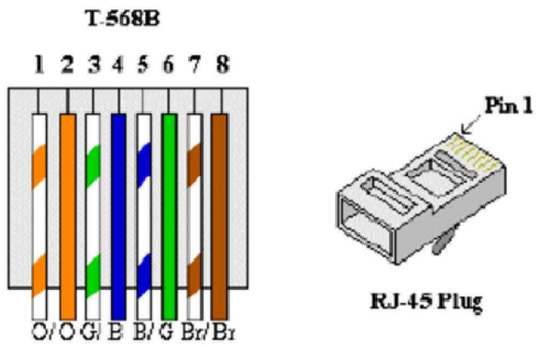
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



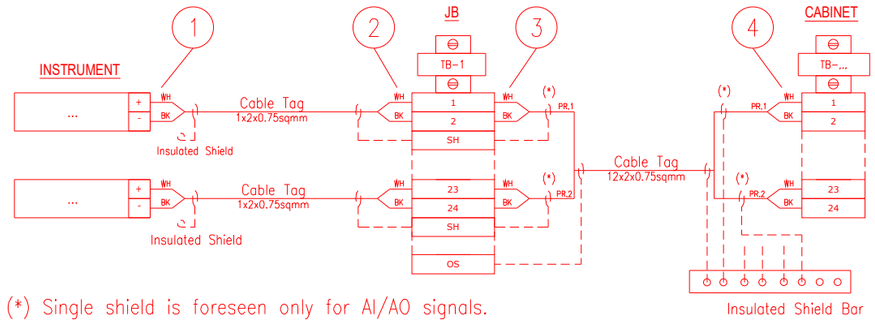
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

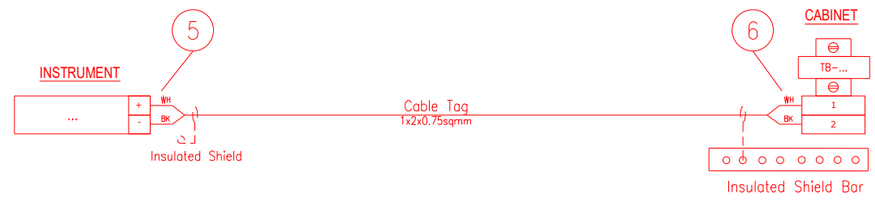
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

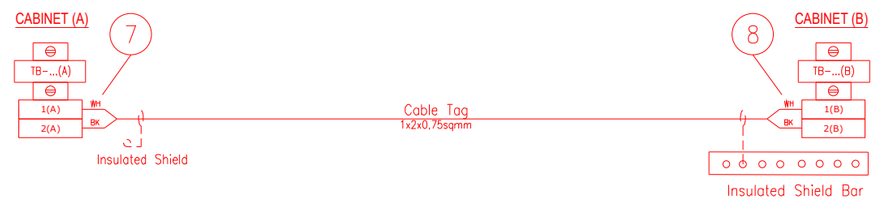
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

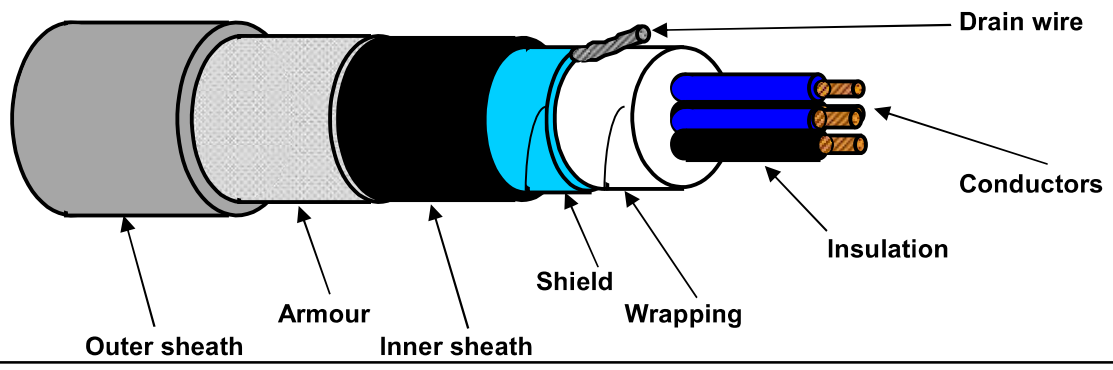
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Stan	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B400-TDC-002/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B400-TDC-002	Proximity Switch	Lower Deck (B-400)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV01-1X2X0,75	Cable Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250V (300V) 1x2x0,75mm² - Grey	M20S	T2_M20S_Double			n.a.				B-400-SEC-2I / B-400-SEC-2G / B-400-SEC-2E / B-400-SEC-2D

Cu Cl.2/XLPE/OS/LSZH/SWB/LSZH 150/250 V (300 V)

1X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not required	
Total Assembling :	13/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,0 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant,	
	Average Thickness 1,1 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 1X2X0,75 SQMM - XLPE/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(6,5 ± 10%) mm	
Over armour diameter :	(7,3 ± 10%) mm	
Outer diameter :	(9,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	C-B400-TIR-001/B400-PCS-002 : MOTION DETECTOR / MARSHALLING PCS				Dwg	123A90-DDL-IN-LIS-40091
	S/Sys	87-20 : Process Control System (PCS) - Instrumentation				Module	LD_B-400
TASK	code	C10002319		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental Form CJX10		Multi/Single-Core Instrument Control Cable

CABLE DATA

Type: Cu-XLPE-IS-OS-LSZH-SWB-LSZH | Cores/Size mm²: 2X2X0,75 mm2 | Color: GREY

From: B400-TIR-001 | To: B400-PCS-002

1	Check cable is as specified in project cable schedule.	OK
2	Check relevant documents are at the latest revision.	OK
3	Check cable is routed in accordance with cable layout drawings.	OK
4	Check cable for any physical damage.	OK
5	Check cable is adequately supported and correctly fixed to rack according to Project specification.	OK
6	Check bending radius is within the specified limits.	OK
7	Check cable is correctly loomed and segregated in accordance with specification.	PL
8	Check cable and core marking are in accordance with specification.	PL
9	Check cable labelling is in accordance with specification.	PL
10	Check that glands, shrouds and earthing are in accordance with specification.	OK
11	Check terminations are in accordance with termination diagram	OK
12	Check gland plate for single core cables is non-ferrous.	NA
13	If required produce Red Line Mark Up for "AS BUILT"	

INSULATION	CORE to EARTH	>999	MΩ
	CORE to CORE	>999	MΩ
	CORE to SCREEN	>999	MΩ
	CORE to ARMr	>999	MΩ
	SCREEN to EARTH	>999	MΩ
	SCREEN to ARMr	>999	MΩ
CONTINUITY	CORES	1,0	Ω
	SCREEN	1,0	Ω
	EARTH	N/A	Ω
	ARMr	1,0	Ω
	TEST VOLTS	500	V

TEST ALL CORES AND RECORD LOWEST VALUE

Notes: The lowest value is recorded and must be within project specifications

TESTING INSTRUMENTS USED

TYPE / SERIAL N°: MEGGER : KEW3125A SERIAL: W8330207 | Calibration date: N°7722/24 10/07/2024

Comments

Page 1/1	Performed by	☑ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:07:02.917Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T16:01:57.092Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002
50-XY-002
50-ZSH-002
50-ZSL-002
+23.628mm
+0.318mm T.O.S

50-XV-001
50-XY-001
50-ZSH-001
50-ZSL-001
+23.628mm
+0.318mm T.O.S

950-JE-05103
+24.910mm
+1.600mm T.O.S

50-PT-001
+24.765mm
+1.455mm T.O.S

950-JE-05102
+24.910mm
+1.600mm T.O.S

64-PV-031A
64-PY-031A
64-ZT-031A
64-ZSH-031A
64-ZSL-031A
+23.238mm
+0.072mm T.O.S

64-PT-031A
+23.389mm
+0.079mm T.O.S

64-PV-031B
64-PY-031B
64-ZT-031B
64-ZSH-031B
64-ZSL-031B
+23.238mm
+0.072mm T.O.S

64-PT-031B
+23.389mm
+0.079mm T.O.S

64-PT-002
+23.389mm
+0.079mm T.O.S

00-JE-11005
+24.909mm
+1.599mm T.O.S

950-JE-06101
+24.909mm
+1.599mm T.O.S

00-JE-11004
+24.909mm
+1.599mm T.O.S

950-JE-05101
+24.909mm
+1.599mm T.O.S

00-JE-12006
+24.909mm
+1.599mm T.O.S

50-PT-014
+23.303mm
+0.007mm T.O.S

50-TT-001
+23.988mm
+0.678mm T.O.S

50-TT-002
+23.373mm
+0.063mm T.O.S

50-XV-004
50-XY-004
50-ZSH-004
50-ZSL-004
+23.628mm
+0.318mm T.O.S

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003
50-XY-003
50-ZSH-003
50-ZSL-003
+23.628mm
+0.318mm T.O.S

50-PT-002
+24.730mm
+1.420mm T.O.S

950-JE-06103
+24.910mmmm
+1.600mm T.O.S

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

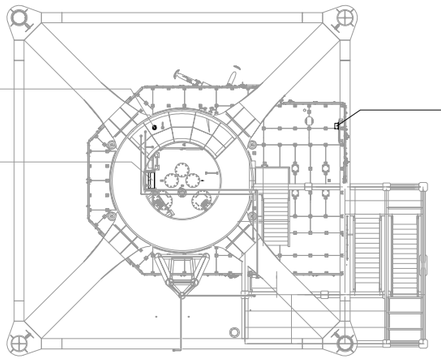
VIEW EL. 23310mm to 29310mm

02

55-LIT-001
-21.441mm
-1.869mm T.O.S

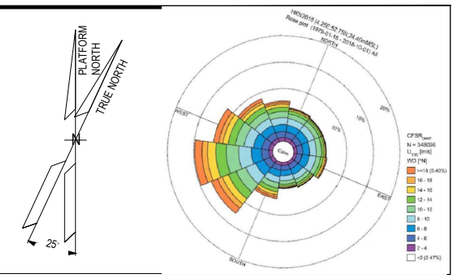
HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S



TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

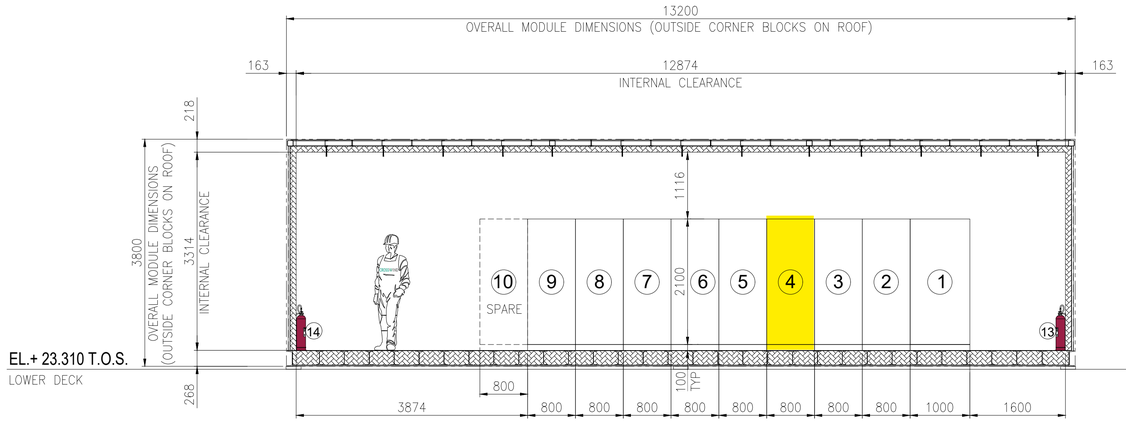
ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

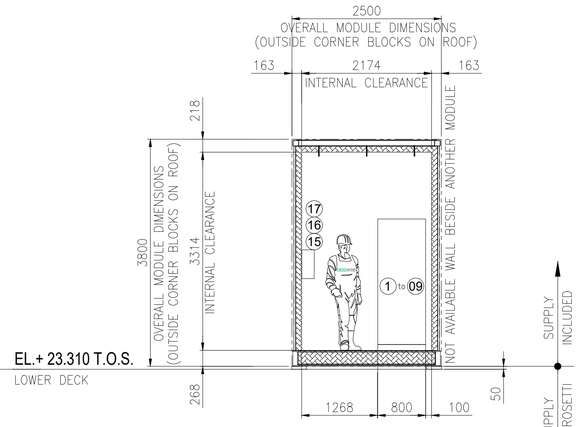
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

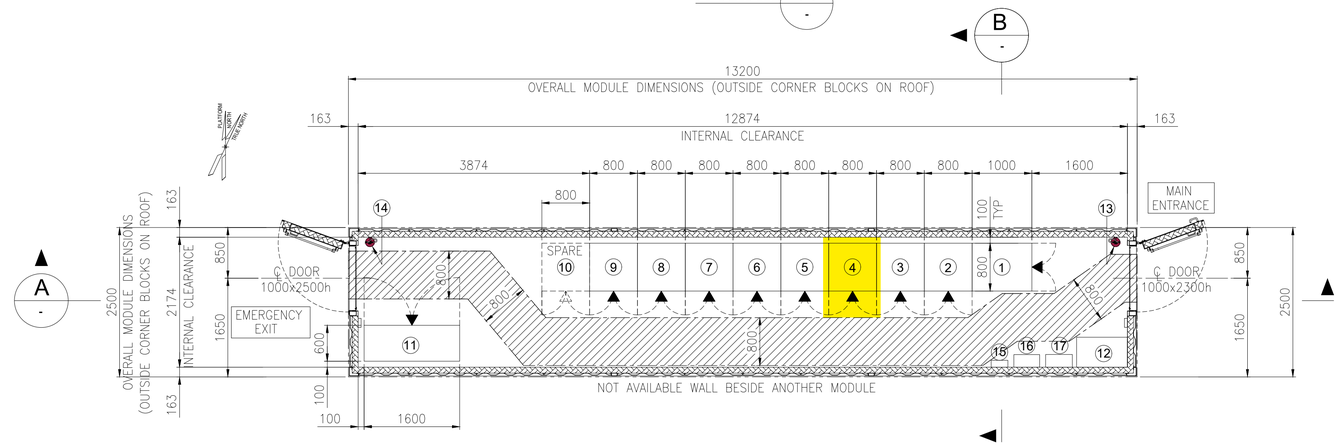
DRAWING NO. 123A90-DDL-IN-DL-40012 REV. 03



SECTION A -



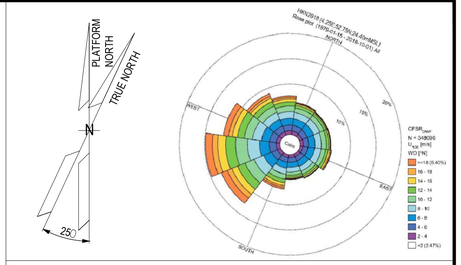
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

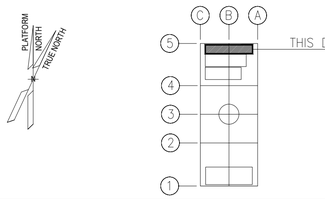
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND | ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

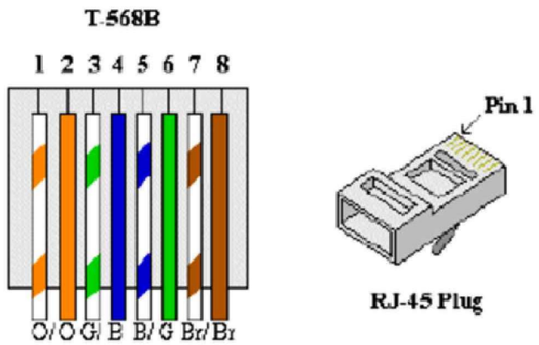
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



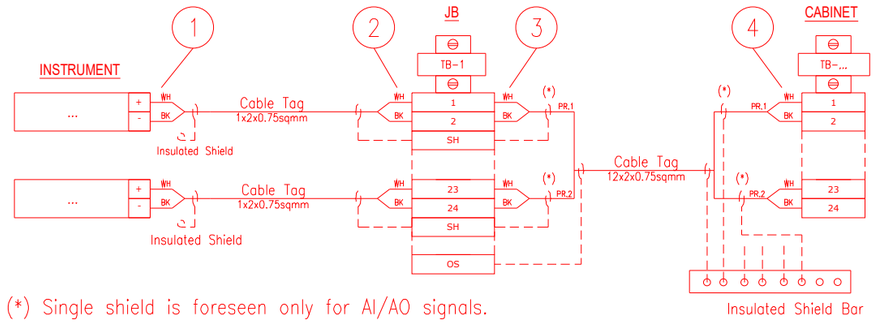
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

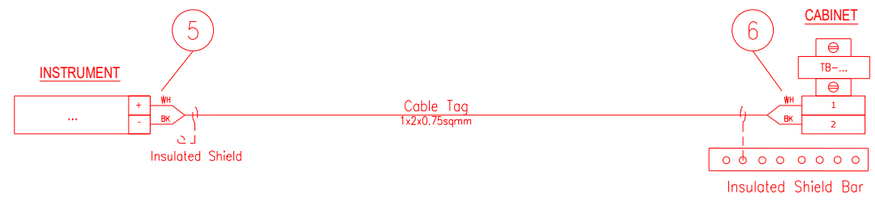
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

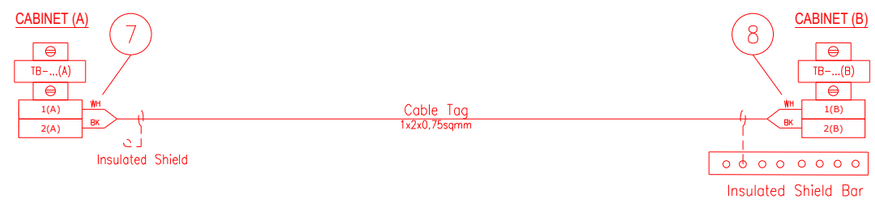
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

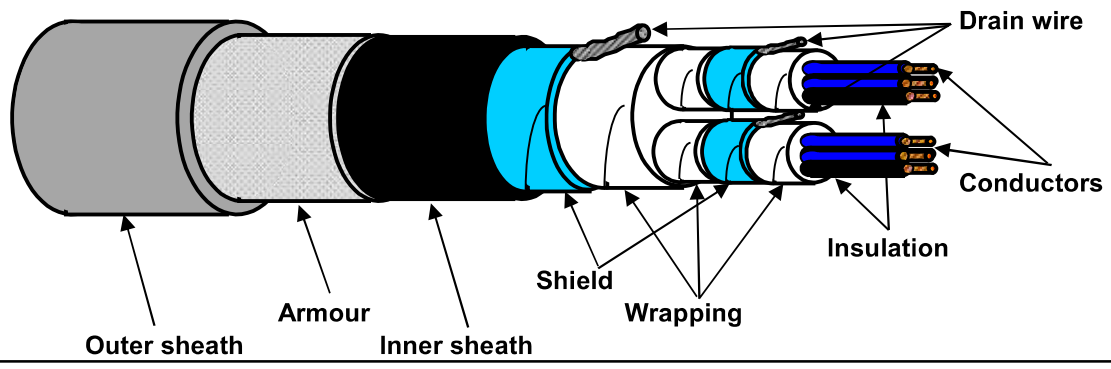
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Stan	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-B400-TIR-001/B400-PCS-002	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						B400-TIR-001	Motion Detector	Lower Deck (B-400)	B400-PCS-002	Marshalling PCS	Lower Deck (B-400)	SMICV02-2X2X0,75	Cable Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 150/250V (300V) 2x2x0,75mm² - Grey	M20	T2_M20_Double			n.a.				B-400-SEC-2I / B-400-SEC-2G / B-400-SEC-2E / B-400-SEC-2D

Cu Cl.2/XLPE/IS/OS/LSZH/SWB/LSZH 150/250 V (300 V)

2X2X0,75 - INSTRUMENT CABLE - Flame Retardant - Not I.S.



TECHNICAL FEATURES

Conductors :	**7-STRANDED** plain/bare soft annealed copper wires	**IEC 60228 Class 2**
Insulation :	XLPE, Nominal Thickness 0,5 mm	
Cores colour code :	**White - Black (each core NUMBERED for PAIR identification)**	
Pair Assembling :	13/1mt	
Pair Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Pair Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Shield Insulation :	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Total Assembling :	7/1mt	
Overall Wrapping:	by polyester-PET Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Drain wire :	7-Stranded **TINNED** annealed copper drain wire, **size 0,5 sqmm**, in continuous contact with the shield	
Overall Shield :	by Aluminium-**Al** Minimum Thickness 0,008 mm / polyester-**PET** Minimum Thickness 0,010 mm tape helically wound (overlap ≥ 25%)	
Inner sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm	
Inner sheath color code:	**Black**	
Armour :	Galvanized Steel Wire Braid Armour (coverage ≥ 90%)	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, moisture/abrasion/UV Resistant, Average Thickness 1,3 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - 2X2X0,75 SQMM - XLPE/IS/OS/LSZH/SWB/LSZH - 150/250 V - IEC 60332.1.2 - IEC 60332.3.22 -**	
(every 1000 mm)	**Year of Manufacture - CE + Meter Marking**	
Under armour diameter :	(11,4 ± 10%) mm	
Over armour diameter :	(12,6 ± 10%) mm	
Outer diameter :	(15,2 ± 10%) mm	
Bending radius :	cable outer diameter x 10 (in fixed installation)	
Voltage Test :	1,5 kV a.c. for 5' (Between Cores) / 1,5 kV a.c. for 5' (Between Cores - Shield)	
Conductors DC Resistance :	≤ 26 Ω/km (@ 20°C)	
Insulation Resistance :	≥ 1000 MΩ x Km (@ 20°C)	
Mutual Capacitance :	≤ 150 nF/km	
L/R ratio :	≤ 25 µH/Ω	
Inductance :	≤ 0,9 mH/km	
Applicable Standards		
Design Guidelines :	**IEC 60092.376**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance :	IEC 61034.2 (LT ≥ 60%)	
Hazardous Areas :	IEC 60079.14 par.9.3.2a	
Temperature Range :		
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)	
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)	
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C) (in fixed installation)	
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner sheath together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	04/04/2024	Messa			
Checked :	04/04/2024	Spaccasassi			
Approved :	04/04/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	B100-TDC-001	: Proximity Switch (B-100)			Dwg	123A90-DDL-IN-DL-40080
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation			Module	LD_B-100
TASK	code	C10002328		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX00 Miscellaneous

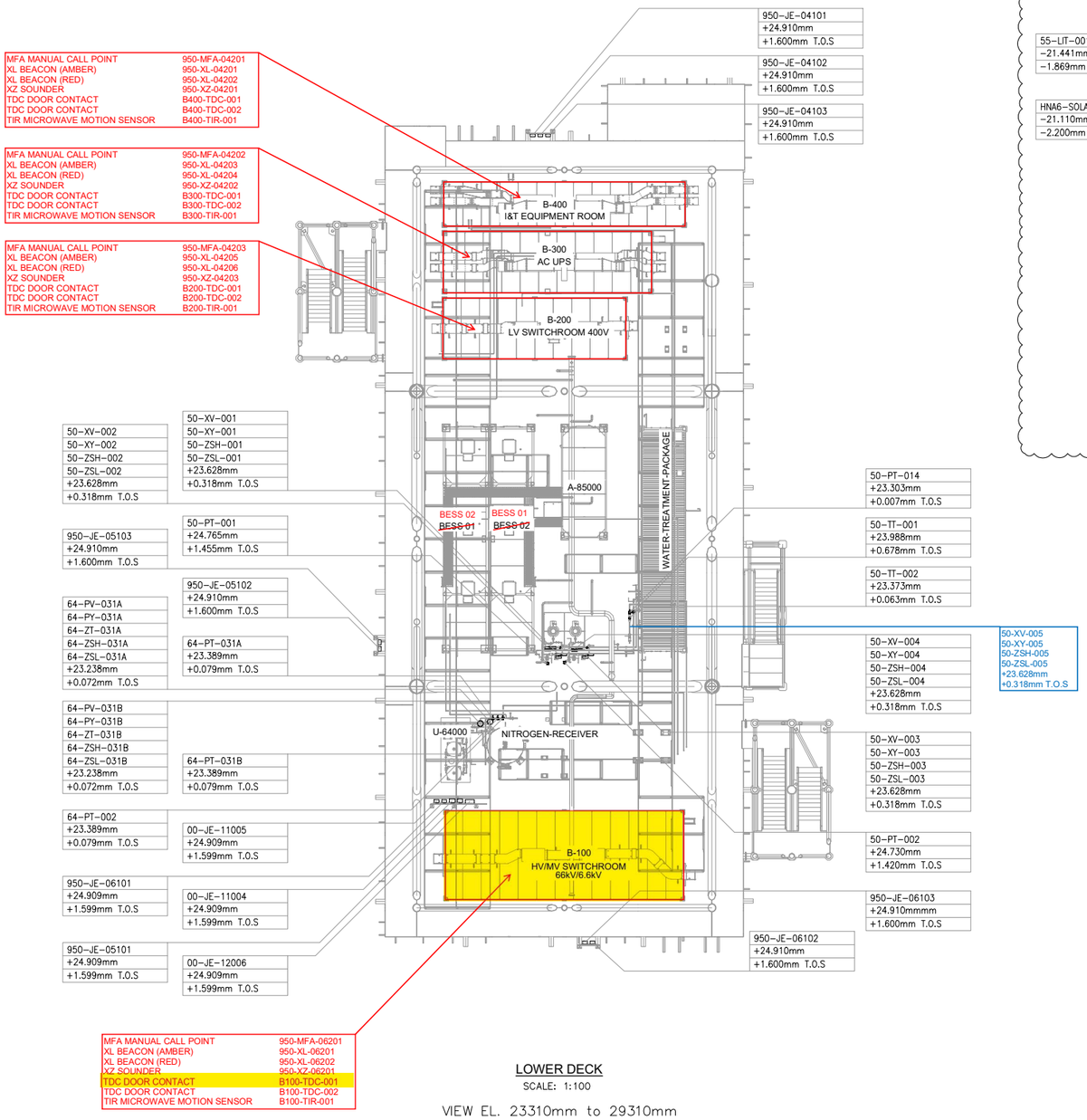
1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	NA
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:14:31.230Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-12T13:36:17.088Z	

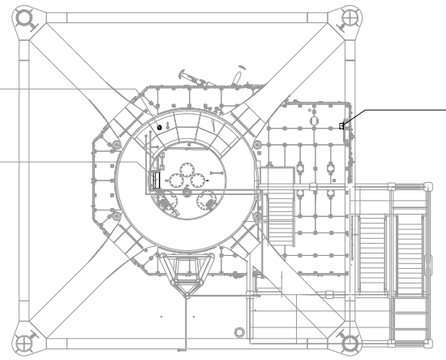
DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

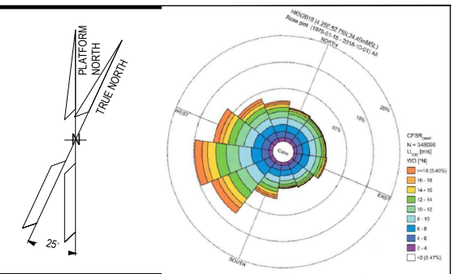


LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm

02



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

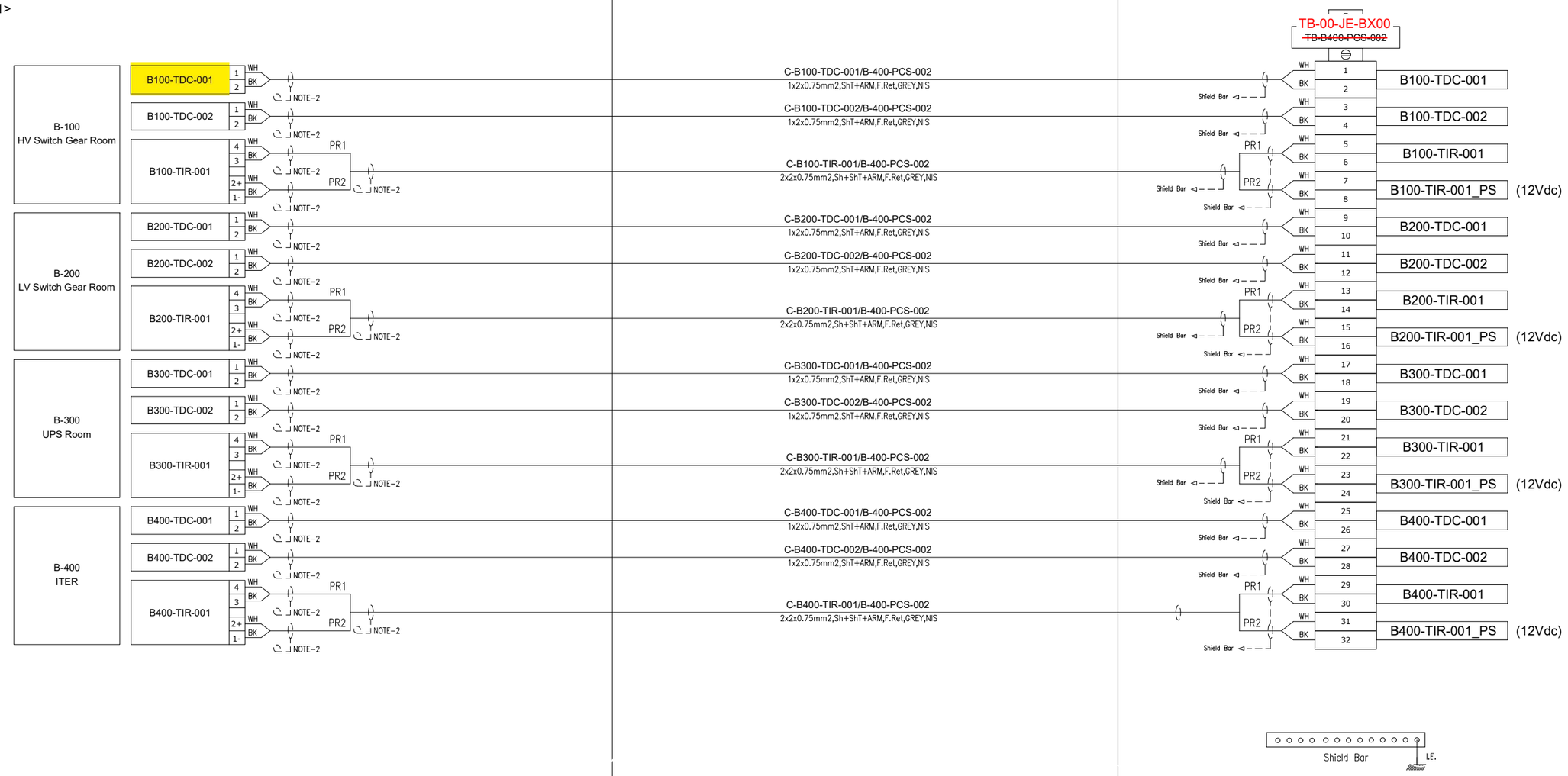
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

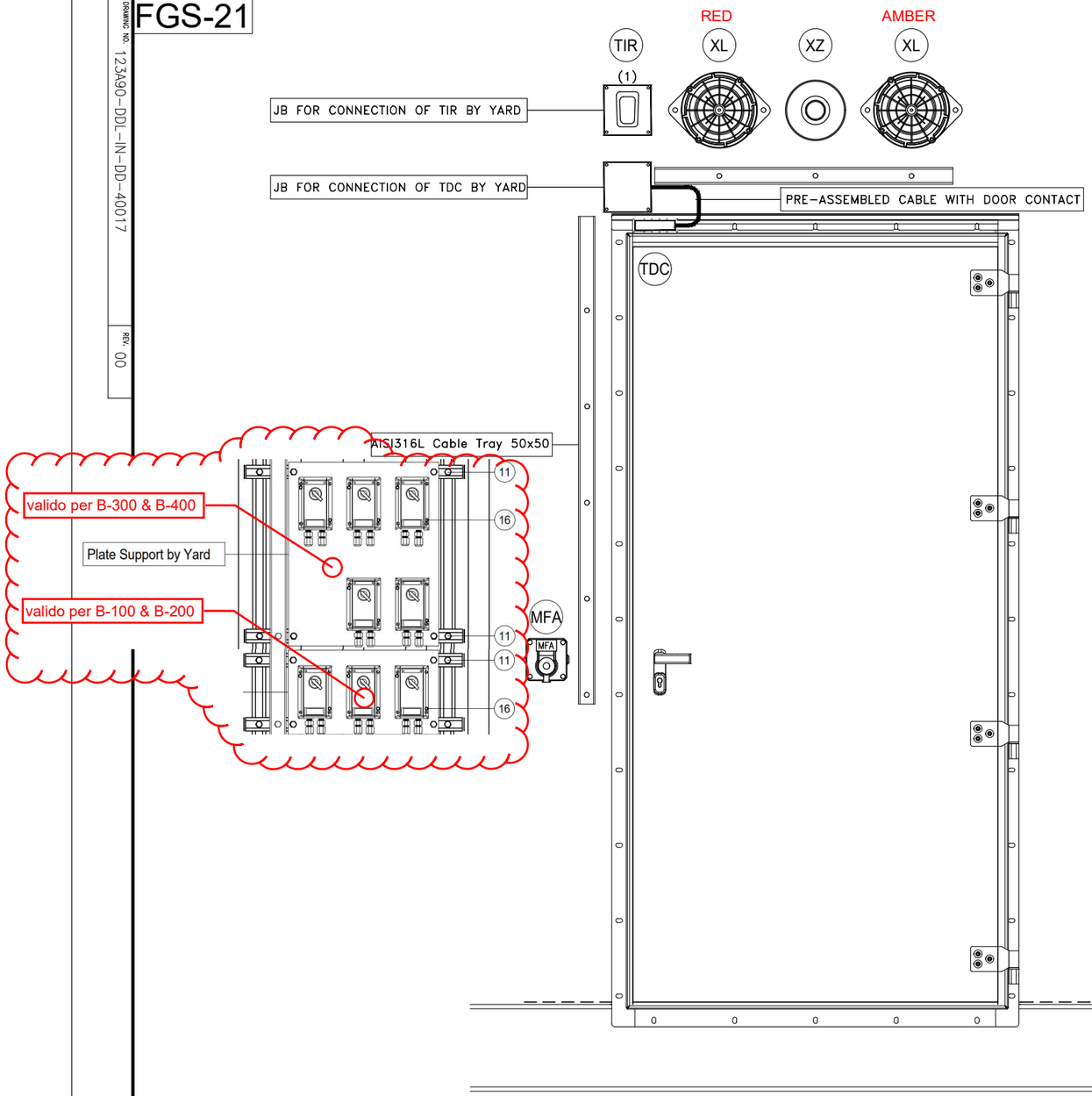
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

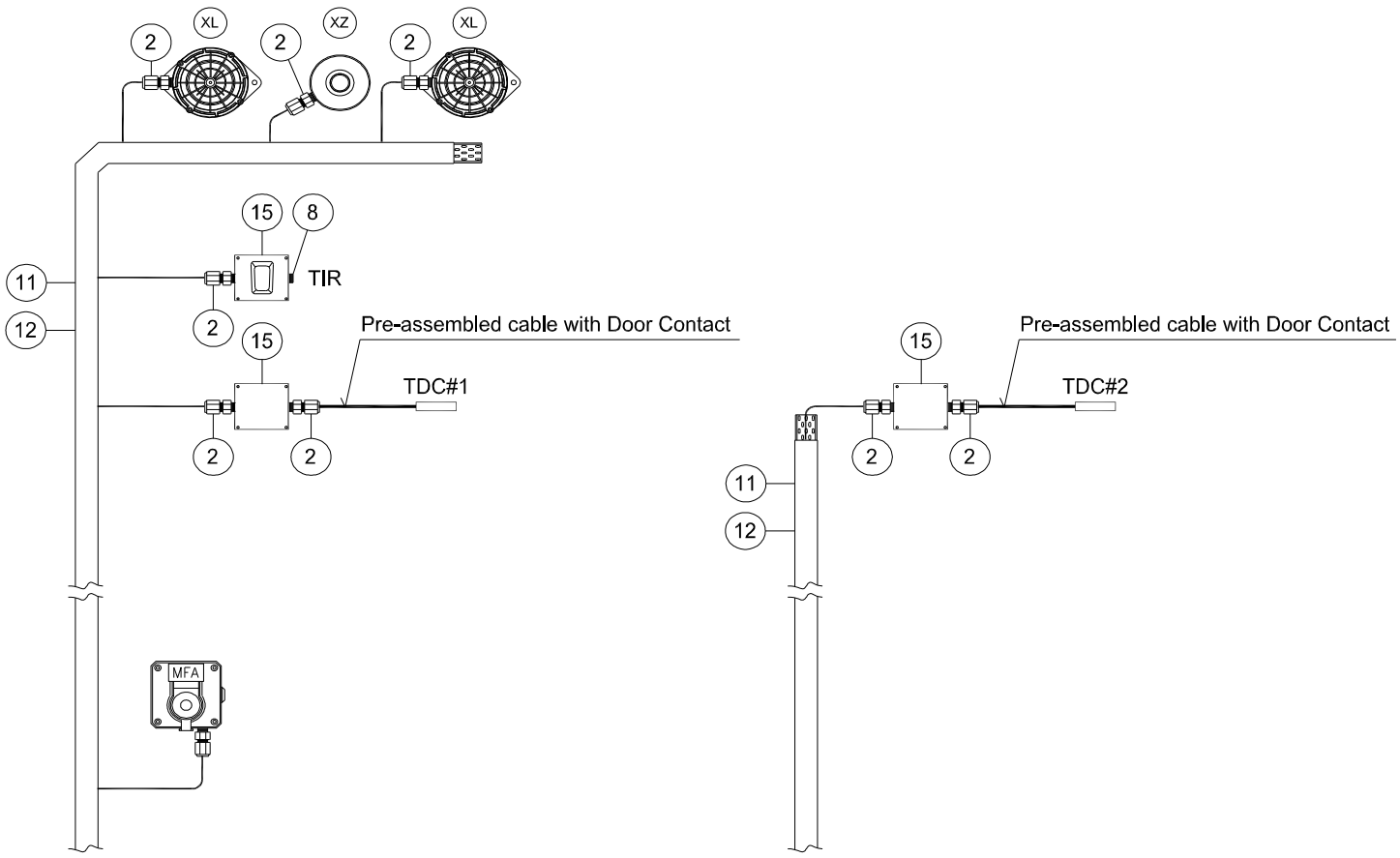
BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE | SCALE /

DRAWN VBA | CHECKED LCA | APPROVED DLO | DATE 11/07/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DD-40017	041	01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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DC108

Surface, overhead, floor mount contact

Overhead door magnetic contact

The DC108 series overhead door magnetic contact is for use in the rigorous environments of commercial and industrial installations. The floor mount units are constructed with a low profile heavy cast aluminium housing. The reed switch assembly is fully encased in an exclusive polyurethane potting material to prevent damage due to moisture or humidity.

Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

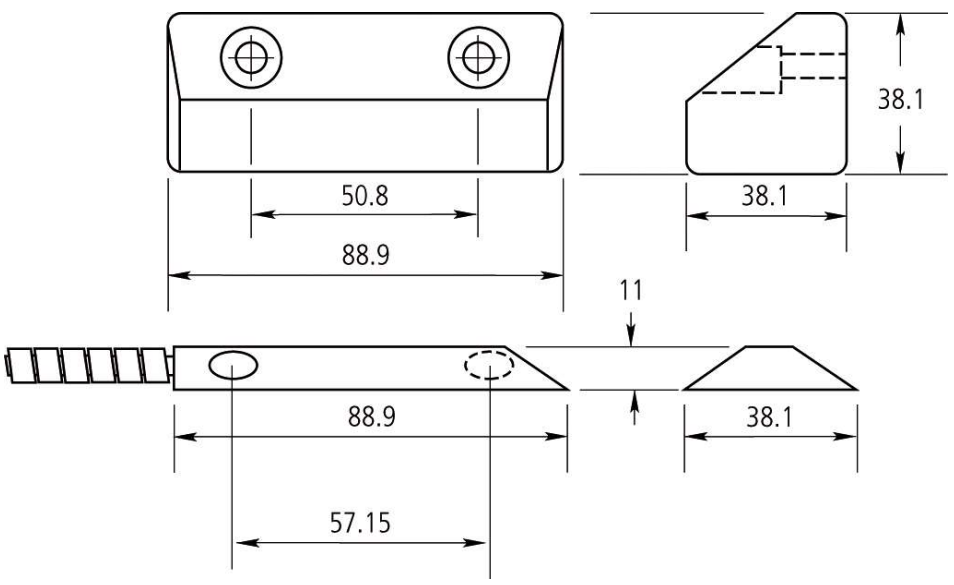
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B100-TDC-002	: Proximity Switch (B-100)			Dwg	123A90-DDL-IN-DL-40080
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation			Module	LD_B-100
TASK	code	C10002329		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX00 Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	NA
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:14:42.659Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-12T13:39:21.658Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 02
~~BESS 01~~

BESS 01
~~BESS 02~~

WATER-TREATMENT-PACKAGE

U-64000
NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
~~TDC DOOR CONTACT~~	~~B100-TDC-001~~
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

VIEW EL. 23310mm to 29310mm

02

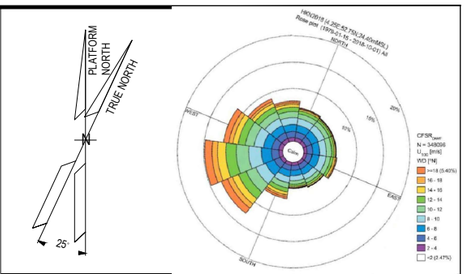
55-LIT-001
-21.441mm
-1.869mm T.O.S

HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S

TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

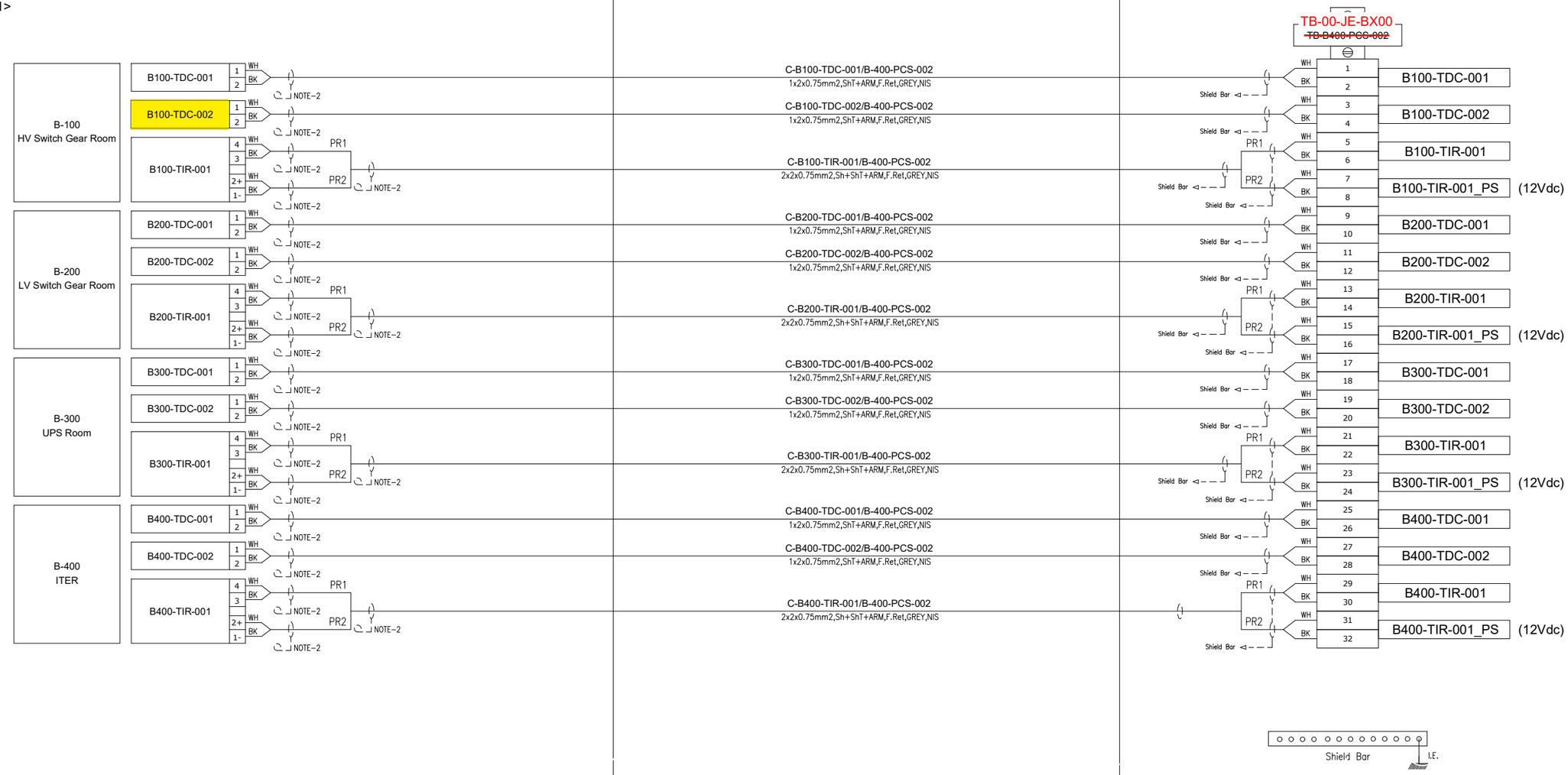
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

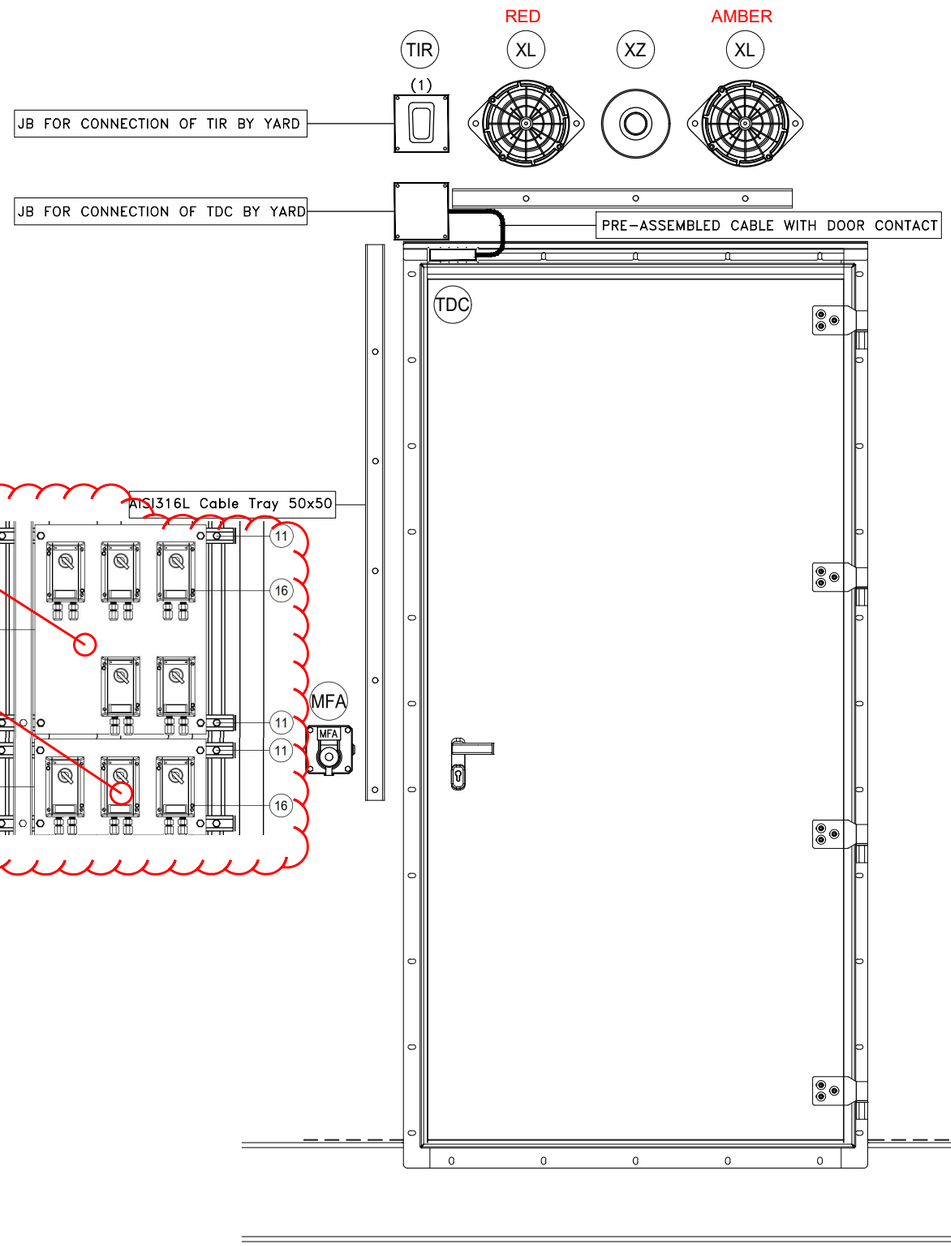
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00

FGS-21



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
B-100	XL	BEACON (RED)	950-XL-06202
~~B-101~~	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
(1)	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
B-200	XL	BEACON (RED)	950-XL-04206
~~B-201~~	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
(1)	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
B-300	XL	BEACON (RED)	950-XL-04204
~~B-301~~	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
B-400	XL	BEACON (RED)	950-XL-04202
~~B-401~~	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001
		(1)	

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

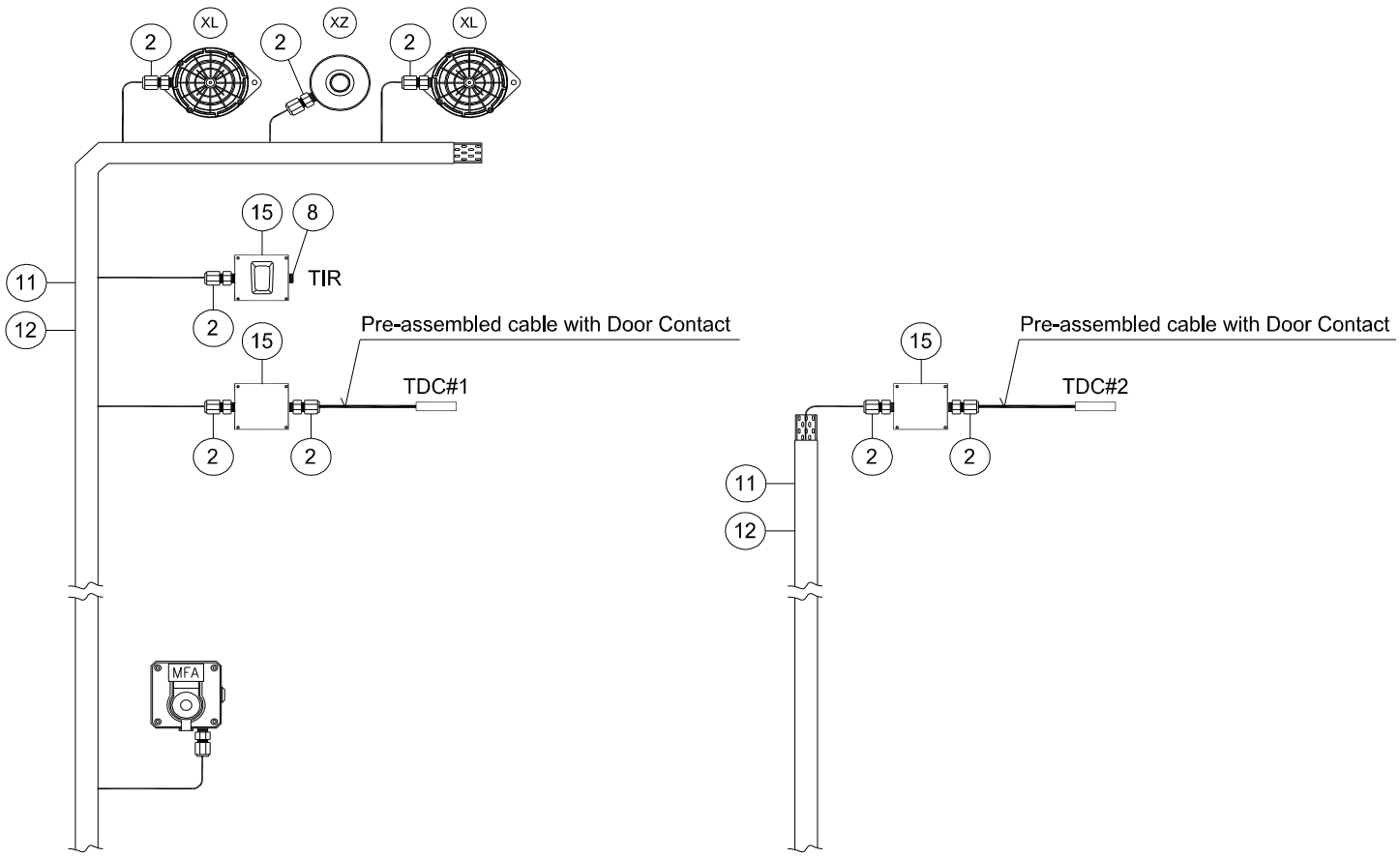
BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE | SCALE /

DRAWN VBA | CHECKED LCA | APPROVED DLO | DATE 11/07/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DD-40017	041	01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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DC108

Surface, overhead, floor mount contact

Overhead door magnetic contact

The DC108 series overhead door magnetic contact is for use in the rigorous environments of commercial and industrial installations. The floor mount units are constructed with a low profile heavy cast aluminium housing. The reed switch assembly is fully encased in an exclusive polyurethane potting material to prevent damage due to moisture or humidity.

Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

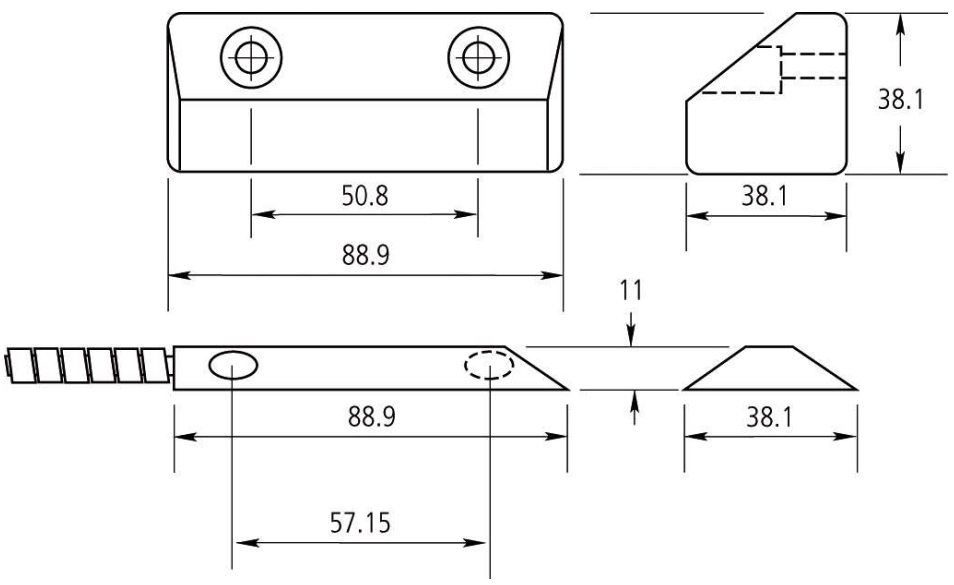
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B100-TIR-001	: Motion Detector (B-100)			Dwg	123A90-DDL-IN-DL-40080
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation			Module	LD_B-100
TASK	code	C10002330		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX00 Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	NA
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:14:53.456Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-12T13:40:29.376Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 02
~~BESS 01~~

BESS 01
~~BESS 02~~

WATER-TREATMENT-PACKAGE

U-64000
NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

VIEW EL. 23310mm to 29310mm

02

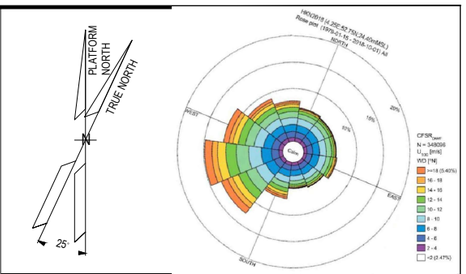
55-LIT-001
-21.441mm
-1.869mm T.O.S

HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S

TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
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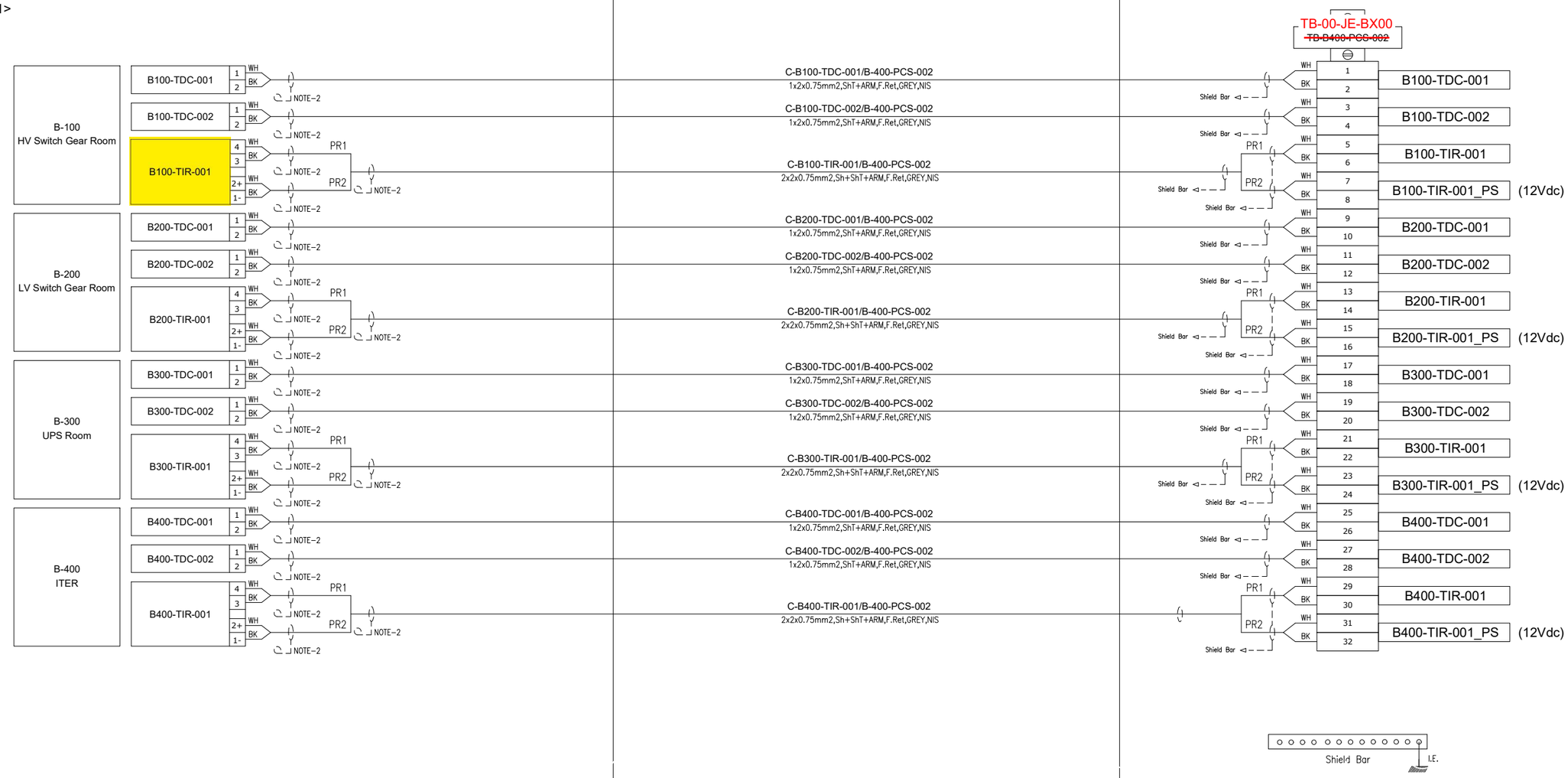
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

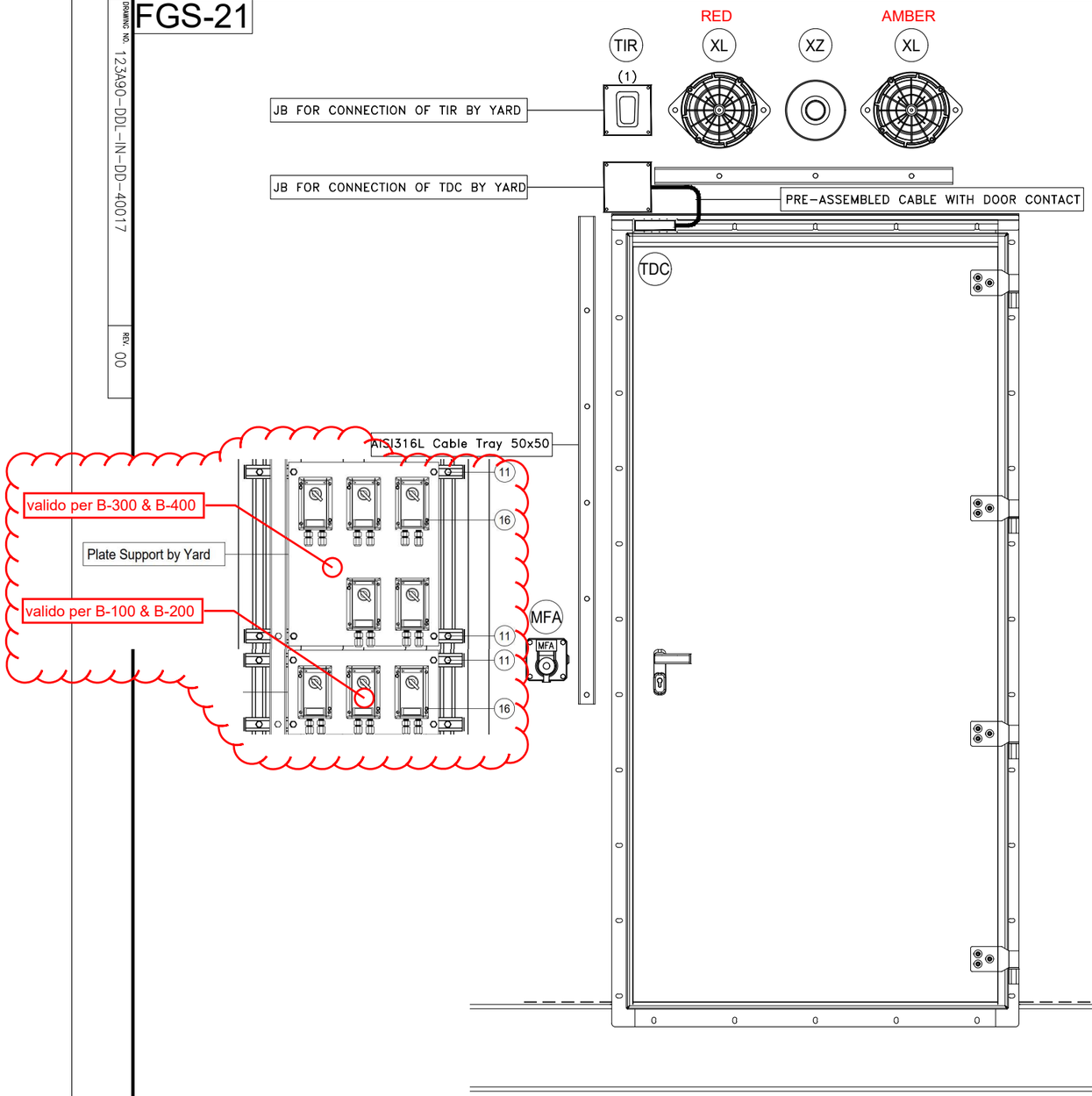
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

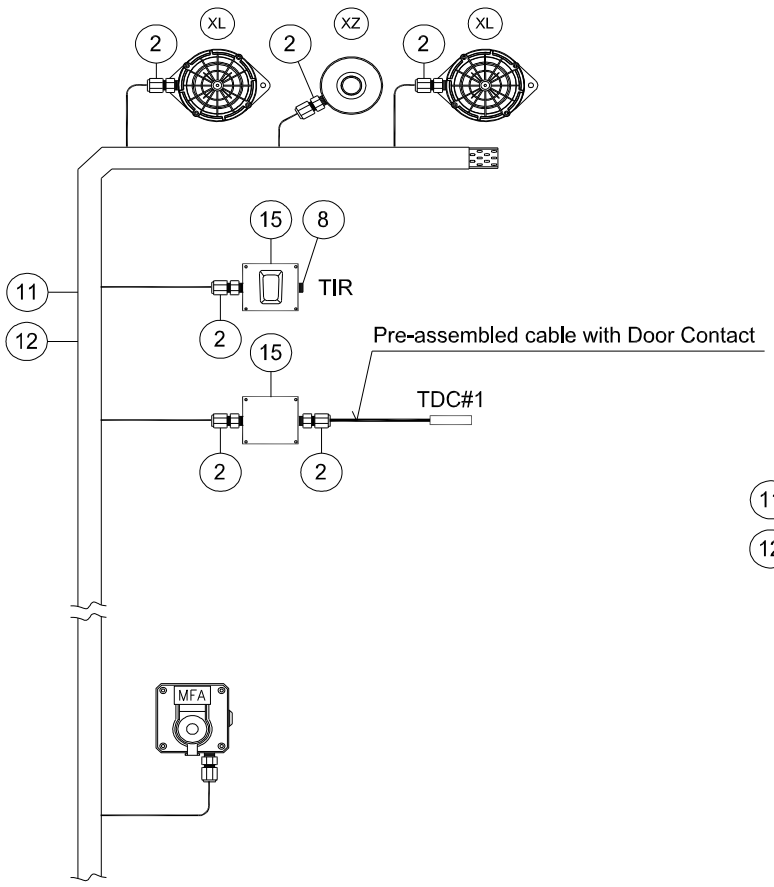
TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

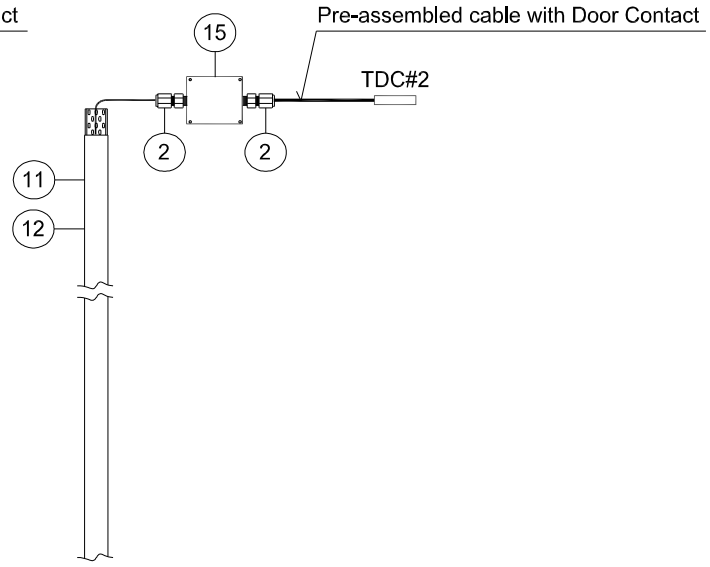
CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO. 123A90-DDL-IN-DD-40017	SHEET 041	REV. 01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR



MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Dual Technology outdoor motion sensor

The Mini Dual variants are outdoor motion sensors and alarm triggers that use two independent passive infrared detectors plus a microwave sensor module. All three sensors must trigger to cause the detector to signal an alarm. They use triple detection technology to deliver precise, reliable presence detection.

Easy and quick to install

Programmable options include a variable pulse count and LED able/disable functionality. Moreover, the integral dual-axis tilt sensor allows 90º of pan and 45º of tilt, which increases the speed of the outdoor installation and provides incredibly accurate aiming of the detection pattern.

Aesthetics and hidden sensor module

The design has a neat appearance that gives no visible indication of the orientation of the detector head and totally hides the wiring. It blends smoothly into residential outdoor applications.



Details

- New outdoor family containing wired PIR, 2 Dual Technology variants and wireless PIR
- Attractive aesthetics
- 14 to 70º detection angle
- 90º pan & 45º tilt for flexible installation
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 5 years warranty

6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Technical specifications

General

Technology	Dual
Application type	Wall mount
Anti masking	No
Pet immune	No
Camera	No
Processor	Digital microprocessor with nonvolatile memory

Detection

Max. detection range	15 m
Detection range	14 to 70° detection angle, 15 x 13 m
No. of curtains	21
Microwave frequency (nom.)	24 GHz
Undercrawl protection	No
Fresnel lens	20 zones for each detection element, which can be masked with the curtain sliders
Microwave module	X-band radar 24 GHz
Adjustment	90° pan, 45° tilt
Customized optics	Double silicon shielded quad element eliminates 50,000 lux of white light
Pulse count	1 or 2

Wired / wireless

Wired-wireless	Wired

Inputs / outputs

Alarm relay characteristic	NC, volt free relay, signal contact 24 VAC/DC @ 50 mA with an integral 25 Ohm series resistor

Electrical

Power supply value	10 to 15 VDC
Current consumption	8 mA (12 V nominal)

Physical

Physical dimensions	71 x 120 x 75 mm (W x H x D)
Net weight	225 g
Shipping weight	325 g
Colour	Bronze
Material	High impact ABS plastic with HDPE cover, UV stabilized
Mounting height	3 to 6 m
Mounting height	Variable up to 6 m / Optimum height 3 m for full range

Environmental

Operating temperature	-30 to +65°C
Environment	Outdoor
IP rating	IP65
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment

Inputs / outputs

Outputs	Silent, solid state, magnetically immune. PIR AND Microwave

LED

	Orange : Microwave activated
	Red : PIR activated
	Orange & Red : Detector alarm

As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 27 September 2023 - 15:01

ITEM	Tag	B200-TDC-001	: Proximity Switch (B-200)		Dwg	123A90-DDL-IN-DL-40080	
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation		Module	LD_B-200	
TASK	code	C10002331	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Instrumental	Form	CJX00	Miscellaneous

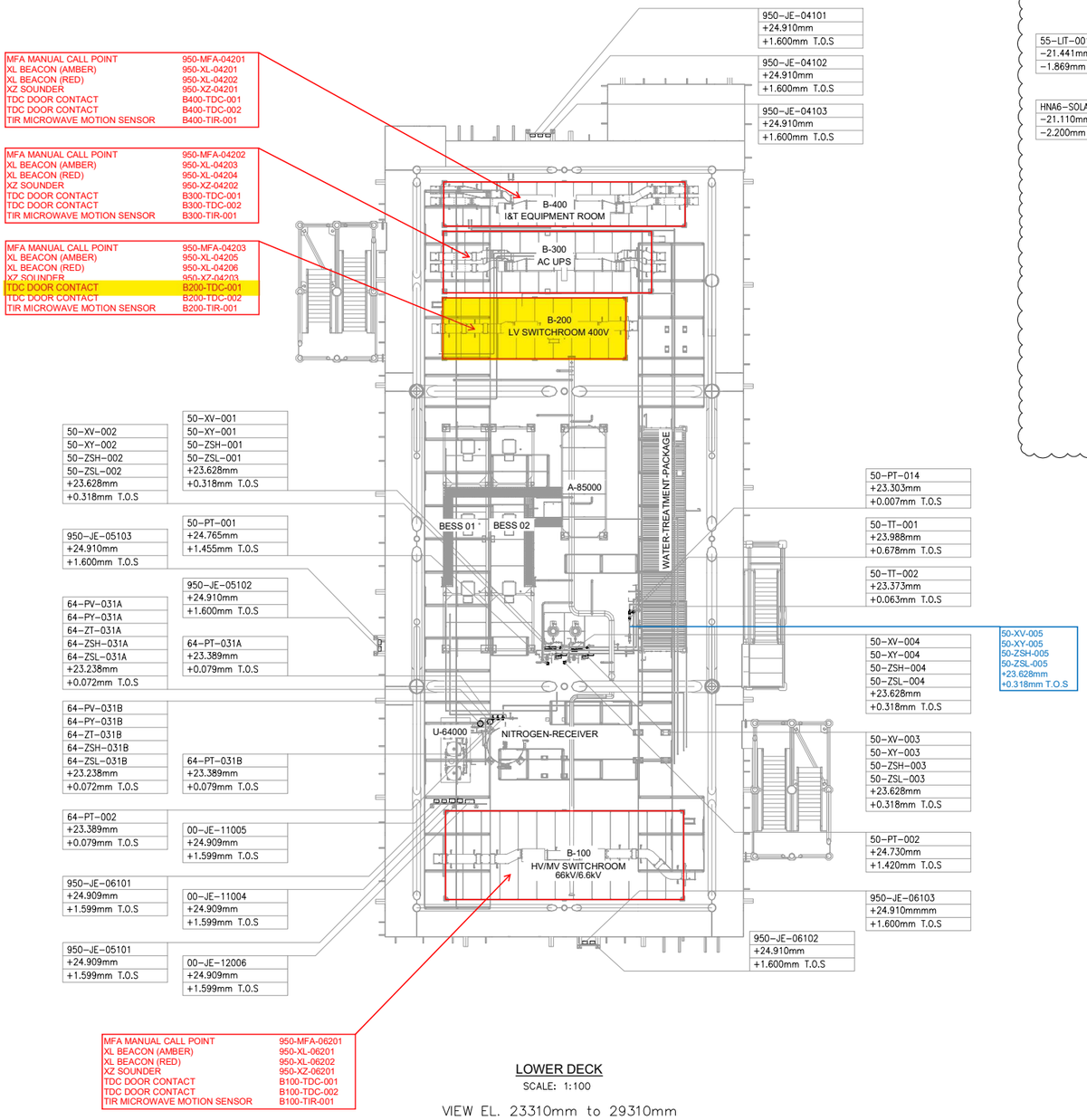
1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	NA
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

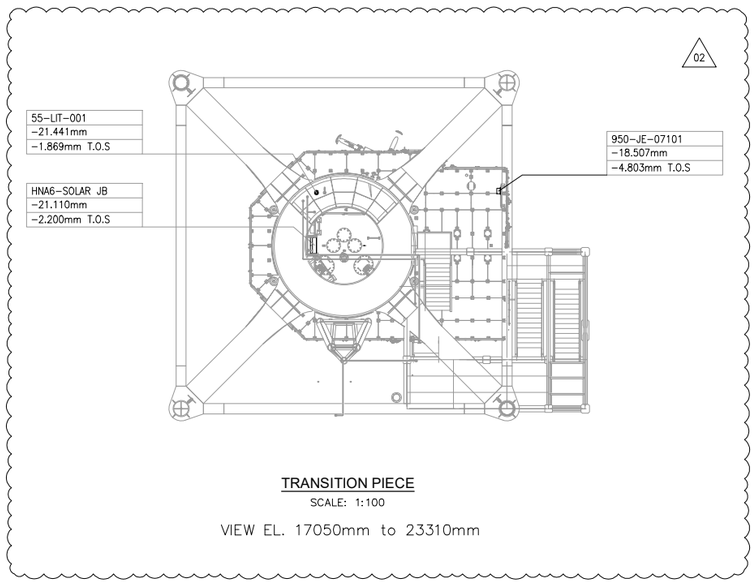
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-09	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-09T13:41:53.457Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-11T17:52:04.705Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

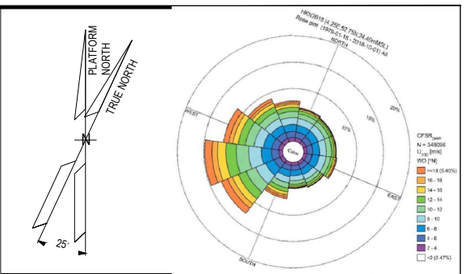
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

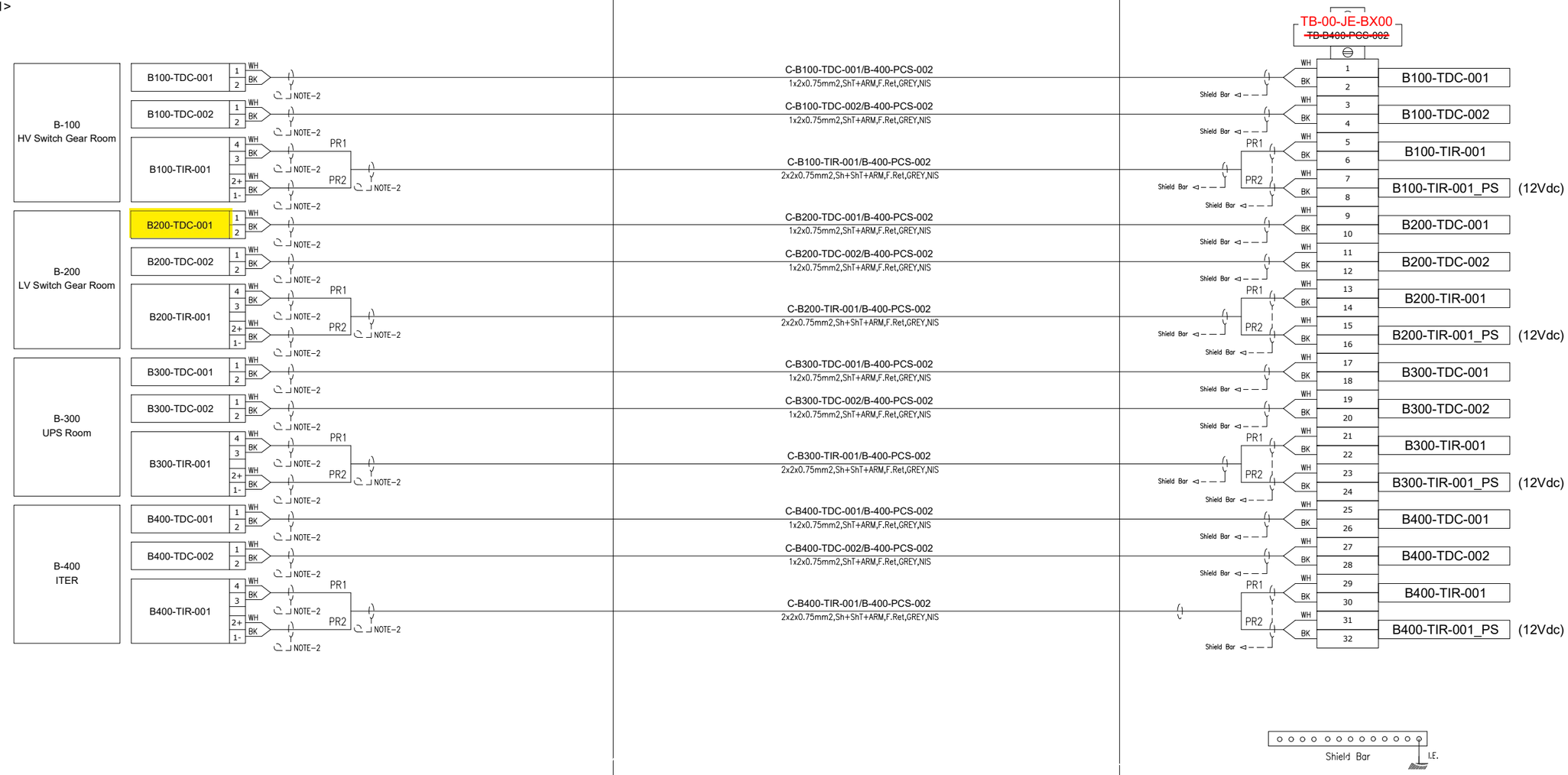
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

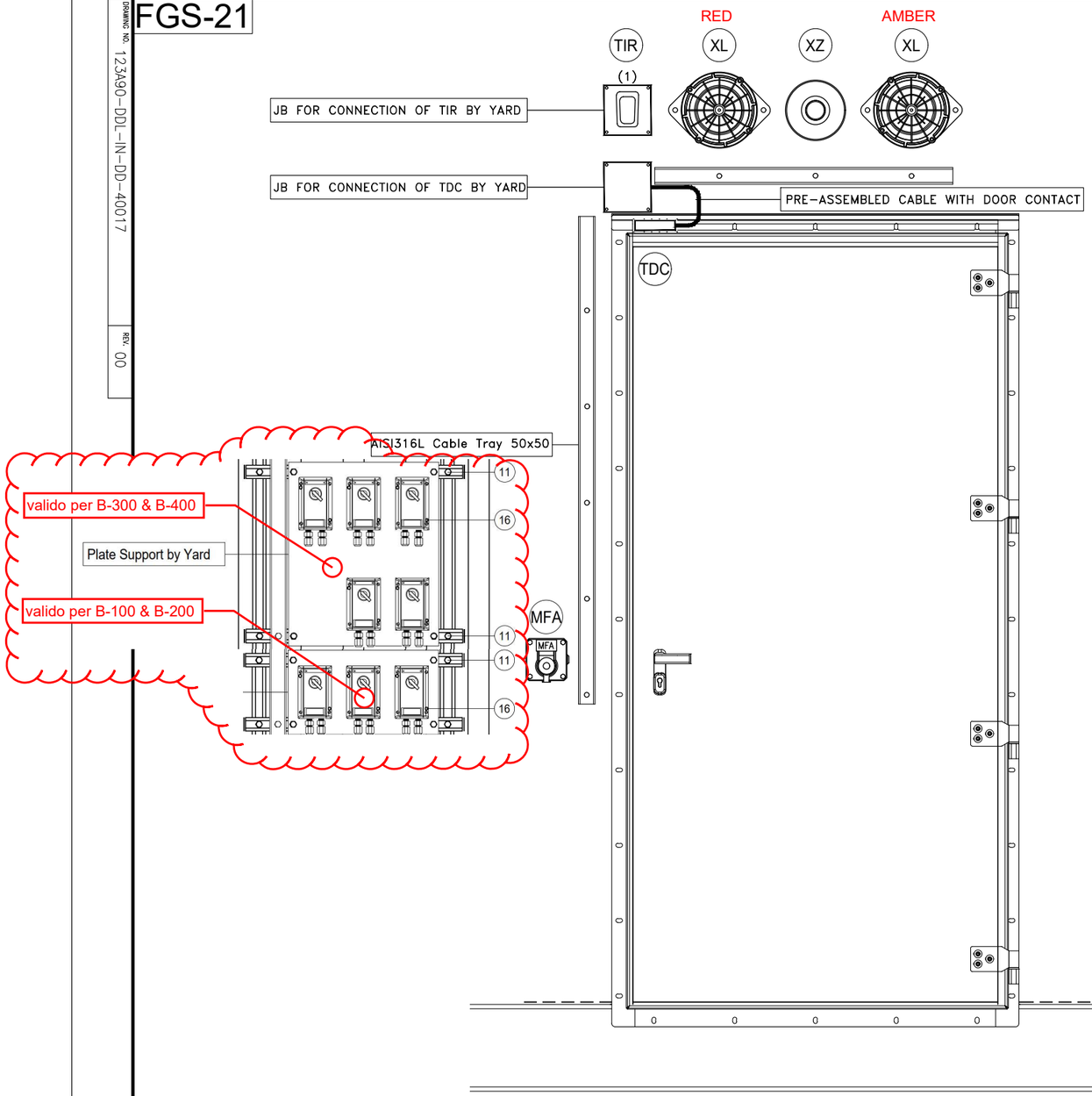
	DRAWING NO.	SHEET	REV.
A3	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00

FGS-21



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

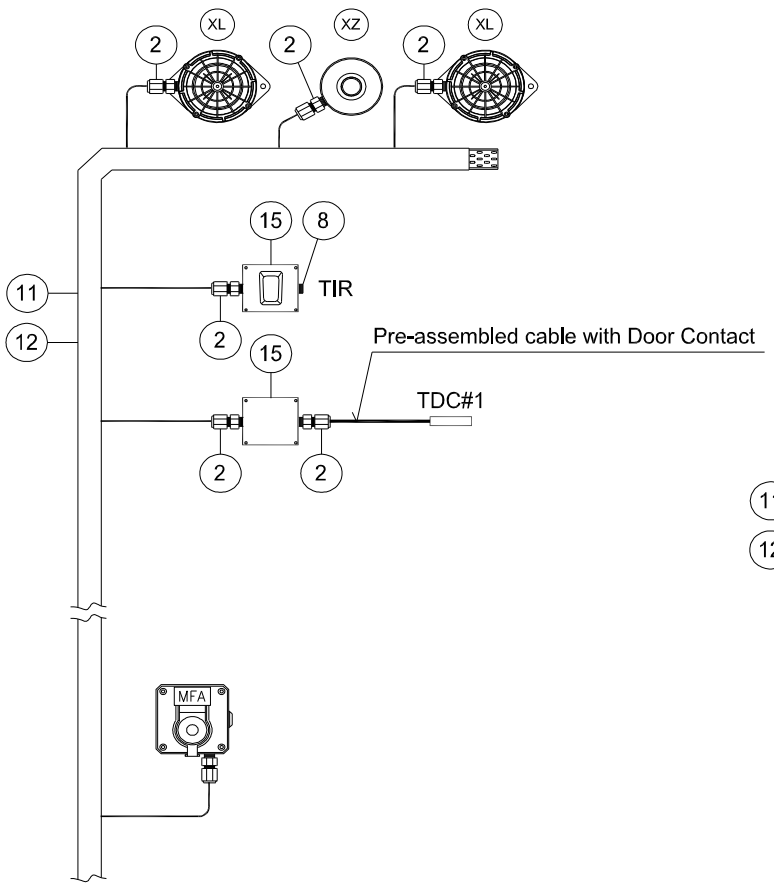
BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE | SCALE /

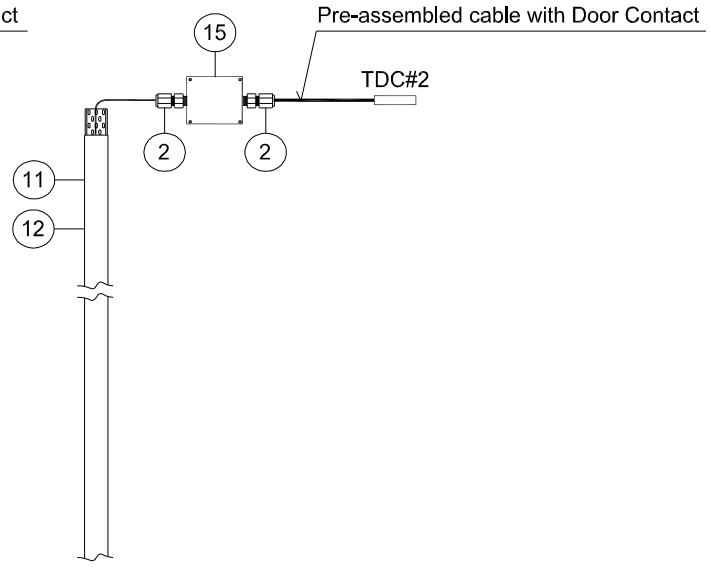
DRAWN VBA | CHECKED LCA | APPROVED DLO | DATE 11/07/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DD-40017	041	01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR



MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DC108

Surface, overhead, floor mount contact

Overhead door magnetic contact

The DC108 series overhead door magnetic contact is for use in the rigorous environments of commercial and industrial installations. The floor mount units are constructed with a low profile heavy cast aluminium housing. The reed switch assembly is fully encased in an exclusive polyurethane potting material to prevent damage due to moisture or humidity.

Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

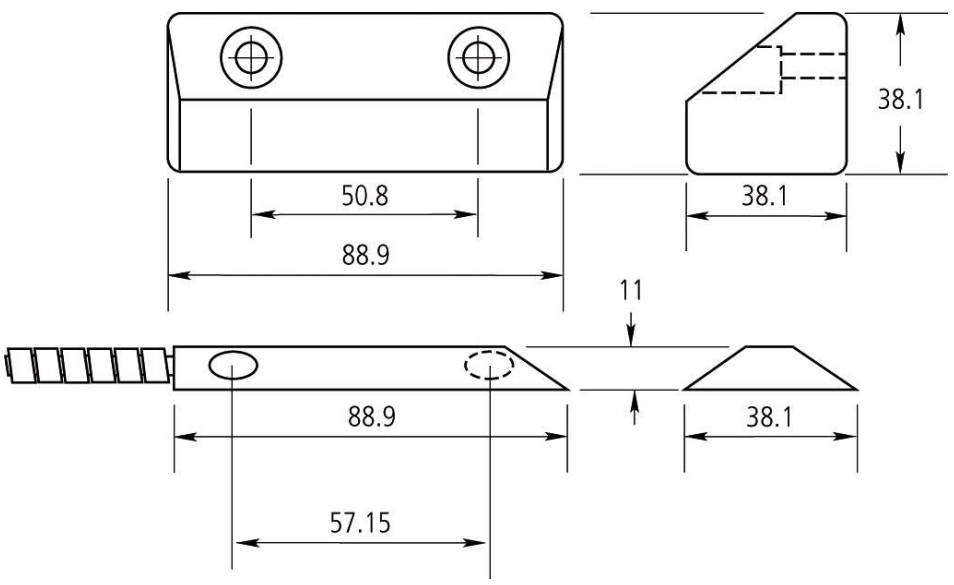
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B200-TDC-002	: Proximity Switch (B-200)		Dwg	123A90-DDL-IN-DL-40080	
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation		Module	LD_B-200	
TASK	code	C10002332	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Instrumental	Form	CJX00	Miscellaneous

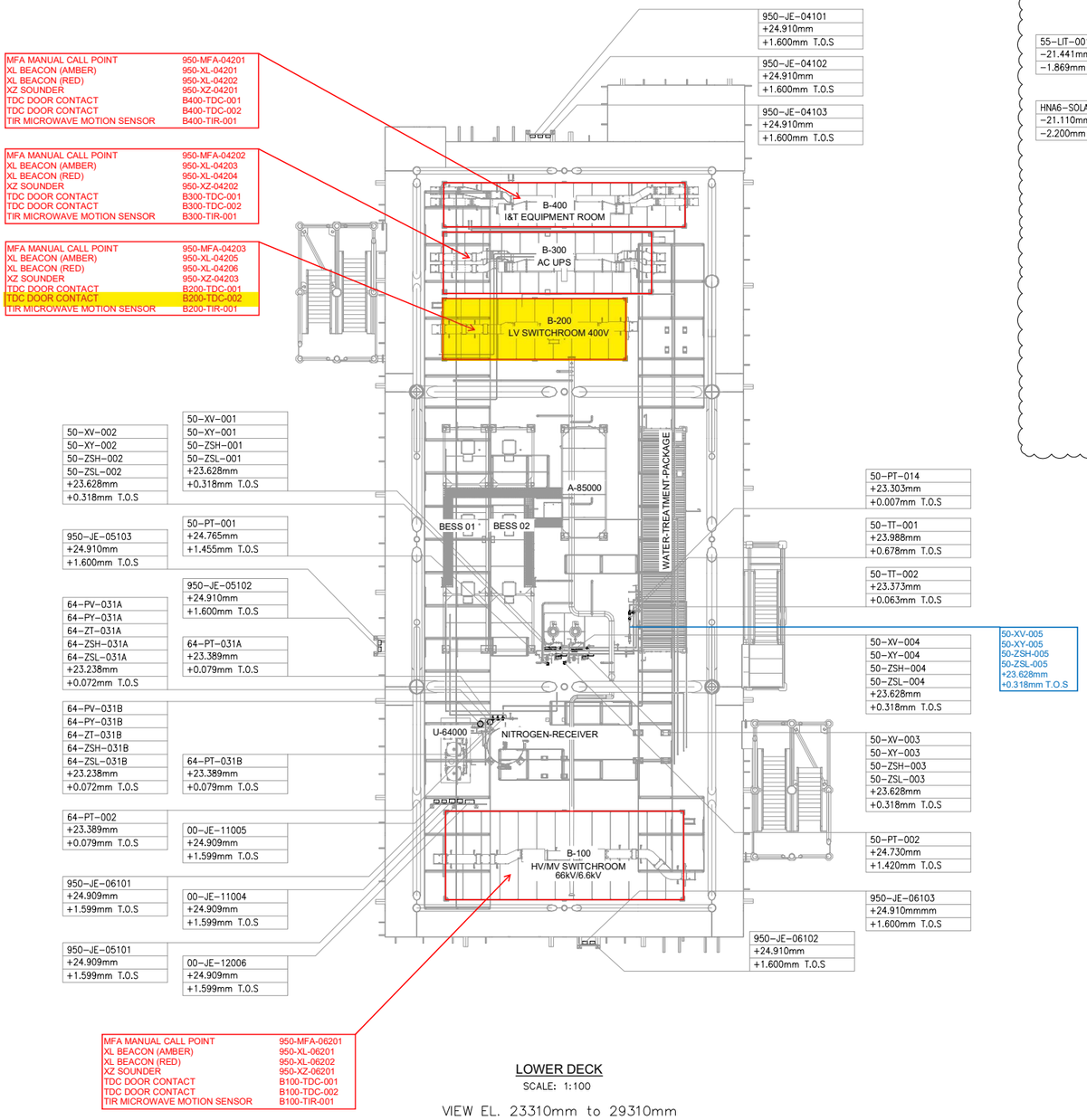
1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	OK
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

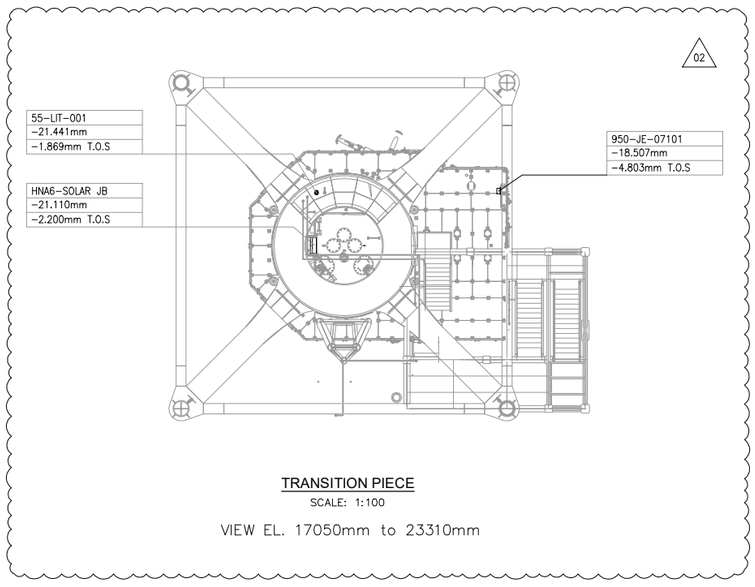
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-09	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-09T13:42:09.310Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-11T17:53:13.671Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

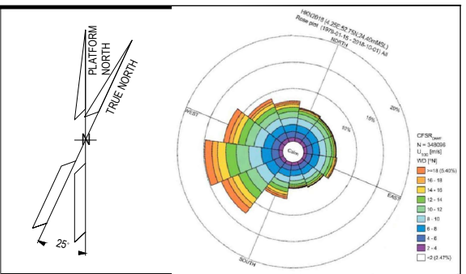
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

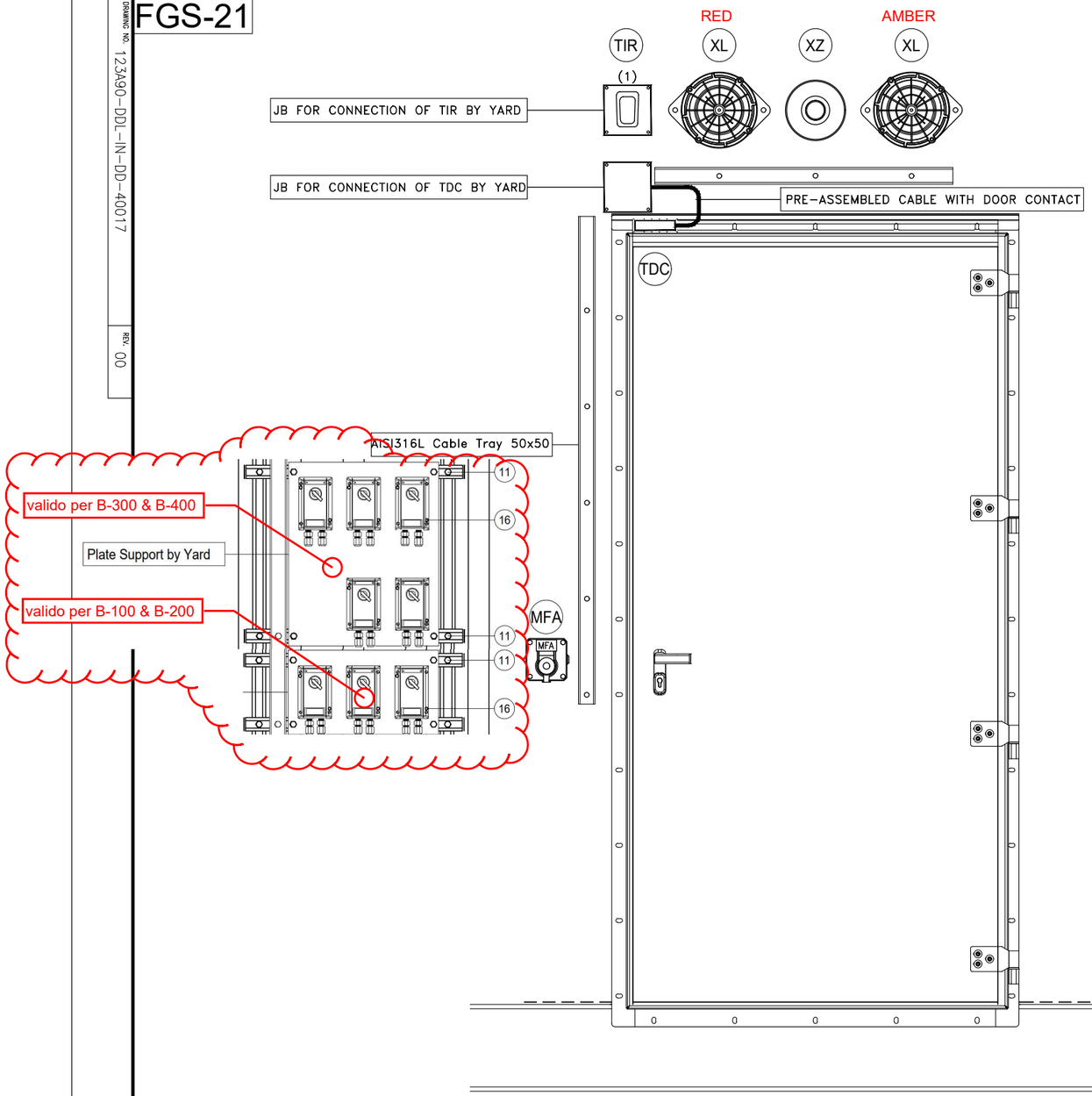
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
B-100	XL	BEACON (RED)	950-XL-06202
~~B-101~~	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
(1)	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
B-200	XL	BEACON (RED)	950-XL-04206
~~B-201~~	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
(1)	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
B-300	XL	BEACON (RED)	950-XL-04204
~~B-301~~	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
B-400	XL	BEACON (RED)	950-XL-04202
~~B-401~~	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001
(1)			

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

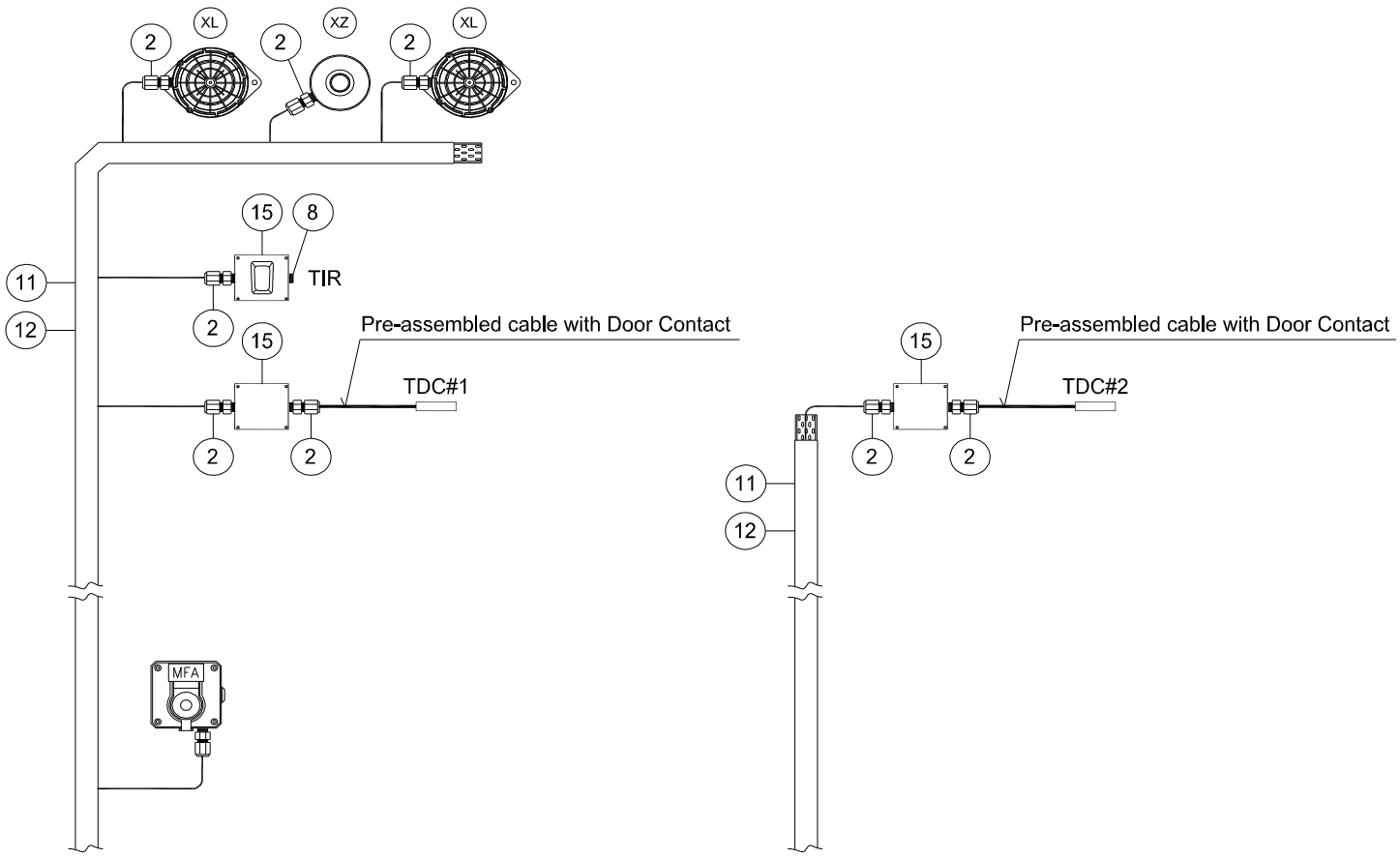
TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DD-40017	041	01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DC108

Surface, overhead, floor mount contact

Overhead door magnetic contact

The DC108 series overhead door magnetic contact is for use in the rigorous environments of commercial and industrial installations. The floor mount units are constructed with a low profile heavy cast aluminium housing. The reed switch assembly is fully encased in an exclusive polyurethane potting material to prevent damage due to moisture or humidity.

Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

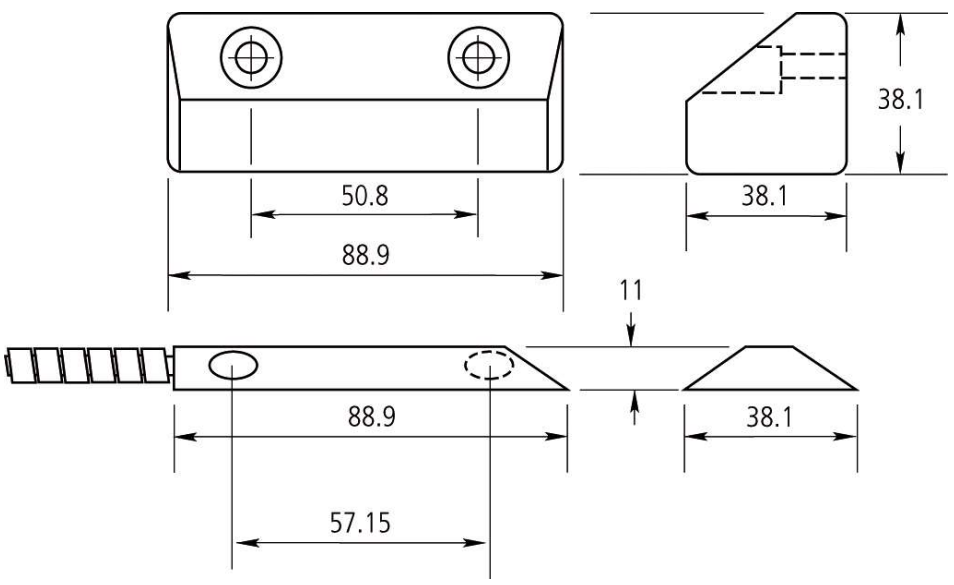
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B200-TIR-001	: Motion Detector (B-200)			Dwg	123A90-DDL-IN-DL-40080
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation			Module	LD_B-200
TASK	code	C10002333		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX00 Miscellaneous

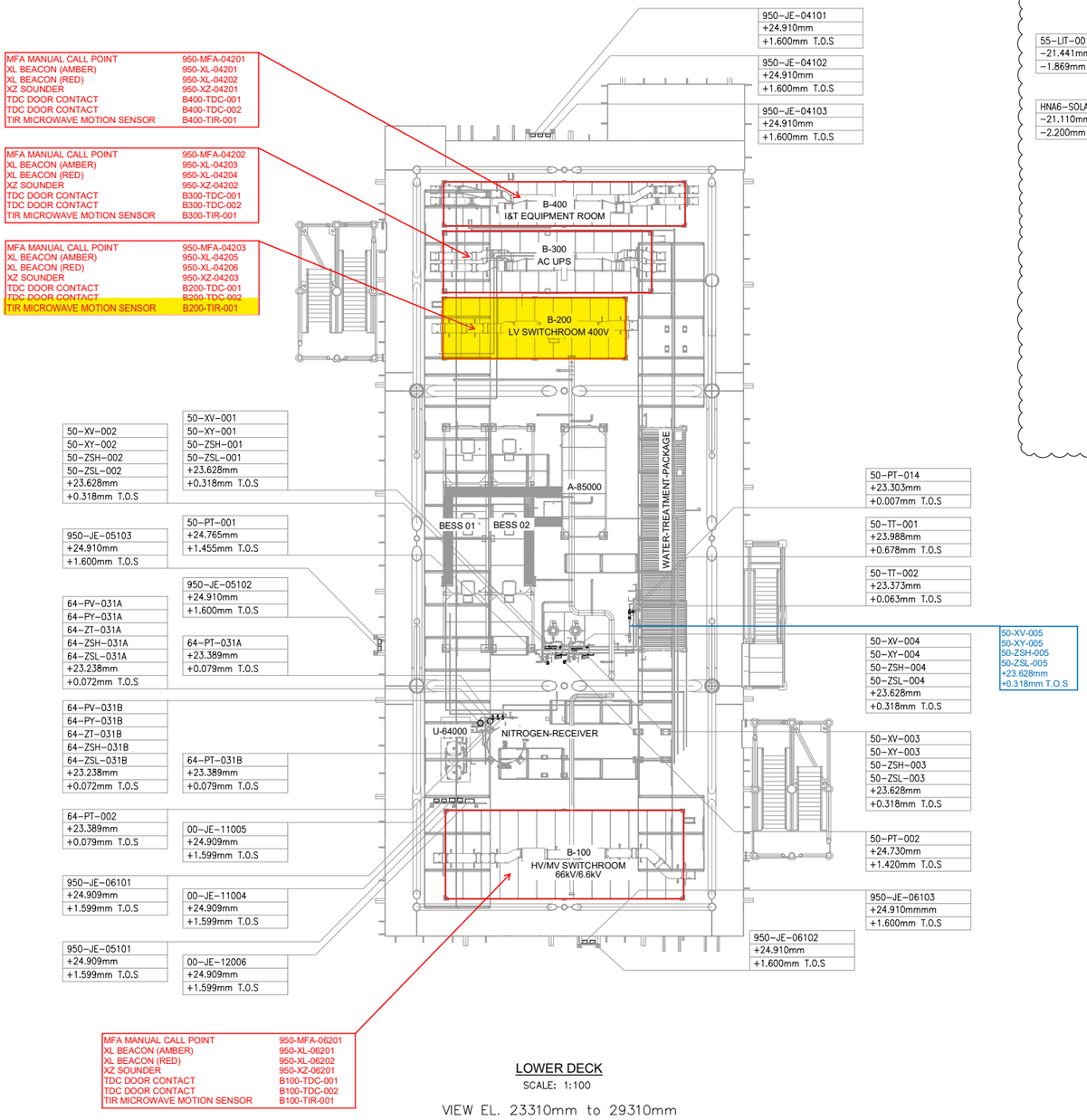
1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	NA
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

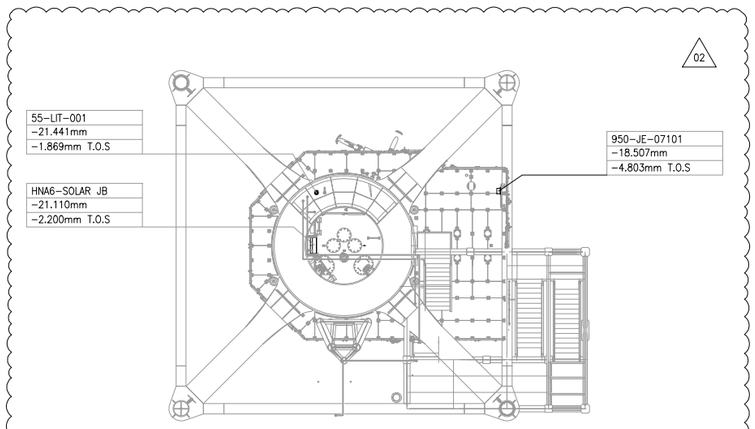
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-09	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-09T13:42:25.363Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-11T17:57:13.622Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

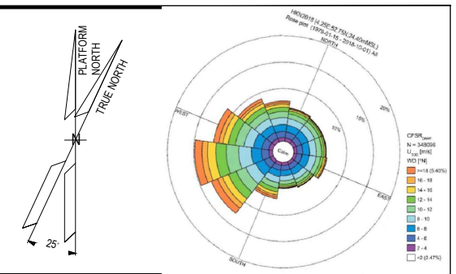
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

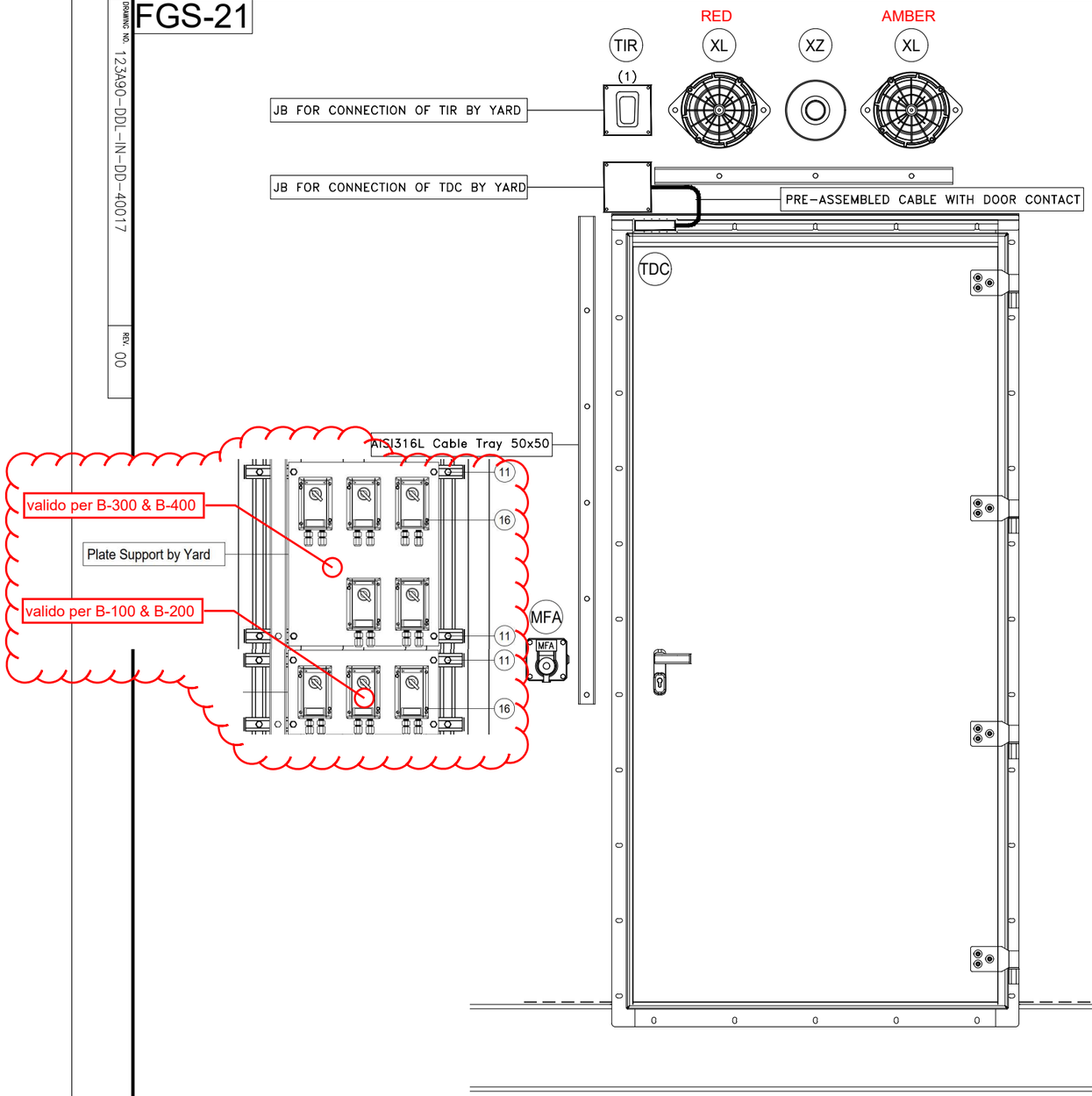
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

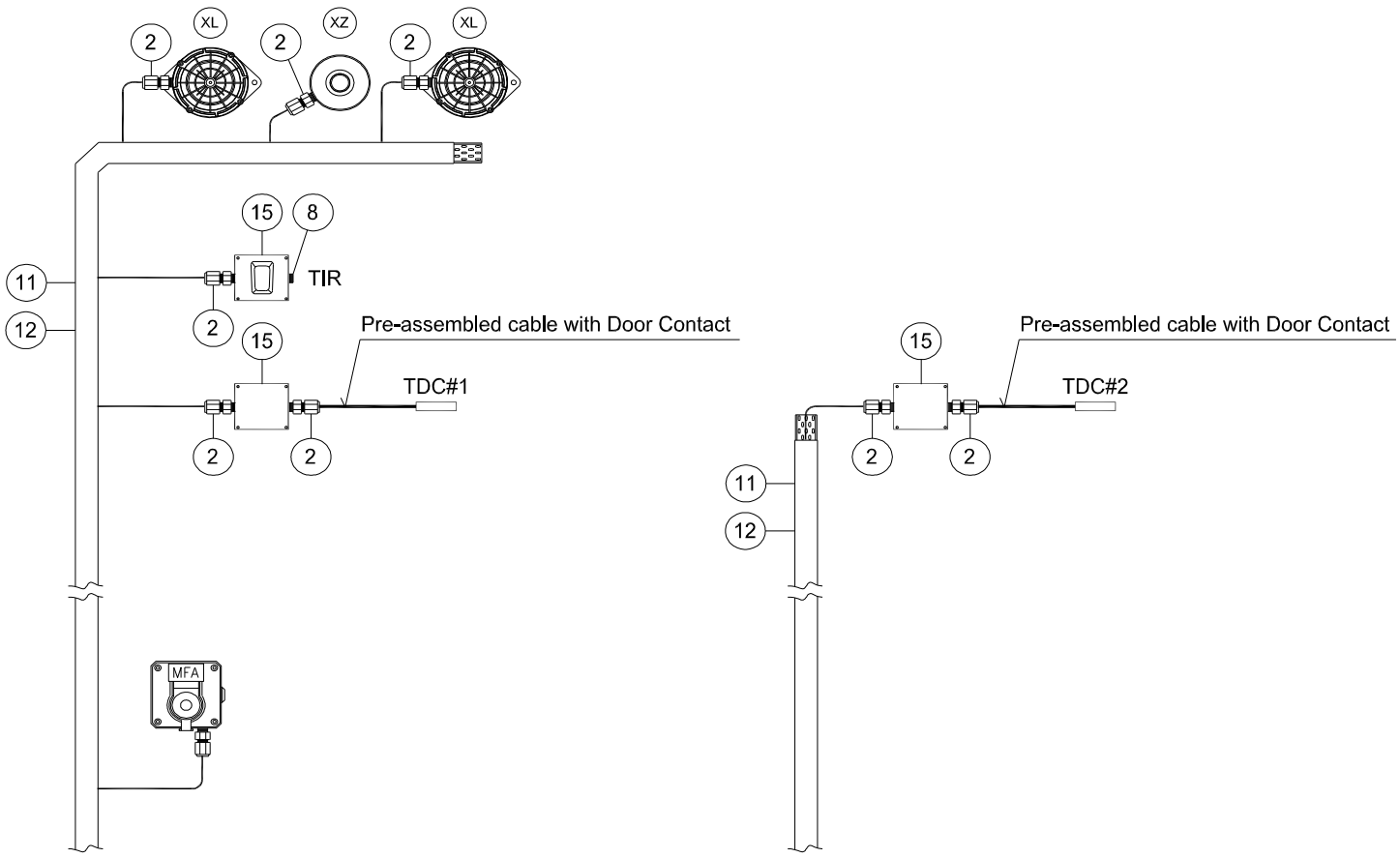
TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DD-40017	041	01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Dual Technology outdoor motion sensor

The Mini Dual variants are outdoor motion sensors and alarm triggers that use two independent passive infrared detectors plus a microwave sensor module. All three sensors must trigger to cause the detector to signal an alarm. They use triple detection technology to deliver precise, reliable presence detection.

Easy and quick to install

Programmable options include a variable pulse count and LED able/disable functionality. Moreover, the integral dual-axis tilt sensor allows 90º of pan and 45º of tilt, which increases the speed of the outdoor installation and provides incredibly accurate aiming of the detection pattern.

Aesthetics and hidden sensor module

The design has a neat appearance that gives no visible indication of the orientation of the detector head and totally hides the wiring. It blends smoothly into residential outdoor applications.



Details

- New outdoor family containing wired PIR, 2 Dual Technology variants and wireless PIR
- Attractive aesthetics
- 14 to 70º detection angle
- 90º pan & 45º tilt for flexible installation
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 5 years warranty

6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Technical specifications

General

Technology	Dual
Application type	Wall mount
Anti masking	No
Pet immune	No
Camera	No
Processor	Digital microprocessor with nonvolatile memory

Detection

Max. detection range	15 m
Detection range	14 to 70° detection angle, 15 x 13 m
No. of curtains	21
Microwave frequency (nom.)	24 GHz
Undercrawl protection	No
Fresnel lens	20 zones for each detection element, which can be masked with the curtain sliders
Microwave module	X-band radar 24 GHz
Adjustment	90° pan, 45° tilt
Customized optics	Double silicon shielded quad element eliminates 50,000 lux of white light
Pulse count	1 or 2

Wired / wireless

Wired-wireless	Wired

Inputs / outputs

Alarm relay characteristic	NC, volt free relay, signal contact 24 VAC/DC @ 50 mA with an integral 25 Ohm series resistor

Electrical

Power supply value	10 to 15 VDC
Current consumption	8 mA (12 V nominal)

Physical

Physical dimensions	71 x 120 x 75 mm (W x H x D)
Net weight	225 g
Shipping weight	325 g
Colour	Bronze
Material	High impact ABS plastic with HDPE cover, UV stabilized
Mounting height	3 to 6 m
Mounting height	Variable up to 6 m / Optimum height 3 m for full range

Environmental

Operating temperature	-30 to +65°C
Environment	Outdoor
IP rating	IP65
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment

Inputs / outputs

Outputs	Silent, solid state, magnetically immune. PIR AND Microwave

LED

	Orange : Microwave activated
	Red : PIR activated
	Orange & Red : Detector alarm

As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 27 September 2023 - 15:01

ITEM	Tag	B300-TDC-001	: Proximity Switch (B-300)			Dwg	123A90-DDL-IN-DL-40080
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation			Module	LD_B-300
TASK	code	C10002334		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX00 Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	OK
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:07:15.309Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T14:45:15.747Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

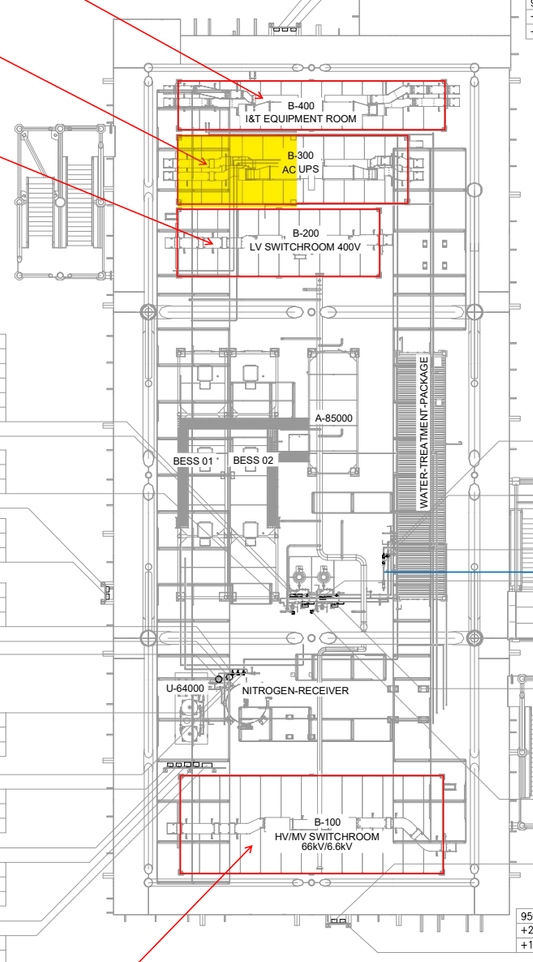
MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S



50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001
50-XY-001
50-ZSH-001
50-ZSL-001
+23.628mm
+0.318mm T.O.S

950-JE-05103
+24.910mm
+1.600mm T.O.S

50-PT-001
+24.765mm
+1.455mm T.O.S

950-JE-05102
+24.910mm
+1.600mm T.O.S

64-PV-031A
64-PY-031A
64-ZT-031A
64-ZSH-031A
64-ZSL-031A
+23.238mm
+0.072mm T.O.S

64-PT-031A
+23.389mm
+0.079mm T.O.S

64-PV-031B
64-PY-031B
64-ZT-031B
64-ZSH-031B
64-ZSL-031B
+23.238mm
+0.072mm T.O.S

64-PT-031B
+23.389mm
+0.079mm T.O.S

64-PT-002
+23.389mm
+0.079mm T.O.S

00-JE-11005
+24.909mm
+1.599mm T.O.S

950-JE-06101
+24.909mm
+1.599mm T.O.S

00-JE-11004
+24.909mm
+1.599mm T.O.S

950-JE-05101
+24.909mm
+1.599mm T.O.S

00-JE-12006
+24.909mm
+1.599mm T.O.S

50-PT-014
+23.303mm
+0.007mm T.O.S

50-TT-001
+23.988mm
+0.678mm T.O.S

50-TT-002
+23.373mm
+0.063mm T.O.S

50-XV-004
50-XY-004
50-ZSH-004
50-ZSL-004
+23.628mm
+0.318mm T.O.S

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003
50-XY-003
50-ZSH-003
50-ZSL-003
+23.628mm
+0.318mm T.O.S

50-PT-002
+24.730mm
+1.420mm T.O.S

950-JE-06103
+24.910mmmm
+1.600mm T.O.S

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

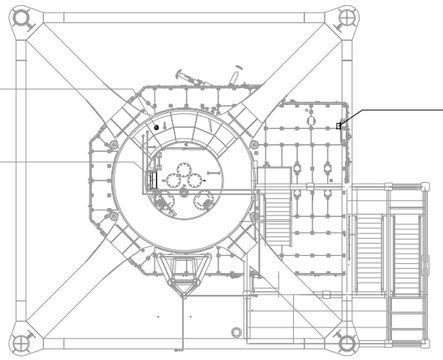
VIEW EL. 23310mm to 29310mm

02

55-LIT-001
-21.441mm
-1.869mm T.O.S

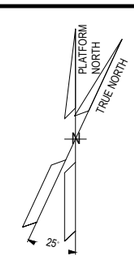
HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

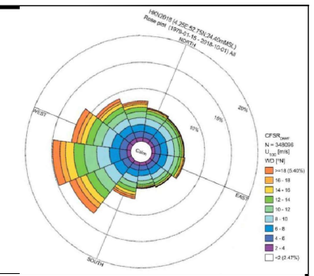
950-JE-07101
-18.507mm
-4.803mm T.O.S



TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm





NOTES

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2. ELEVATIONS REFER TO T.O.S.
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LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

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123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
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123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

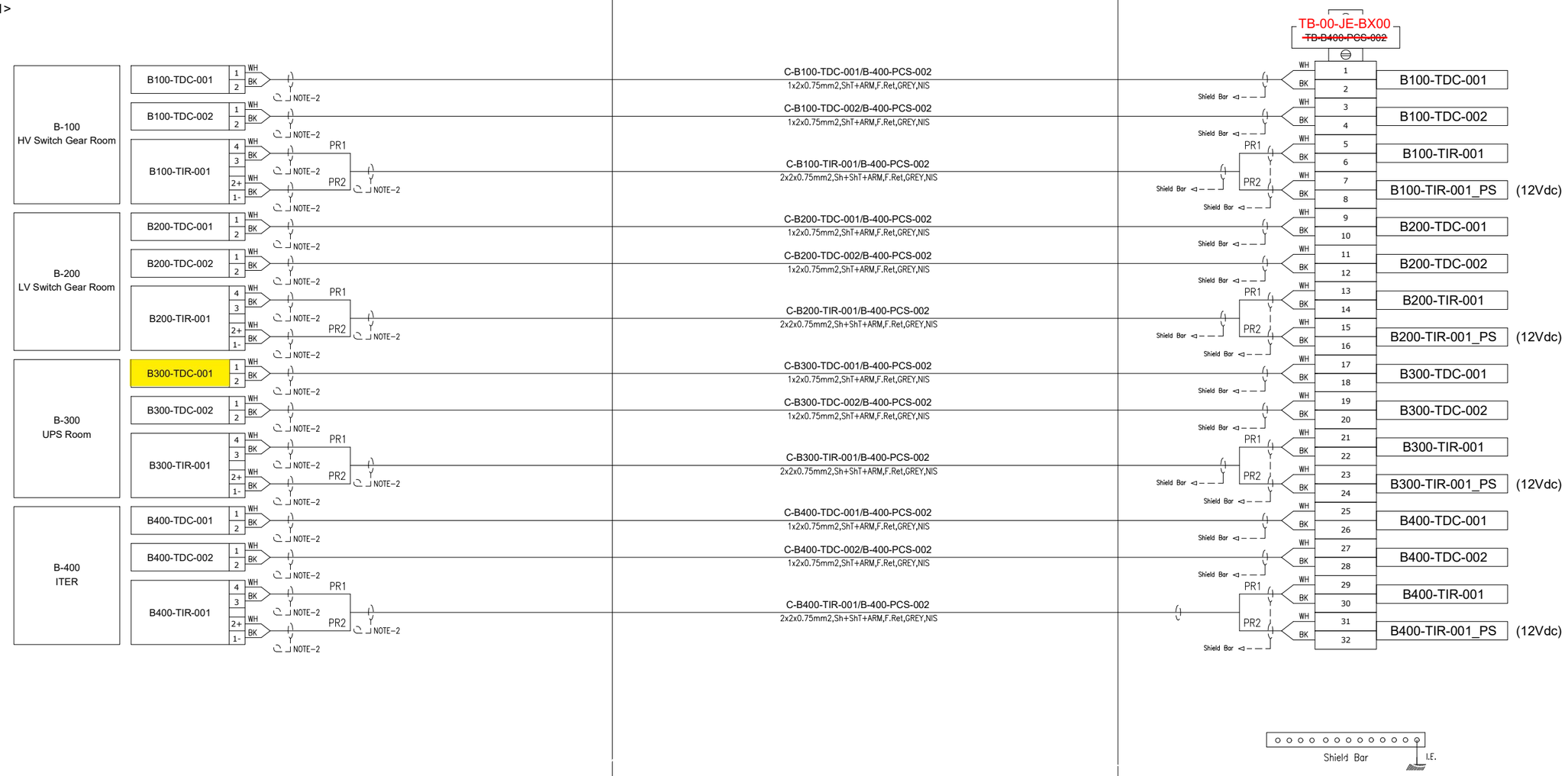
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

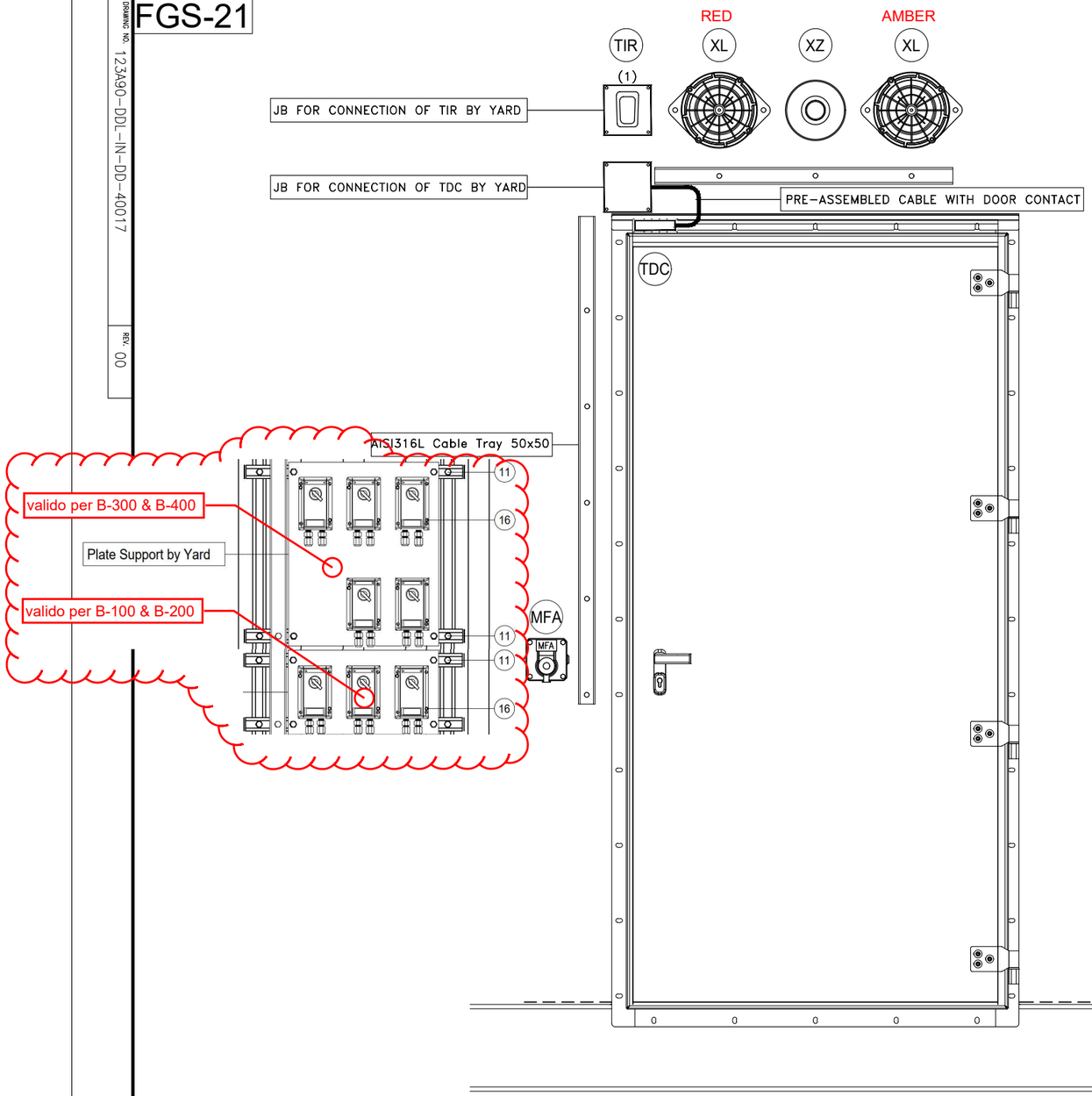
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
B-100	XL	BEACON (RED)	950-XL-06202
~~B-101~~	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
(1)	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
B-200	XL	BEACON (RED)	950-XL-04206
~~B-201~~	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
(1)	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
B-300	XL	BEACON (RED)	950-XL-04204
~~B-301~~	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
B-400	XL	BEACON (RED)	950-XL-04202
~~B-401~~	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001
(1)			

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

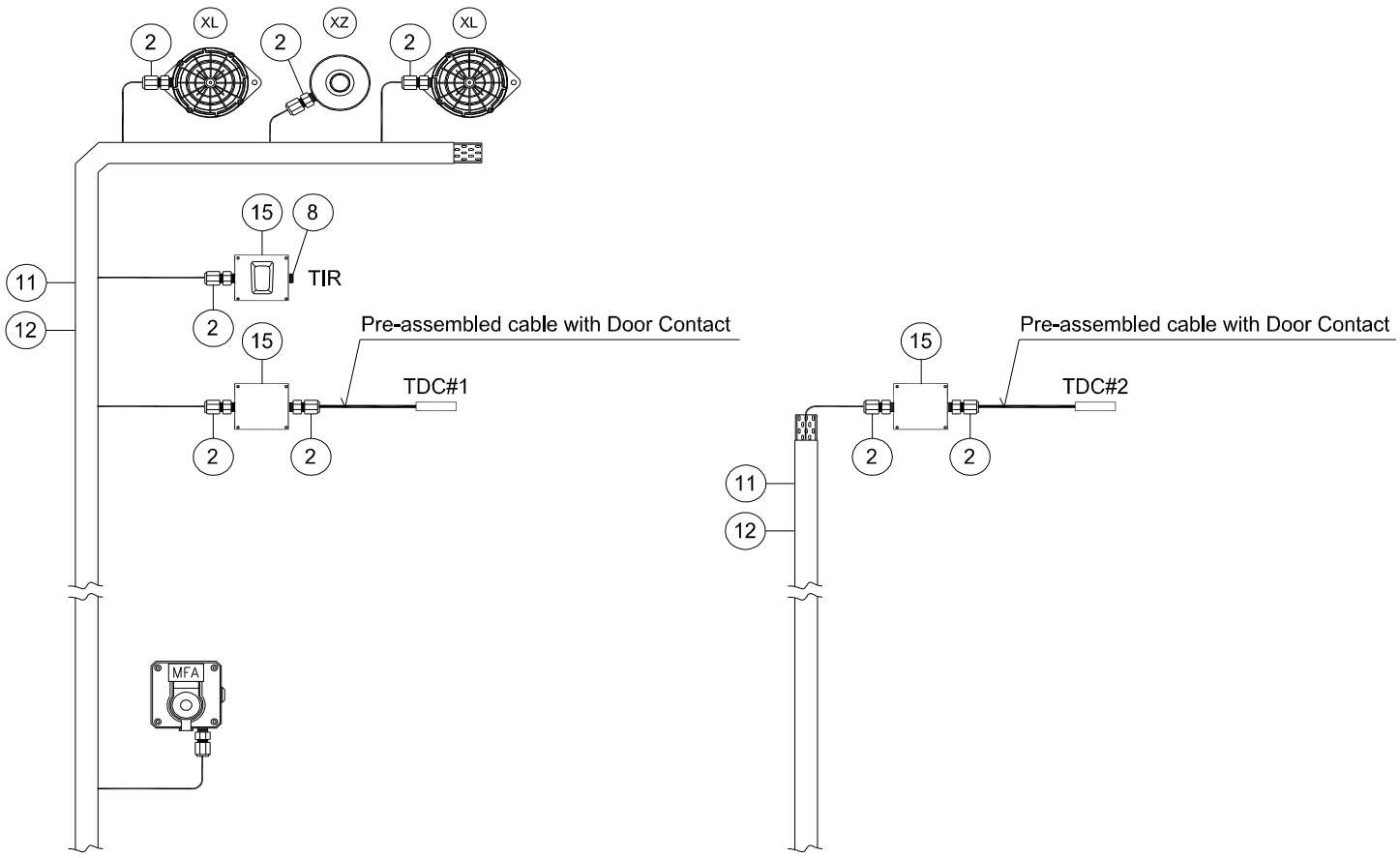
TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO. 123A90-DDL-IN-DD-40017	SHEET 041	REV. 01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DC108

Surface, overhead, floor mount contact

Overhead door magnetic contact

The DC108 series overhead door magnetic contact is for use in the rigorous environments of commercial and industrial installations. The floor mount units are constructed with a low profile heavy cast aluminium housing. The reed switch assembly is fully encased in an exclusive polyurethane potting material to prevent damage due to moisture or humidity.

Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

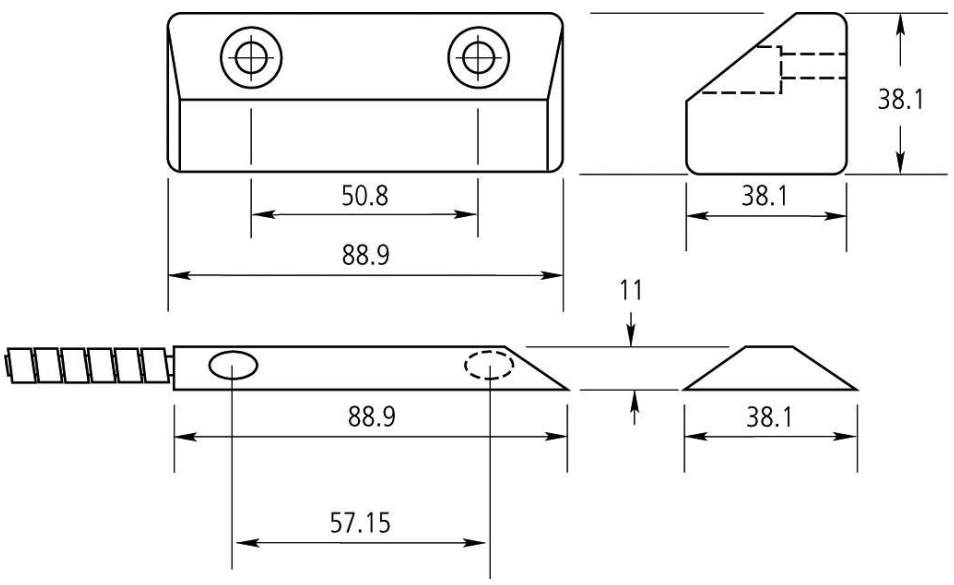
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B300-TDC-002	: Proximity Switch (B-300)		Dwg	123A90-DDL-IN-DL-40080	
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation		Module	LD_B-300	
TASK	code	C10002335	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Instrumental	Form	CJX00	Miscellaneous

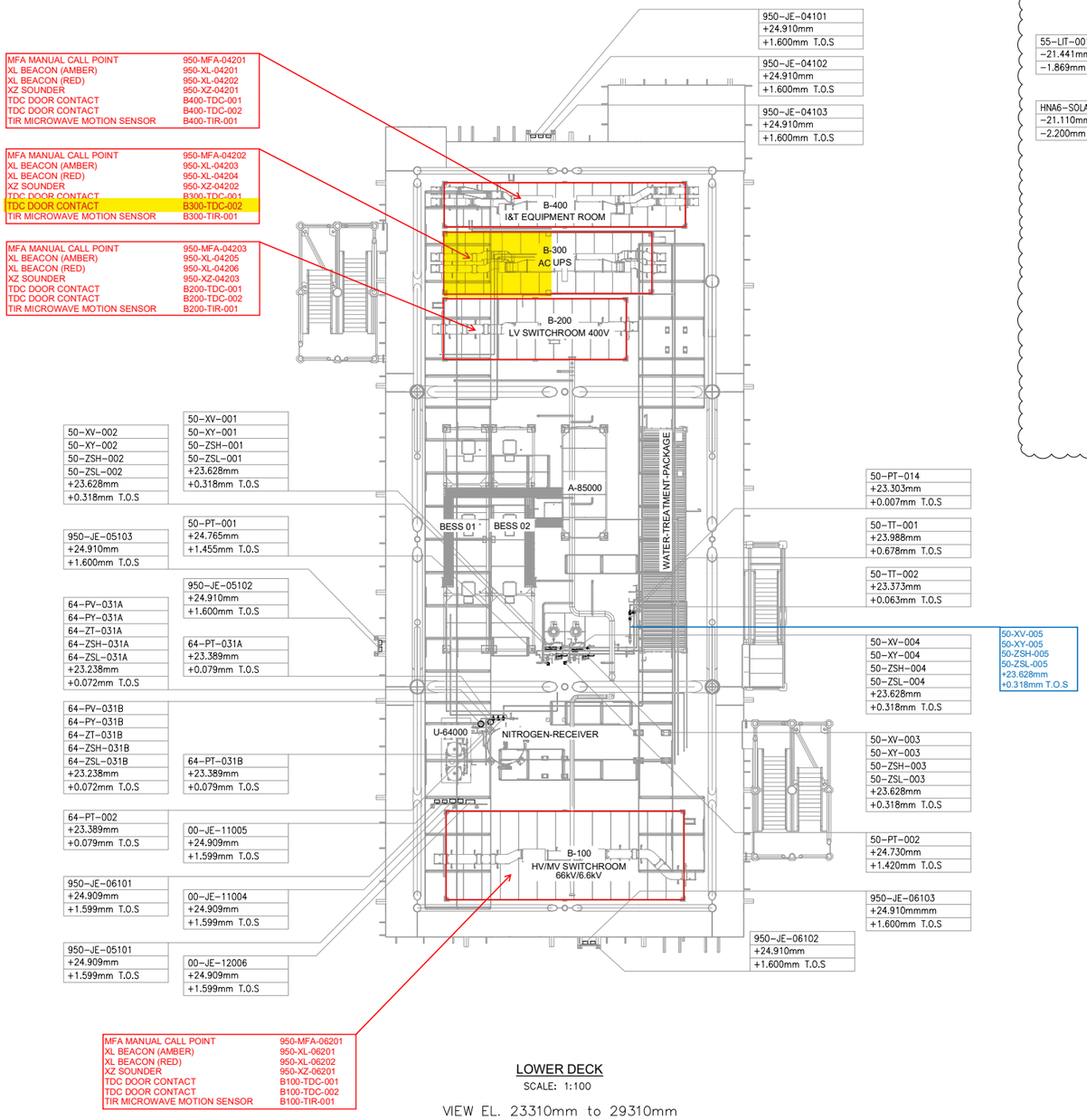
1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	OK
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

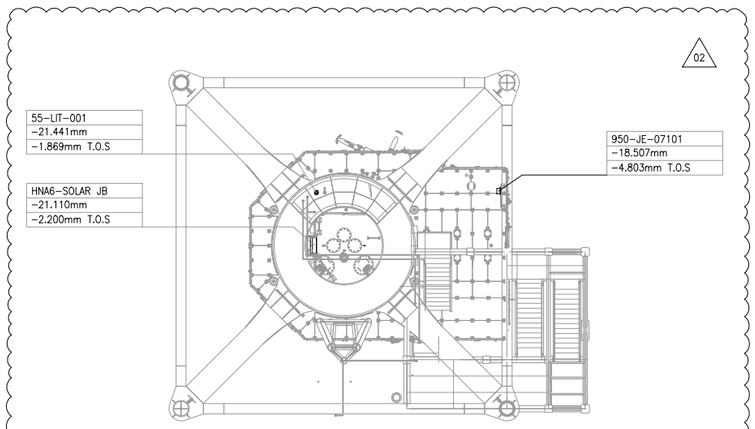
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:11:19.005Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T14:46:51.405Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

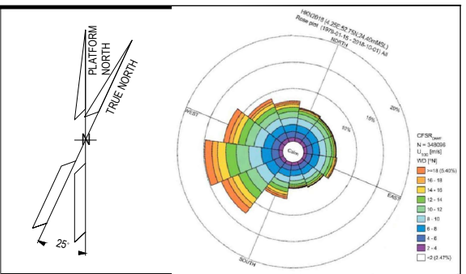
REV. 02



LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

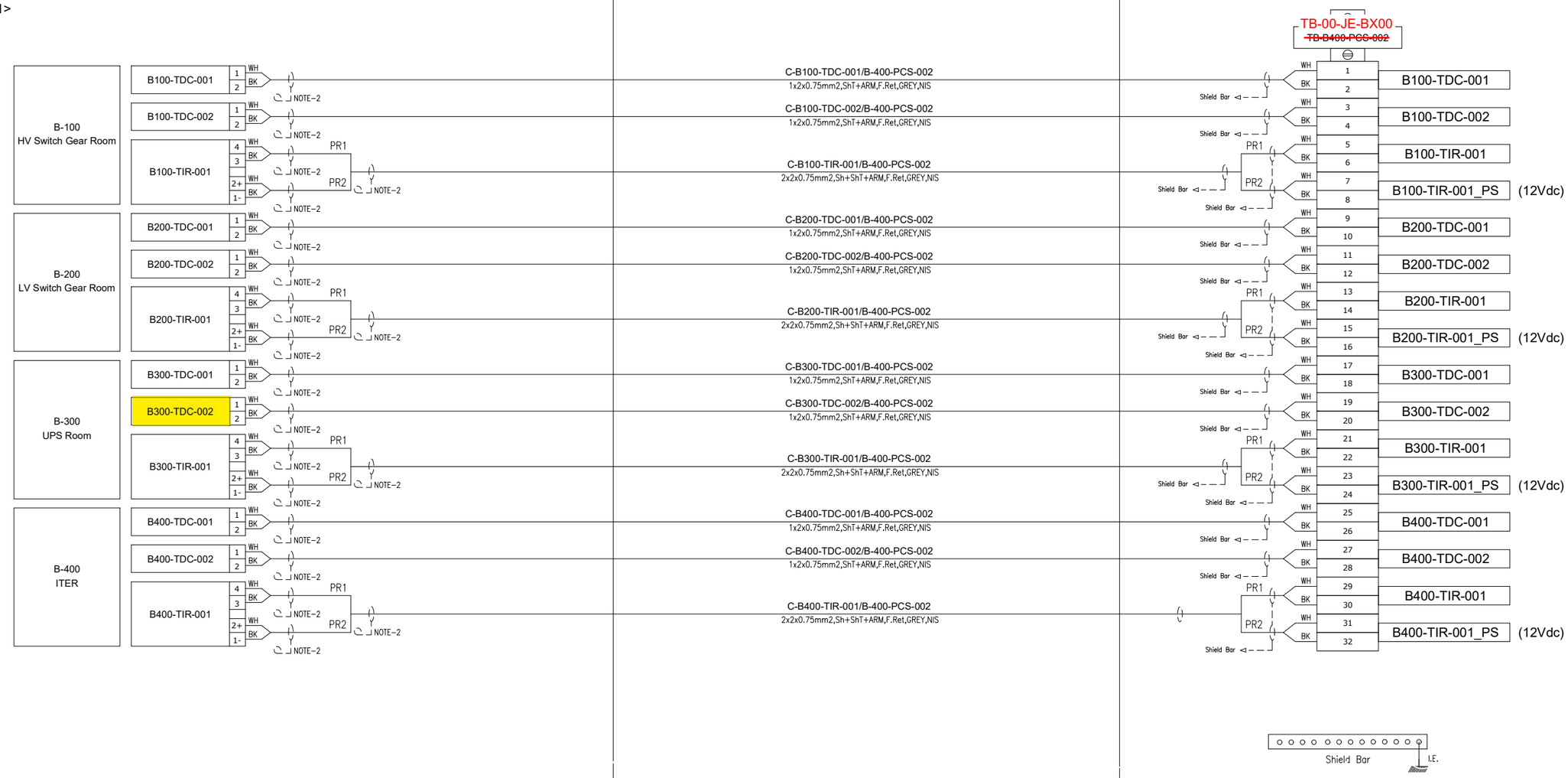
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

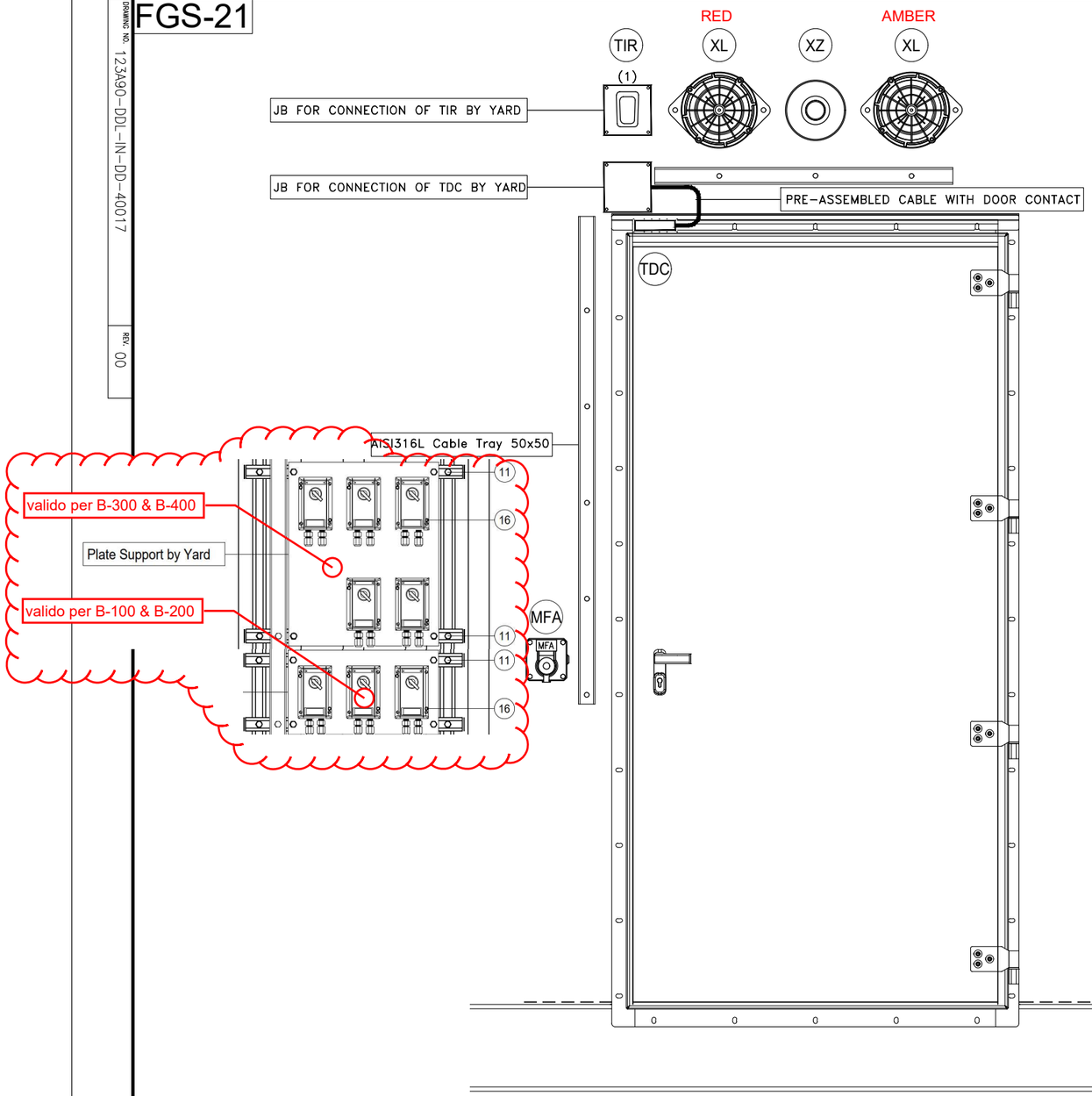
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

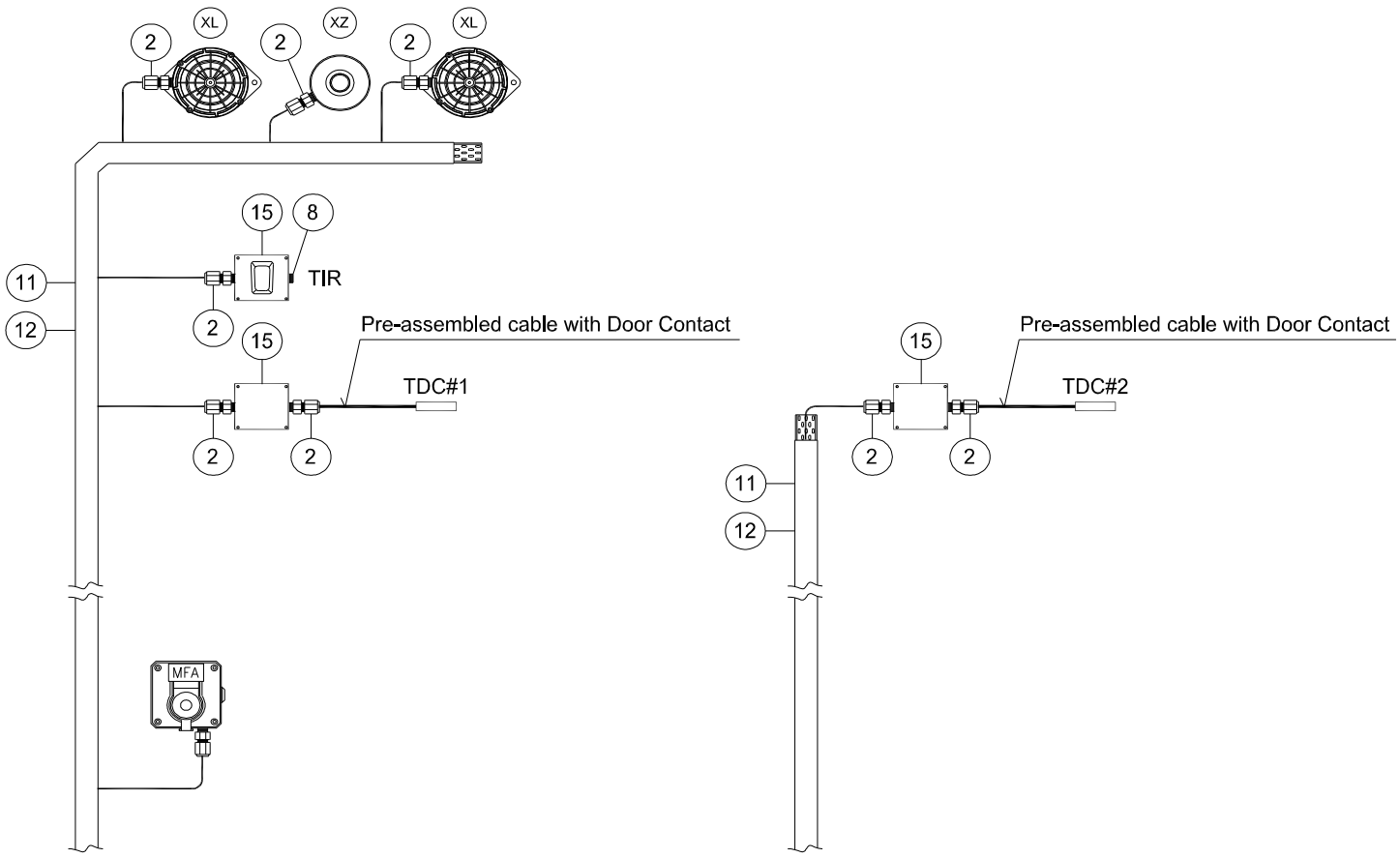
BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE | SCALE /

DRAWN VBA | CHECKED LCA | APPROVED DLO | DATE 11/07/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DD-40017	041	01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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DC108

Surface, overhead, floor mount contact

Overhead door magnetic contact

The DC108 series overhead door magnetic contact is for use in the rigorous environments of commercial and industrial installations. The floor mount units are constructed with a low profile heavy cast aluminium housing. The reed switch assembly is fully encased in an exclusive polyurethane potting material to prevent damage due to moisture or humidity.

Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

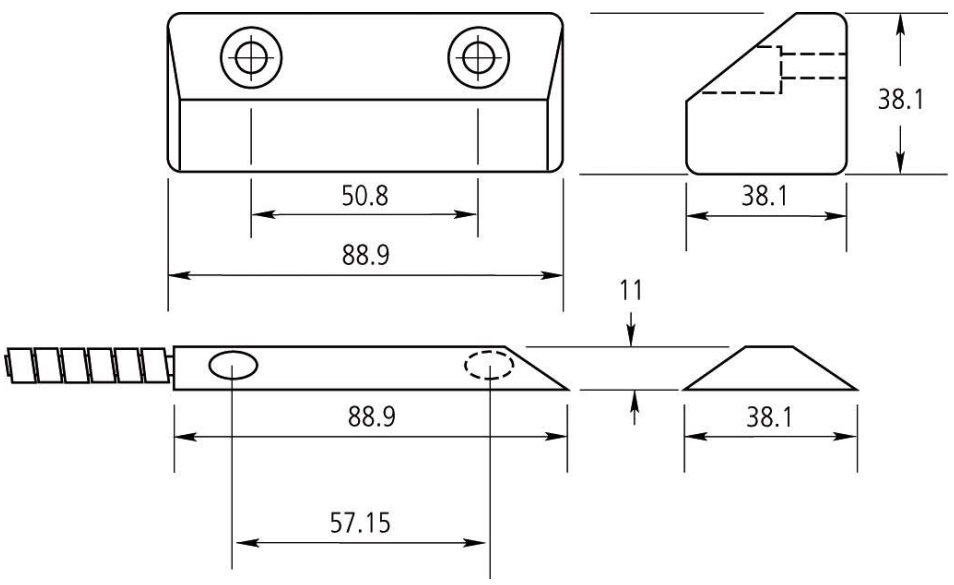
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B300-TIR-001	: Motion Detector (B-300)			Dwg	123A90-DDL-IN-DL-40080
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation			Module	LD_B-300
TASK	code	C10002336		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX00 Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	OK
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:11:30.547Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T14:52:46.918Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102	
+24.910mm	
+1.600mm T.O.S	

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

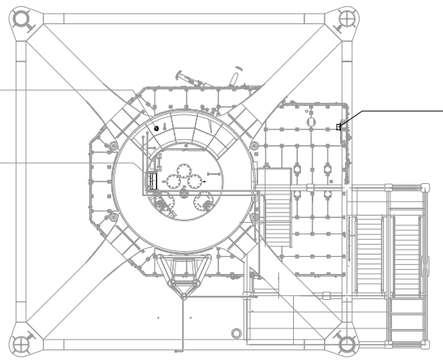
VIEW EL. 23310mm to 29310mm

02

55-LIT-001	
-21.441mm	
-1.869mm T.O.S	

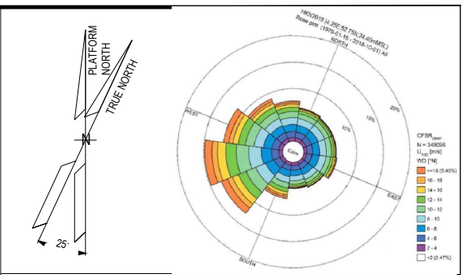
HNA6-SOLAR JB	
-21.110mm	
-2.200mm T.O.S	

950-JE-07101	
-18.507mm	
-4.803mm T.O.S	



TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

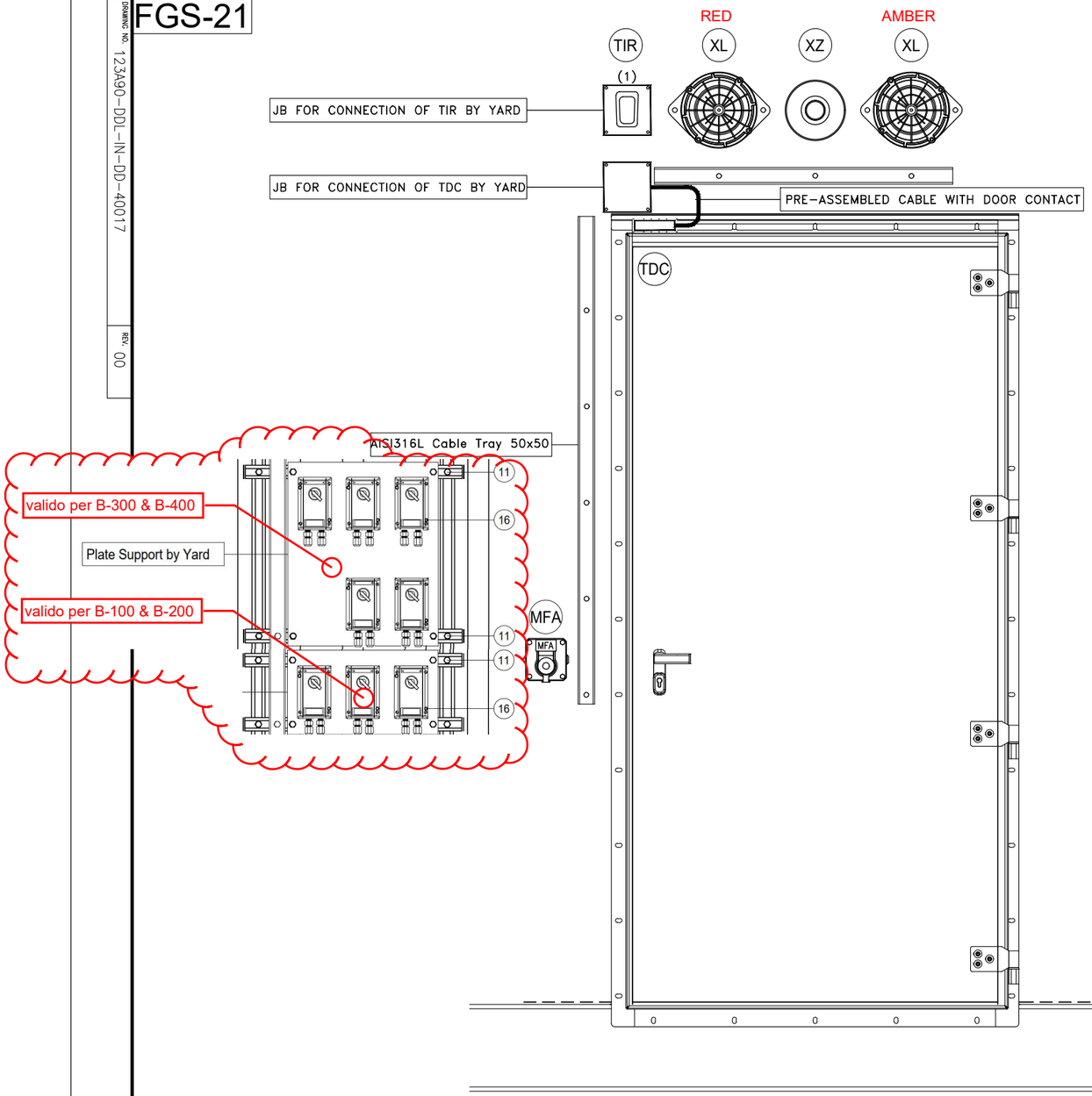
A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

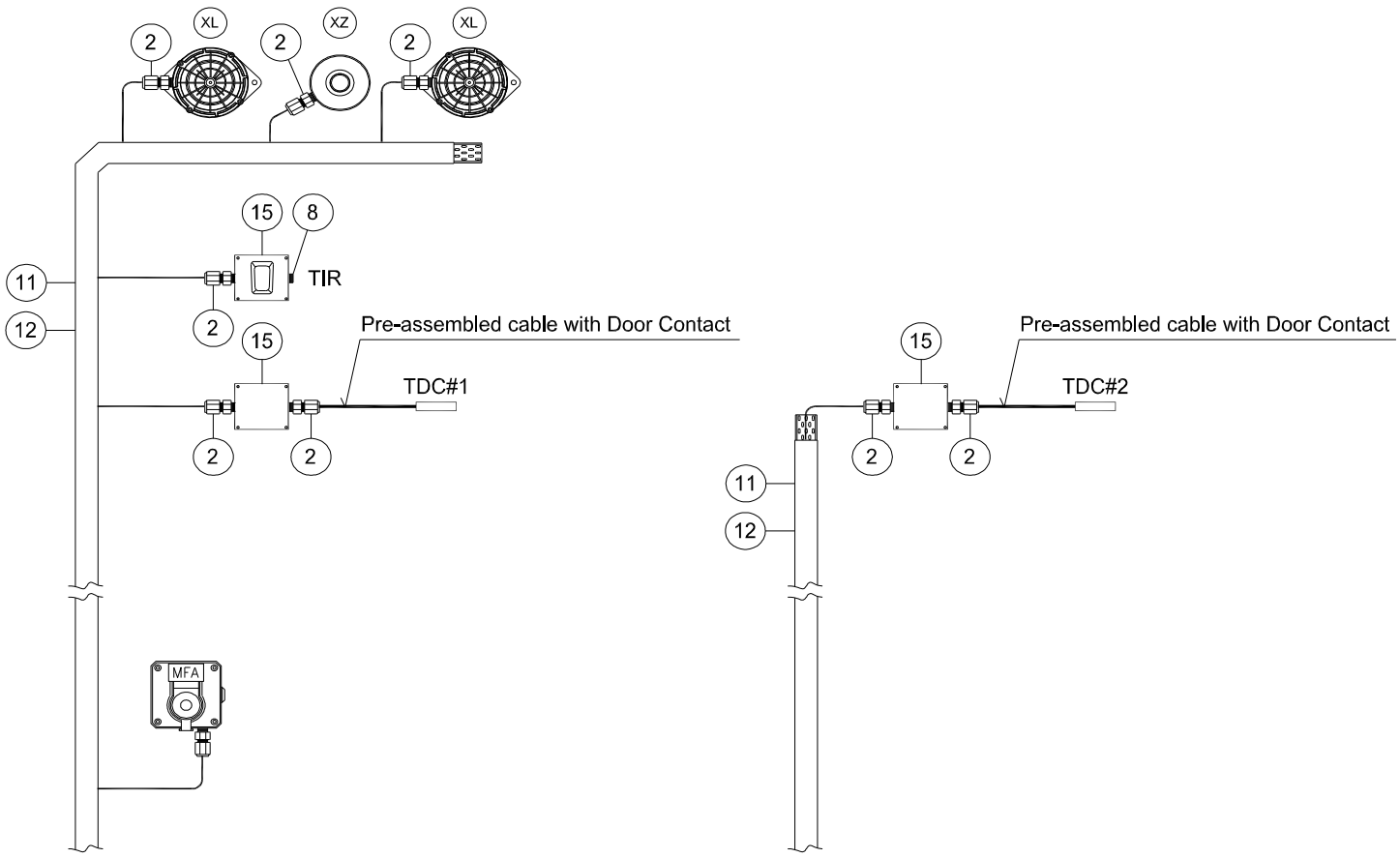
TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO. 123A90-DDL-IN-DD-40017	SHEET 041	REV. 01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Dual Technology outdoor motion sensor

The Mini Dual variants are outdoor motion sensors and alarm triggers that use two independent passive infrared detectors plus a microwave sensor module. All three sensors must trigger to cause the detector to signal an alarm. They use triple detection technology to deliver precise, reliable presence detection.

Easy and quick to install

Programmable options include a variable pulse count and LED able/disable functionality. Moreover, the integral dual-axis tilt sensor allows 90º of pan and 45º of tilt, which increases the speed of the outdoor installation and provides incredibly accurate aiming of the detection pattern.

Aesthetics and hidden sensor module

The design has a neat appearance that gives no visible indication of the orientation of the detector head and totally hides the wiring. It blends smoothly into residential outdoor applications.



Details

- New outdoor family containing wired PIR, 2 Dual Technology variants and wireless PIR
- Attractive aesthetics
- 14 to 70º detection angle
- 90º pan & 45º tilt for flexible installation
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 5 years warranty

6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Technical specifications

General

Technology	Dual
Application type	Wall mount
Anti masking	No
Pet immune	No
Camera	No
Processor	Digital microprocessor with nonvolatile memory

Detection

Max. detection range	15 m
Detection range	14 to 70° detection angle, 15 x 13 m
No. of curtains	21
Microwave frequency (nom.)	24 GHz
Undercrawl protection	No
Fresnel lens	20 zones for each detection element, which can be masked with the curtain sliders
Microwave module	X-band radar 24 GHz
Adjustment	90° pan, 45° tilt
Customized optics	Double silicon shielded quad element eliminates 50,000 lux of white light
Pulse count	1 or 2

Wired / wireless

Wired-wireless	Wired

Inputs / outputs

Alarm relay characteristic	NC, volt free relay, signal contact 24 VAC/DC @ 50 mA with an integral 25 Ohm series resistor

Electrical

Power supply value	10 to 15 VDC
Current consumption	8 mA (12 V nominal)

Physical

Physical dimensions	71 x 120 x 75 mm (W x H x D)
Net weight	225 g
Shipping weight	325 g
Colour	Bronze
Material	High impact ABS plastic with HDPE cover, UV stabilized
Mounting height	3 to 6 m
Mounting height	Variable up to 6 m / Optimum height 3 m for full range

Environmental

Operating temperature	-30 to +65°C
Environment	Outdoor
IP rating	IP65
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment

Inputs / outputs

Outputs	Silent, solid state, magnetically immune. PIR AND Microwave

LED

	Orange : Microwave activated
	Red : PIR activated
	Orange & Red : Detector alarm

As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 27 September 2023 - 15:01

ITEM	Tag	B400-TDC-001	: Proximity Switch (B-400)		Dwg	123A90-DDL-IN-DL-40080	
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation		Module	LD_B-400	
TASK	code	C10002337	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Instrumental	Form	CJX00	Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	OK
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:11:46.656Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T14:50:22.842Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002	
50-XY-002	
50-ZSH-002	
50-ZSL-002	
+23.628mm	
+0.318mm T.O.S	

50-XV-001	
50-XY-001	
50-ZSH-001	
50-ZSL-001	
+23.628mm	
+0.318mm T.O.S	

50-PT-001	
+24.765mm	
+1.455mm T.O.S	

950-JE-05103	
+24.910mm	
+1.600mm T.O.S	

950-JE-05102	
+24.910mm	
+1.600mm T.O.S	

64-PV-031A	
64-PY-031A	
64-ZT-031A	
64-ZSH-031A	
64-ZSL-031A	
+23.238mm	
+0.072mm T.O.S	

64-PT-031A	
+23.389mm	
+0.079mm T.O.S	

64-PV-031B	
64-PY-031B	
64-ZT-031B	
64-ZSH-031B	
64-ZSL-031B	
+23.238mm	
+0.072mm T.O.S	

64-PT-031B	
+23.389mm	
+0.079mm T.O.S	

64-PT-002	
+23.389mm	
+0.079mm T.O.S	

00-JE-11005	
+24.909mm	
+1.599mm T.O.S	

950-JE-06101	
+24.909mm	
+1.599mm T.O.S	

00-JE-11004	
+24.909mm	
+1.599mm T.O.S	

950-JE-05101	
+24.909mm	
+1.599mm T.O.S	

00-JE-12006	
+24.909mm	
+1.599mm T.O.S	

50-PT-014	
+23.303mm	
+0.007mm T.O.S	

50-TT-001	
+23.988mm	
+0.678mm T.O.S	

50-TT-002	
+23.373mm	
+0.063mm T.O.S	

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-004	
50-XY-004	
50-ZSH-004	
50-ZSL-004	
+23.628mm	
+0.318mm T.O.S	

50-XV-003	
50-XY-003	
50-ZSH-003	
50-ZSL-003	
+23.628mm	
+0.318mm T.O.S	

50-PT-002	
+24.730mm	
+1.420mm T.O.S	

950-JE-06103	
+24.910mmmm	
+1.600mm T.O.S	

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm

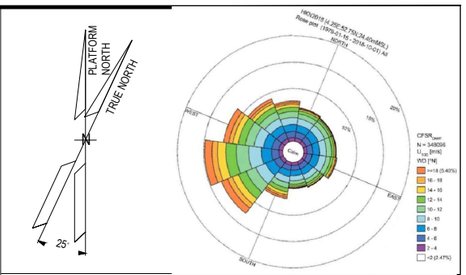
02

55-LIT-001
-21.441mm
-1.869mm T.O.S

HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S

TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm



NOTES

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2. ELEVATIONS REFER TO T.O.S.
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LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

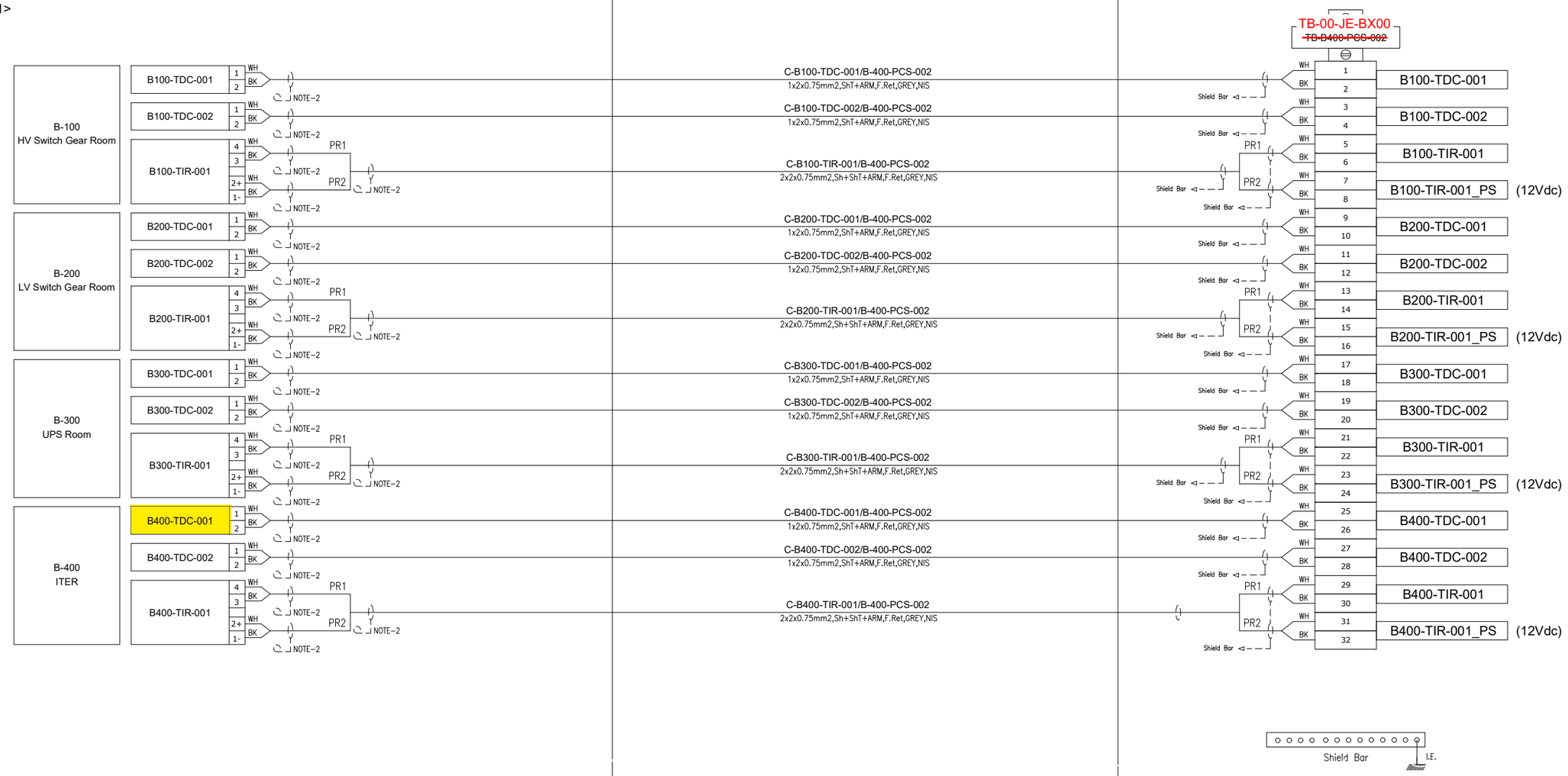
File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

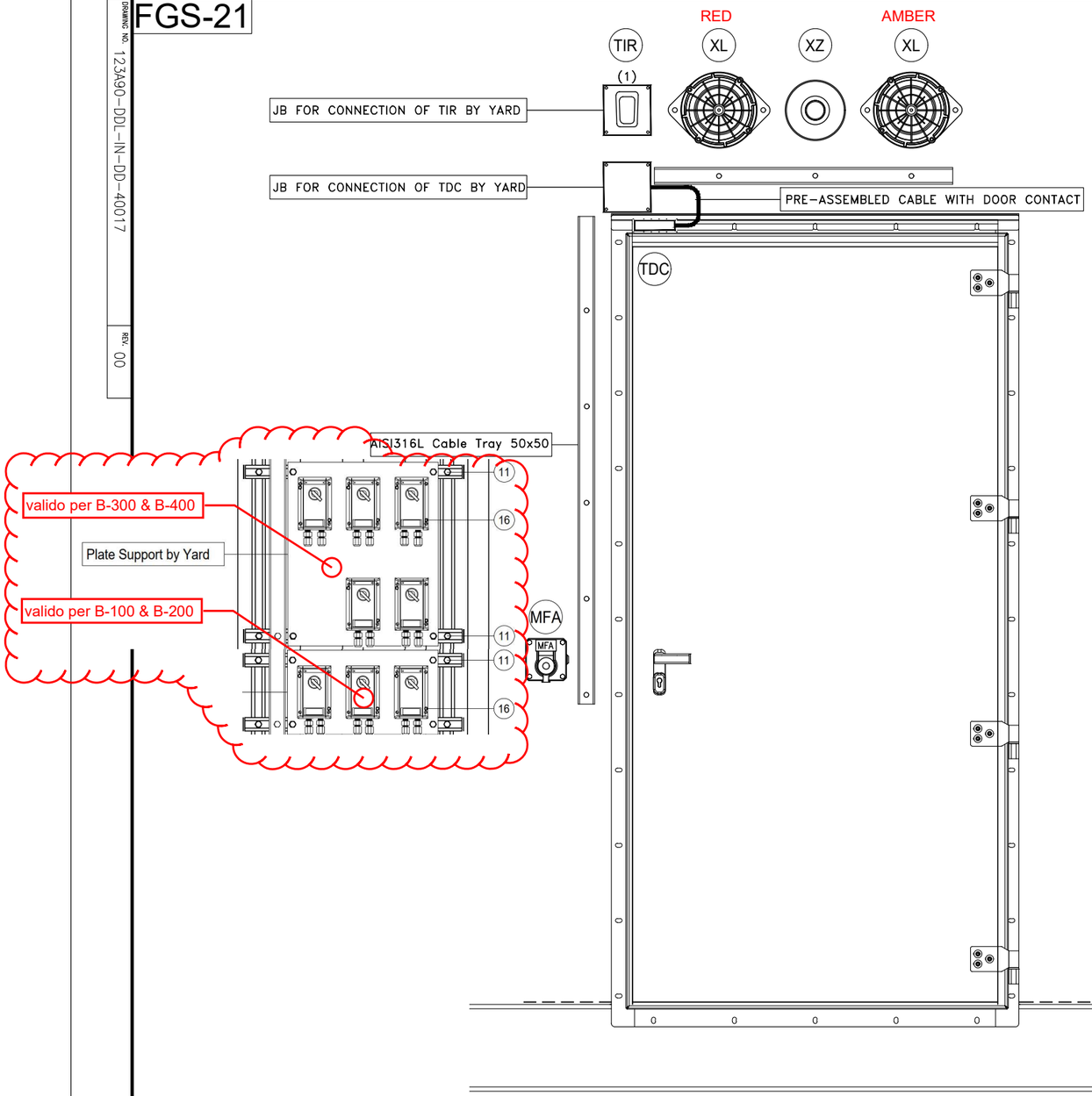
	DRAWING NO.	SHEET	REV.
A3	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

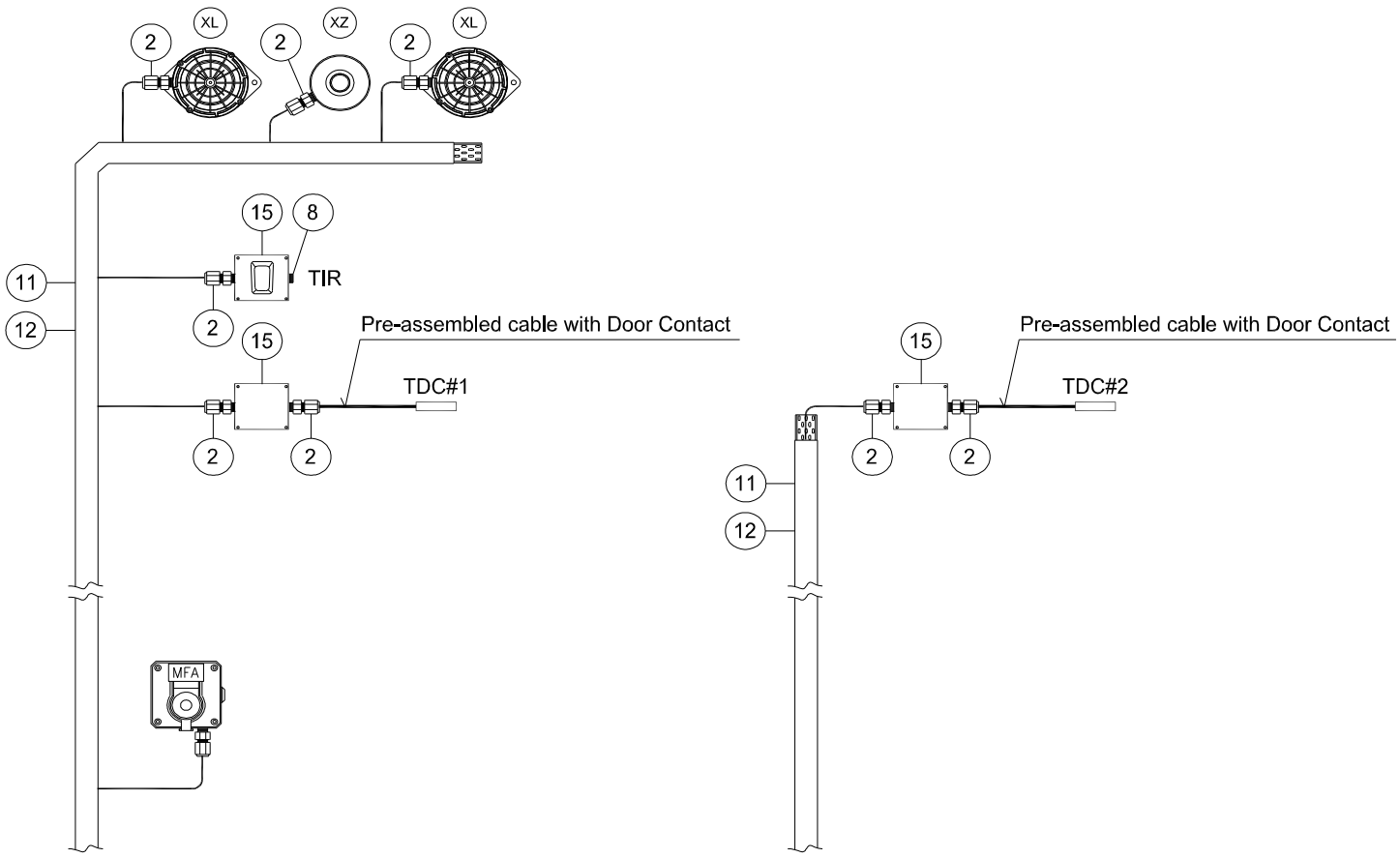
TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO. 123A90-DDL-IN-DD-40017	SHEET 041	REV. 01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DC108

Surface, overhead, floor mount contact

Overhead door magnetic contact

The DC108 series overhead door magnetic contact is for use in the rigorous environments of commercial and industrial installations. The floor mount units are constructed with a low profile heavy cast aluminium housing. The reed switch assembly is fully encased in an exclusive polyurethane potting material to prevent damage due to moisture or humidity.

Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

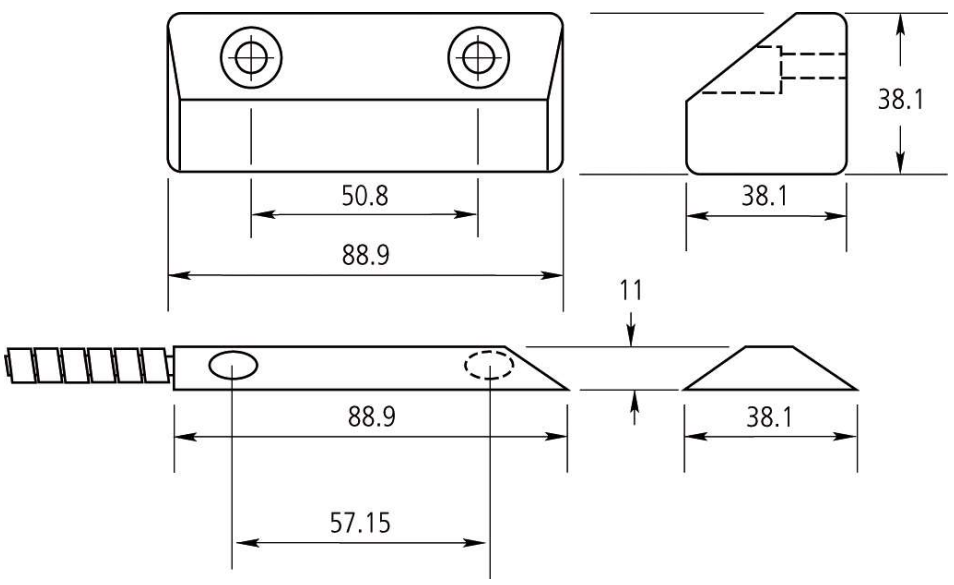
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B400-TDC-002	: Proximity Switch (B-400)		Dwg	123A90-DDL-IN-DL-40080	
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation		Module	LD_B-400	
TASK	code	C10002338	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Instrumental	Form	CJX00	Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	OK
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:13:32.686Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T14:51:27.675Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002
50-XY-002
50-ZSH-002
50-ZSL-002
+23.628mm
+0.318mm T.O.S

50-XV-001
50-XY-001
50-ZSH-001
50-ZSL-001
+23.628mm
+0.318mm T.O.S

950-JE-05103
+24.910mm
+1.600mm T.O.S

50-PT-001
+24.765mm
+1.455mm T.O.S

950-JE-05102
+24.910mm
+1.600mm T.O.S

64-PV-031A
64-PY-031A
64-ZT-031A
64-ZSH-031A
64-ZSL-031A
+23.238mm
+0.072mm T.O.S

64-PT-031A
+23.389mm
+0.079mm T.O.S

64-PV-031B
64-PY-031B
64-ZT-031B
64-ZSH-031B
64-ZSL-031B
+23.238mm
+0.072mm T.O.S

64-PT-031B
+23.389mm
+0.079mm T.O.S

64-PT-002
+23.389mm
+0.079mm T.O.S

00-JE-11005
+24.909mm
+1.599mm T.O.S

950-JE-06101
+24.909mm
+1.599mm T.O.S

00-JE-11004
+24.909mm
+1.599mm T.O.S

950-JE-05101
+24.909mm
+1.599mm T.O.S

00-JE-12006
+24.909mm
+1.599mm T.O.S

50-PT-014
+23.303mm
+0.007mm T.O.S

50-TT-001
+23.988mm
+0.678mm T.O.S

50-TT-002
+23.373mm
+0.063mm T.O.S

50-XV-004
50-XY-004
50-ZSH-004
50-ZSL-004
+23.628mm
+0.318mm T.O.S

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003
50-XY-003
50-ZSH-003
50-ZSL-003
+23.628mm
+0.318mm T.O.S

50-PT-002
+24.730mm
+1.420mm T.O.S

950-JE-06103
+24.910mmmm
+1.600mm T.O.S

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

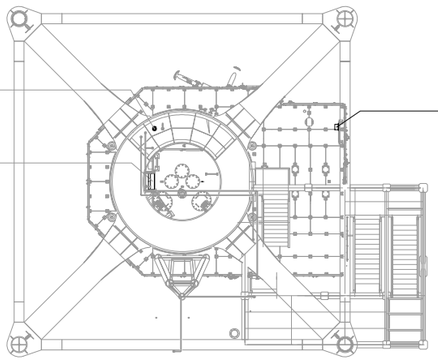
LOWER DECK
SCALE: 1:100
VIEW EL. 23310mm to 29310mm

02

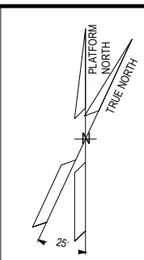
55-LIT-001
-21.441mm
-1.869mm T.O.S

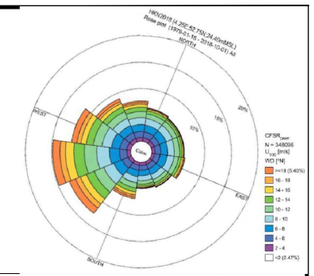
HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S



TRANSITION PIECE
SCALE: 1:100
VIEW EL. 17050mm to 23310mm





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

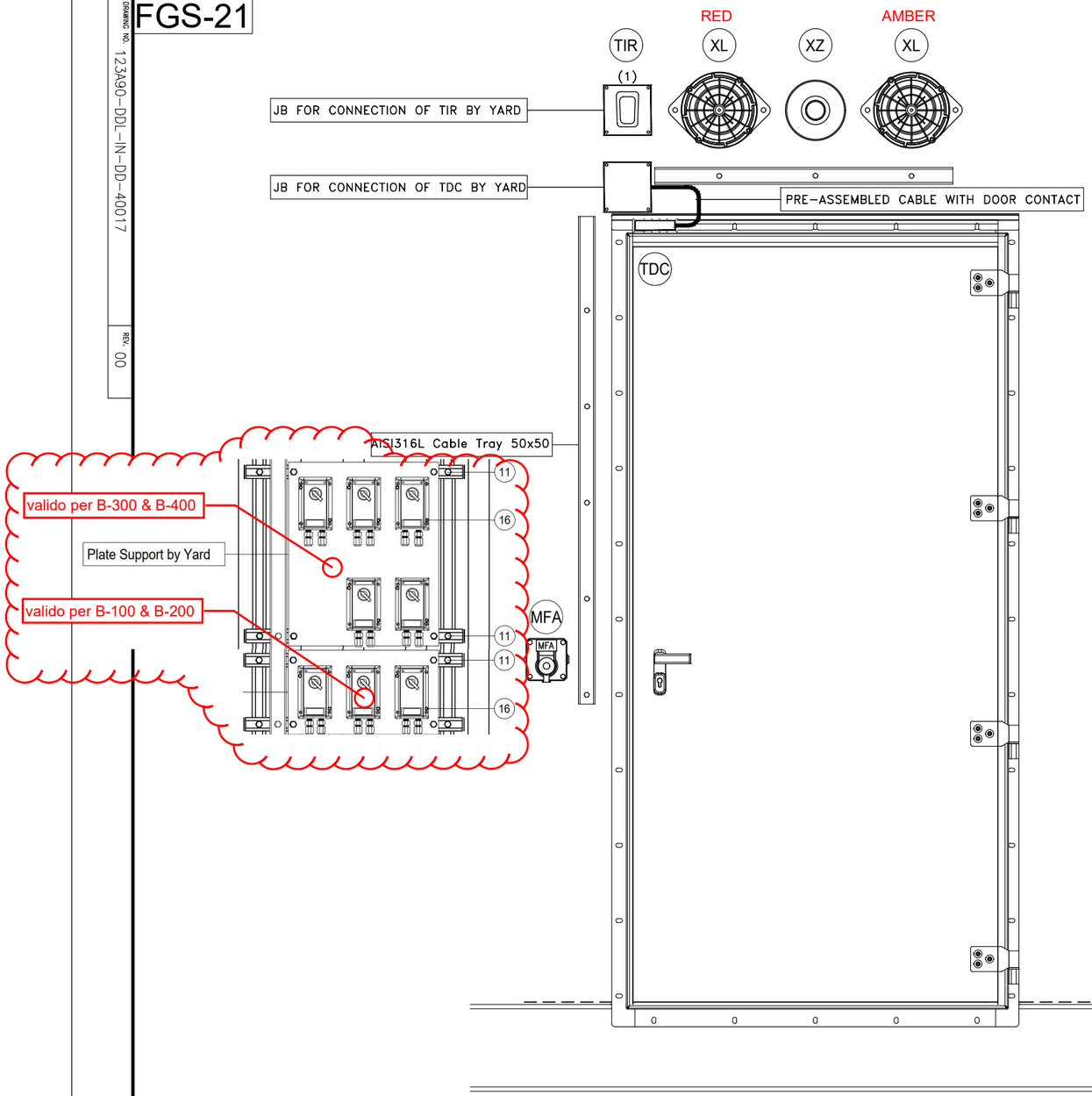
	DRAWING NO.	SHEET	REV.
A3	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

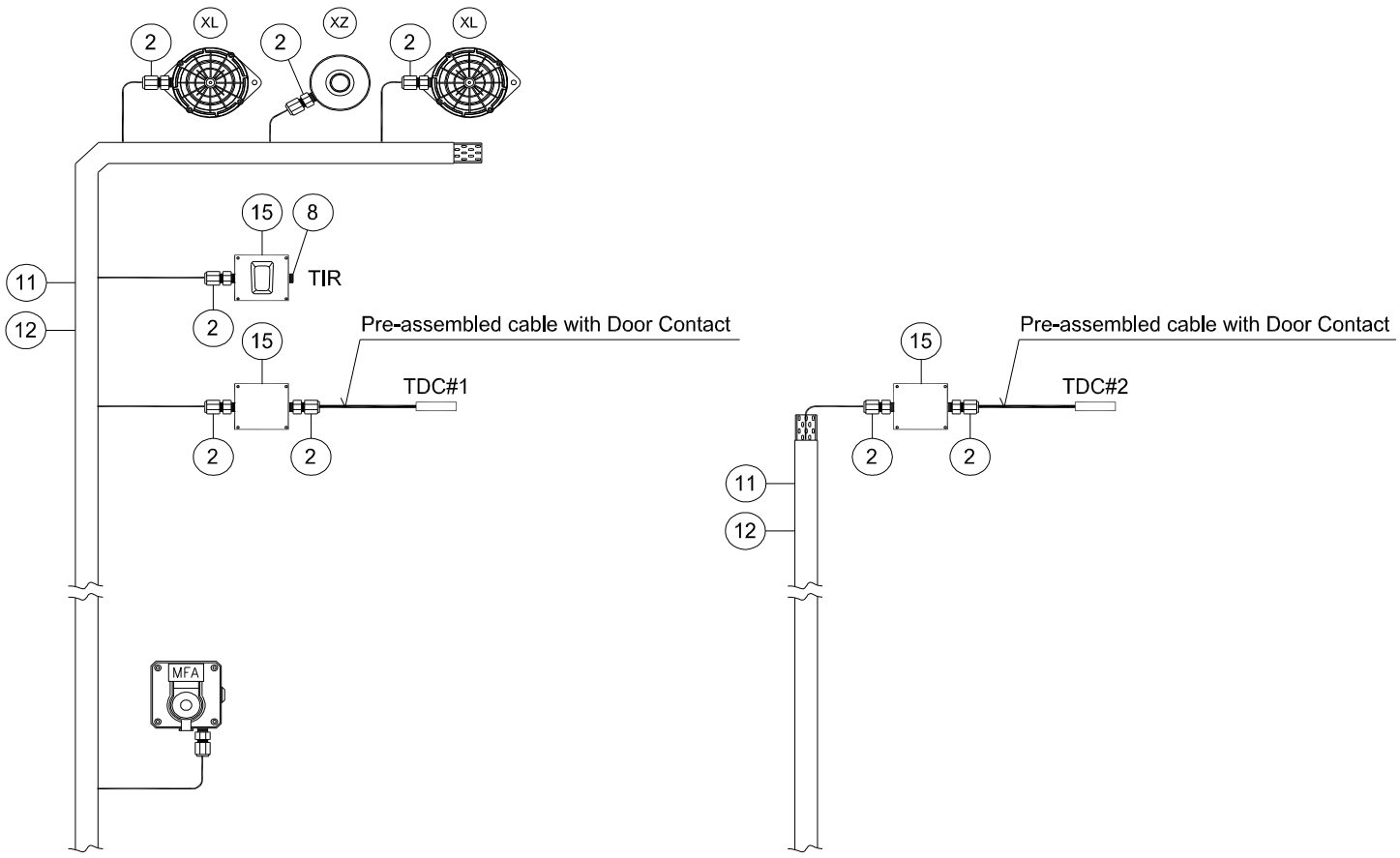
TITLE :

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INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO. 123A90-DDL-IN-DD-40017	SHEET 041	REV. 01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



EMERGENCY DOOR

MAIN DOOR

INSTRUMENT TAG	
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	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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Overhead door magnetic contact

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Easy installation

A wide operating gap distance of up to 7.5 cm makes installation easy and helps prevent false alarms caused by door movement or damaged and loose fitting doors.



Details

- Miniature, low-profile design
- Stainless steel armoured cable for added security, reliability
- Wide working gap for overhead doors
- Small size less likely to be damaged by forklifts
- Tamper loop provided

DC108

Surface, overhead, floor mount contact

Technical specifications

Général

Application type	Overhead
Contact type	NC
Connectivity	4 wires, 2 m

Wired / wireless

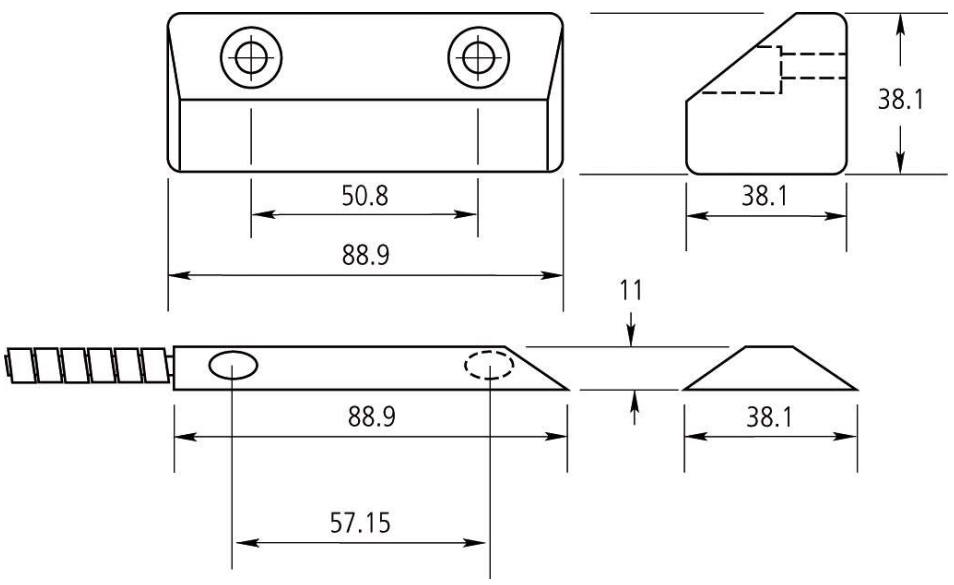
Wired-wireless	Wired
Operating gap	75 mm

Caractéristiques physiques

Dimensions magnet	89 x 38 x 38 mm
Dimensions contact / sensor	89 x 38 x 38 mm
Colour	Metallic silver
Material	Aluminium

Régulateur

EN50131 grade	Grade 2
Certification	IMQ, ULC



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 2 February 2024 - 10:54

ITEM	Tag	B400-TIR-001	: Motion Detector (B-400)			Dwg	123A90-DDL-IN-DL-40080
	S/Sys	87-20	: Process Control System (PCS) - Instrumentation			Module	LD_B-400
TASK	code	C10002339		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Instrumental	Form	CJX00 Miscellaneous

1	Check for mechanical damage.	OK
2	Check installed equipment is suitable and conforms to specification.	OK
3	Check installation conforms to P&ID and hook-up drawing.	OK
4	Check tube fittings manufacturer is the one chosen for the plant.	NA
5	Check that piping connections provide the block & bleed facility (if required).	NA
6	Check that all stop plugs are properly installed	OK
7	Check identification (tag number, tag plates).	PL
8	Check supporting and protection against vibrations.	OK
9	Check the conformity of earthing as per specification (I.P.E. or I.E.)	OK
10	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-07	2024-12-10	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:13:48.163Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-10T14:54:16.684Z	

DRAWING NO. 123A90-DDL-IN-DL-40080

REV. 02

MFA MANUAL CALL POINT	950-MFA-04201
XL BEACON (AMBER)	950-XL-04201
XL BEACON (RED)	950-XL-04202
XZ SOUNDER	950-XZ-04201
TDC DOOR CONTACT	B400-TDC-001
TDC DOOR CONTACT	B400-TDC-002
TIR MICROWAVE MOTION SENSOR	B400-TIR-001

MFA MANUAL CALL POINT	950-MFA-04202
XL BEACON (AMBER)	950-XL-04203
XL BEACON (RED)	950-XL-04204
XZ SOUNDER	950-XZ-04202
TDC DOOR CONTACT	B300-TDC-001
TDC DOOR CONTACT	B300-TDC-002
TIR MICROWAVE MOTION SENSOR	B300-TIR-001

MFA MANUAL CALL POINT	950-MFA-04203
XL BEACON (AMBER)	950-XL-04205
XL BEACON (RED)	950-XL-04206
XZ SOUNDER	950-XZ-04203
TDC DOOR CONTACT	B200-TDC-001
TDC DOOR CONTACT	B200-TDC-002
TIR MICROWAVE MOTION SENSOR	B200-TIR-001

950-JE-04101
+24.910mm
+1.600mm T.O.S

950-JE-04102
+24.910mm
+1.600mm T.O.S

950-JE-04103
+24.910mm
+1.600mm T.O.S

B-400
I&T EQUIPMENT ROOM

B-300
AC UPS

B-200
LV SWITCHROOM 400V

A-85000

BESS 01

BESS 02

WATER-TREATMENT-PACKAGE

U-64000

NITROGEN-RECEIVER

B-100
HV/MV SWITCHROOM
66kV/6.6kV

50-XV-002
50-XY-002
50-ZSH-002
50-ZSL-002
+23.628mm
+0.318mm T.O.S

50-XV-001
50-XY-001
50-ZSH-001
50-ZSL-001
+23.628mm
+0.318mm T.O.S

950-JE-05103
+24.910mm
+1.600mm T.O.S

50-PT-001
+24.765mm
+1.455mm T.O.S

950-JE-05102
+24.910mm
+1.600mm T.O.S

64-PV-031A
64-PY-031A
64-ZT-031A
64-ZSH-031A
64-ZSL-031A
+23.238mm
+0.072mm T.O.S

64-PT-031A
+23.389mm
+0.079mm T.O.S

64-PV-031B
64-PY-031B
64-ZT-031B
64-ZSH-031B
64-ZSL-031B
+23.238mm
+0.072mm T.O.S

64-PT-031B
+23.389mm
+0.079mm T.O.S

64-PT-002
+23.389mm
+0.079mm T.O.S

00-JE-11005
+24.909mm
+1.599mm T.O.S

950-JE-06101
+24.909mm
+1.599mm T.O.S

00-JE-11004
+24.909mm
+1.599mm T.O.S

950-JE-05101
+24.909mm
+1.599mm T.O.S

00-JE-12006
+24.909mm
+1.599mm T.O.S

50-PT-014
+23.303mm
+0.007mm T.O.S

50-TT-001
+23.988mm
+0.678mm T.O.S

50-TT-002
+23.373mm
+0.063mm T.O.S

50-XV-004
50-XY-004
50-ZSH-004
50-ZSL-004
+23.628mm
+0.318mm T.O.S

50-XV-005
50-XY-005
50-ZSH-005
50-ZSL-005
+23.628mm
+0.318mm T.O.S

50-XV-003
50-XY-003
50-ZSH-003
50-ZSL-003
+23.628mm
+0.318mm T.O.S

50-PT-002
+24.730mm
+1.420mm T.O.S

950-JE-06103
+24.910mmmm
+1.600mm T.O.S

950-JE-06102
+24.910mm
+1.600mm T.O.S

MFA MANUAL CALL POINT	950-MFA-06201
XL BEACON (AMBER)	950-XL-06201
XL BEACON (RED)	950-XL-06202
XZ SOUNDER	950-XZ-06201
TDC DOOR CONTACT	B100-TDC-001
TDC DOOR CONTACT	B100-TDC-002
TIR MICROWAVE MOTION SENSOR	B100-TIR-001

LOWER DECK
SCALE: 1:100

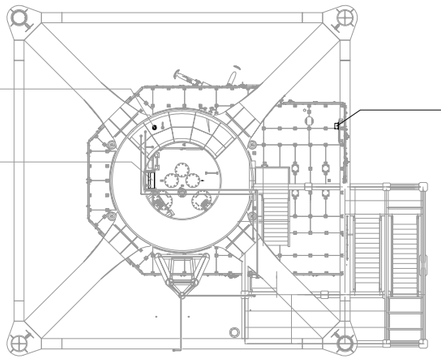
VIEW EL. 23310mm to 29310mm

02

55-LIT-001
-21.441mm
-1.869mm T.O.S

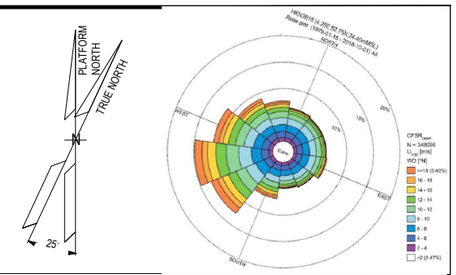
HNA6-SOLAR JB
-21.110mm
-2.200mm T.O.S

950-JE-07101
-18.507mm
-4.803mm T.O.S



TRANSITION PIECE
SCALE: 1:100

VIEW EL. 17050mm to 23310mm



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. THIS DRAWING IS VALID ONLY FOR INSTRUMENT LOCATION LAYOUT.

LEGEND

- INSTRUMENT JUNCTION BOX
- ELECTRONIC INSTRUMENT
- CONTROL / ON-OFF VALVE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-IN-DL-40081	INSTRUMENT LAYOUT - UPPER DECK
123A90-DDL-IN-LIS-40091	INSTRUMENT CABLE LIST
123A90-DDL-IN-DG-40015	INSTRUMENT-CCS WIRING DIAGRAMS
123A90-DDL-IN-DG-40016	INSTRUMENT-SAFETY SYSTEM WIRING DIAGRAMS
123A90-DDL-IN-DL-40083	INSTRUMENT MAIN CABLES ROUTING-UPPER DECK

INSERT SUBCONTRACTOR / VENDOR LOGO HERE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/08/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	22/12/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40080**

REV.:	DATE:	SIGNATURE:
2_C	06/11/24	G.Randi

ROSETTI MARINO SpA

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT LOCATION LAYOUT–LOWER DECK
TOS EL. 23.310M

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 04/10/24
A1	DRAWING NO. 123A90–DDL–IN–DL–40080	SHEET 001	REV. 02

File Name : 123A90-DDL-IN-DL-40080 REV02.dwg

DRAWING NO. 123-A90-DDL-IN-DG-40015

REV. 01

FIELD		I&T EQUIPMENT ROOM (ITER)
EQUIPMENT ROOM	CABLE NO	MARSHALLING CABINET B400-PCS-002

<01>



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_G	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
B–100÷400 – ACCESS CONTROL SIGNALS

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

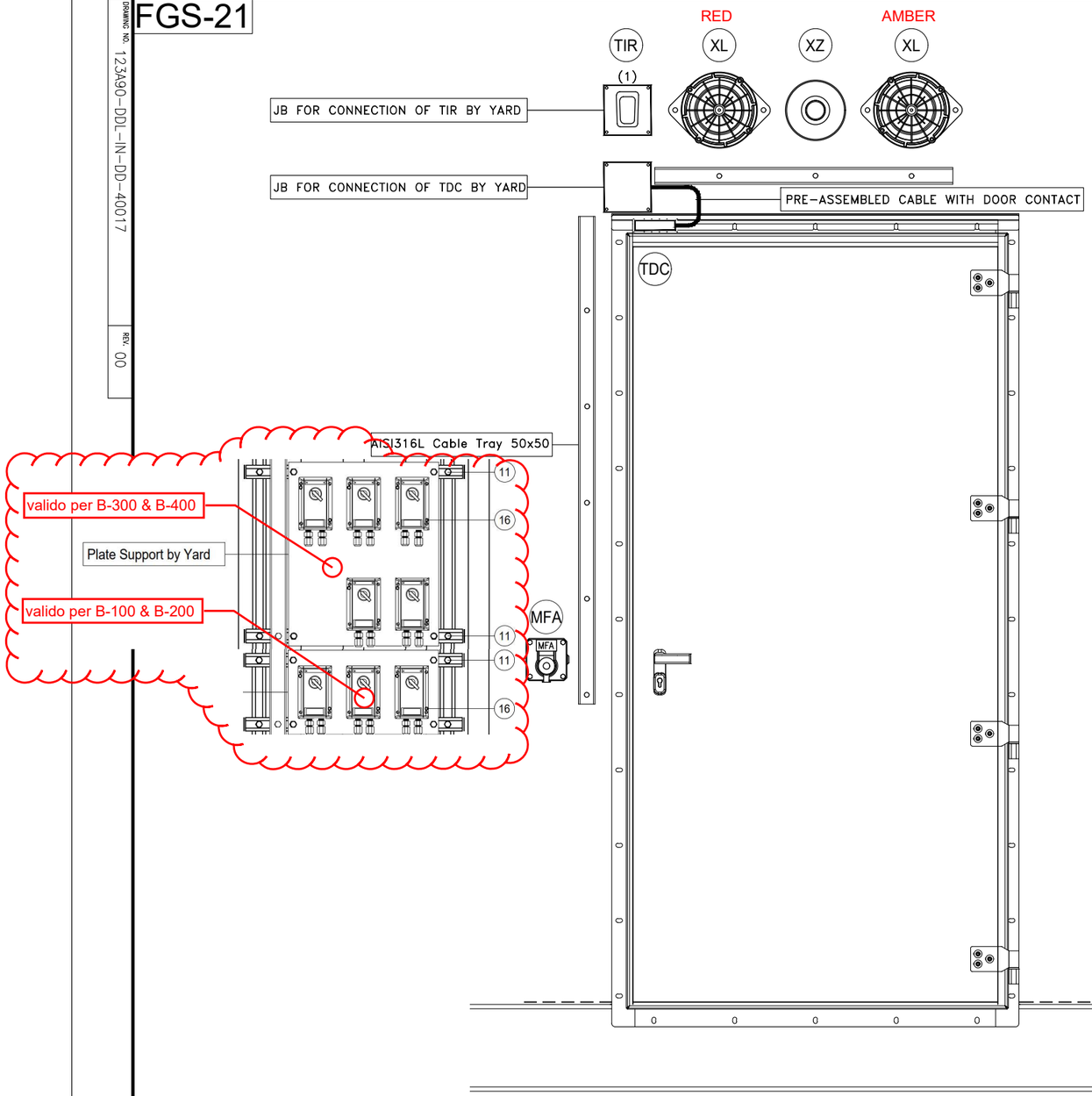
	DRAWING NO.	SHEET	REV.
A3	123A90–DDL–IN–DG–40015	024	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

FGS-21

DRAWING NO. 123A90-DDL-IN-DD-40017

REV. 00



POS.	DESCRIPTION	Q.TY
-	SELFING TAPPING SCREW	-

CONTAINER	ITEM	DESCRIPTION	TAGNAME
B-100 ~~B-101~~	MFA	MANUAL CALL POINT	950-MFA-06201
	XL	BEACON (AMBER)	950-XL-06201
	XL	BEACON (RED)	950-XL-06202
	XZ	SOUNDER	950-XZ-06201
	TDC	DOOR CONTACT	B100-TDC-001
	TDC	DOOR CONTACT	B100-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B100-TIR-001
B-200 ~~B-201~~	MFA	MANUAL CALL POINT	950-MFA-04203
	XL	BEACON (AMBER)	950-XL-04205
	XL	BEACON (RED)	950-XL-04206
	XZ	SOUNDER	950-XZ-04203
	TDC	DOOR CONTACT	B200-TDC-001
	TDC	DOOR CONTACT	B200-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B200-TIR-001
B-300 ~~B-301~~	MFA	MANUAL CALL POINT	950-MFA-04202
	XL	BEACON (AMBER)	950-XL-04203
	XL	BEACON (RED)	950-XL-04204
	XZ	SOUNDER	950-XZ-04202
	TDC	DOOR CONTACT	B300-TDC-001
	TDC	DOOR CONTACT	B300-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B300-TIR-001
B-400 ~~B-401~~	MFA	MANUAL CALL POINT	950-MFA-04201
	XL	BEACON (AMBER)	950-XL-04201
	XL	BEACON (RED)	950-XL-04202
	XZ	SOUNDER	950-XZ-04201
	TDC	DOOR CONTACT	B400-TDC-001
	TDC	DOOR CONTACT	B400-TDC-002
	TIR	MICROWAVE MOTION SENSOR	B400-TIR-001

NOTES

(1) Motion Sensor to be mounted on cover of JB

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	02/09/2024	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	11/07/2024	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DD-40017**

REV.:	DATE:	SIGNATURE:
1_H	06/12/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

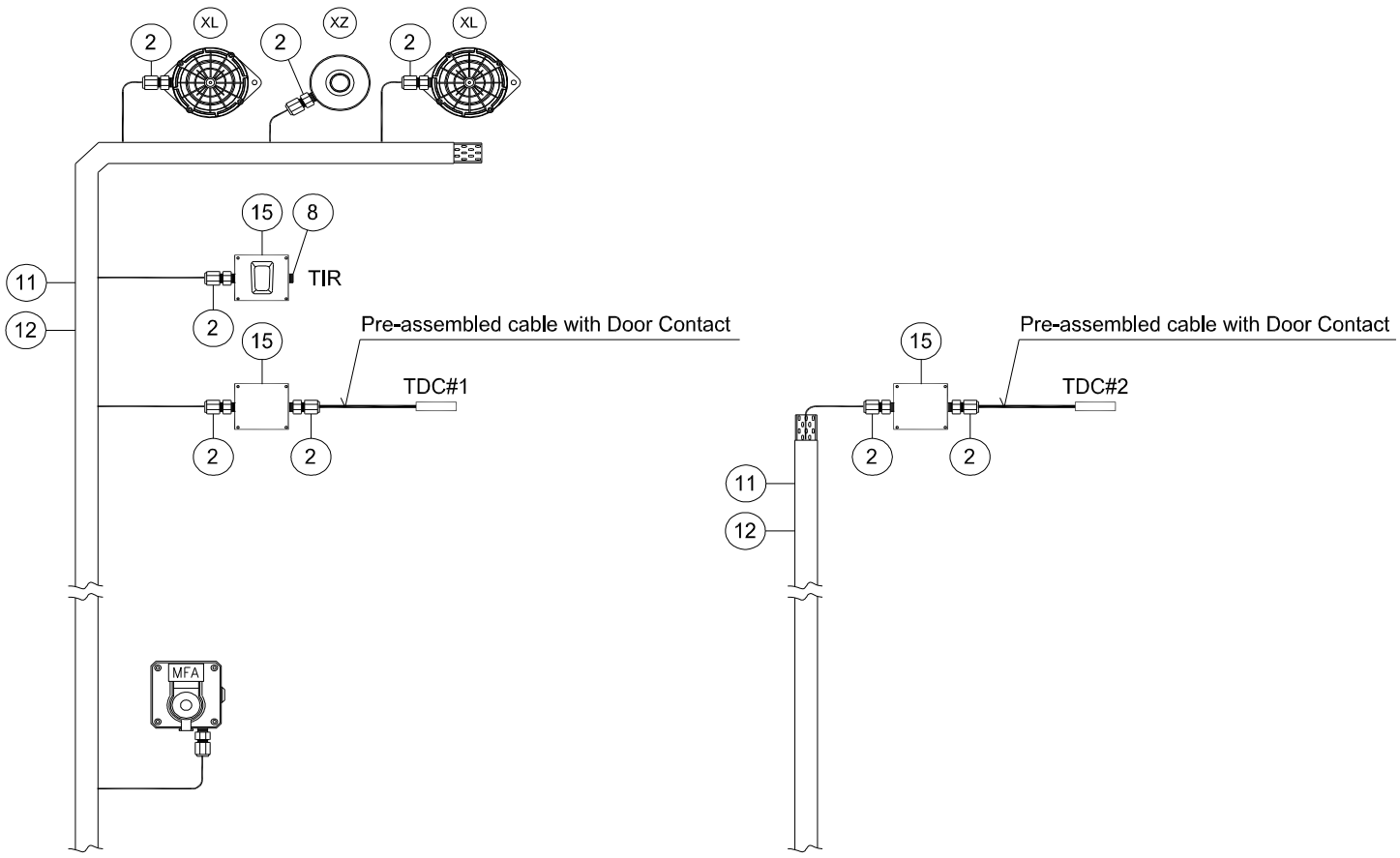
TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT INSTALLATION DETAILS
FIRE & GAS DEVICES INSIDE CONTAINERS

CONTRACT NO./TITLE			SCALE /
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 11/07/2024

A3	DRAWING NO. 123A90-DDL-IN-DD-40017	SHEET 041	REV. 01

ELECTRICAL HOOK-UP FOR ACCESS CONTROL SYSTEM DEVICES



INSTRUMENT TAG	
1	950-MFA-06201
	950-XL-06201
	950-XL-06202
	950-XZ-06201
	B100-TDC-001
	B100-TDC-002
	B100-TIR-001
2	950-MFA-04203
	950-XL-04205
	950-XL-04206
	950-XZ-04203
	B200-TDC-001
	B200-TDC-002
	B200-TIR-001
3	950-MFA-04202
	950-XL-04203
	950-XL-04204
	950-XZ-04202
	B300-TDC-001
	B300-TDC-002
	B300-TIR-001
4	950-MFA-04201
	950-XL-04201
	950-XL-04202
	950-XZ-04201
	B400-TDC-001
	B400-TDC-002
	B400-TIR-001

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-HD-40079**

REV.:	DATE:	SIGNATURE:
2_E	03/12/24	G.Randi

ROSETTI MARINO SpA

POS.	NORM/STD CODE	DESCRIPTION	SIZE/ CONNECTION TYPE	Q.TY
15		Junction Box, Ex-e 150W x 150H x 100D complete with N. 4 terminal blocks 2,5mmq and N. 2 cable entry ø=20,5mm	150 W x 150 H x 100 D	3
12		Cover for cable tray, FRP, Grey Color	50 W x 10 H x 5 THK	9 mt
11		Perforated cable tray, FRP, Grey Color	50 W x 50 H x 5 THK	9 mt
8		Nickel Plated Brass, Cable Plug Ex-d/e IIC (or IIB + H2) T1	M20	1
2		Nickel Plated Brass Double Compression Cable Gland Ex-d/e IIC (or IIB + H2) T1	M20	9

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6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Dual Technology outdoor motion sensor

The Mini Dual variants are outdoor motion sensors and alarm triggers that use two independent passive infrared detectors plus a microwave sensor module. All three sensors must trigger to cause the detector to signal an alarm. They use triple detection technology to deliver precise, reliable presence detection.

Easy and quick to install

Programmable options include a variable pulse count and LED able/disable functionality. Moreover, the integral dual-axis tilt sensor allows 90º of pan and 45º of tilt, which increases the speed of the outdoor installation and provides incredibly accurate aiming of the detection pattern.

Aesthetics and hidden sensor module

The design has a neat appearance that gives no visible indication of the orientation of the detector head and totally hides the wiring. It blends smoothly into residential outdoor applications.



Details

- New outdoor family containing wired PIR, 2 Dual Technology variants and wireless PIR
- Attractive aesthetics
- 14 to 70º detection angle
- 90º pan & 45º tilt for flexible installation
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 5 years warranty

6931P

Mini outdoor motion sensor, Dual Technology, 24 GHz

Technical specifications

General

Technology	Dual
Application type	Wall mount
Anti masking	No
Pet immune	No
Camera	No
Processor	Digital microprocessor with nonvolatile memory

Detection

Max. detection range	15 m
Detection range	14 to 70° detection angle, 15 x 13 m
No. of curtains	21
Microwave frequency (nom.)	24 GHz
Undercrawl protection	No
Fresnel lens	20 zones for each detection element, which can be masked with the curtain sliders
Microwave module	X-band radar 24 GHz
Adjustment	90° pan, 45° tilt
Customized optics	Double silicon shielded quad element eliminates 50,000 lux of white light
Pulse count	1 or 2

Wired / wireless

Wired-wireless	Wired

Inputs / outputs

Alarm relay characteristic	NC, volt free relay, signal contact 24 VAC/DC @ 50 mA with an integral 25 Ohm series resistor

Electrical

Power supply value	10 to 15 VDC
Current consumption	8 mA (12 V nominal)

Physical

Physical dimensions	71 x 120 x 75 mm (W x H x D)
Net weight	225 g
Shipping weight	325 g
Colour	Bronze
Material	High impact ABS plastic with HDPE cover, UV stabilized
Mounting height	3 to 6 m
Mounting height	Variable up to 6 m / Optimum height 3 m for full range

Environmental

Operating temperature	-30 to +65°C
Environment	Outdoor
IP rating	IP65
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment

Inputs / outputs

Outputs	Silent, solid state, magnetically immune. PIR AND Microwave

LED

	Orange : Microwave activated
	Red : PIR activated
	Orange & Red : Detector alarm

As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 27 September 2023 - 15:01

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

NOT APPLICABLE

Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

NOT APPLICABLE

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE