Base Load Power Hub (BLPH)

A-50000 ATEX REGISTER

Document Number:1724000448-MAC-LIS-00031

Document Class: 2

02	03/03/2025	ACCEPTED FOR CONSTRUCTION (AFC)	MS	WR	RM
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Rev.	Date	Description	Prepared	Reviewed	Approved

PSC DOC. REF.: PK2885-Q-011

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1	Cover	X	X	X					
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3	Revision / Change Log	X	X	X					
4	ATEX Register	X	X	X					

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ISSUE FOR REVIEW (IFR)
02	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

No.	Description
1.	
2.	
3.	
4.	

No.	Revision	Tag Number	Description	Location	Manufacturer	Model Type Catalogue Number	Serial Number	ATEX Certification Marking	Reference Document	ATEX Certificate Number	Installation Zone	Notes / Comments	P.O.	Vendor	Skid / Package	Barrier Calculation Ref.	Non-Electrical Equipment	Special Conditions of safe use Applicable
1	01	50-AT-021A	Intrinsically Safe Smoke Detector	Inside container A-50000	Hochiki	SOC-E-IS + YBN-R/4(IS)	4014000100	II 1 G Ex-ia IIC T5 Ga	1724000448-IN-DG-00014	Baseefa19ATEX0143X EC	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	YES
2	01	50-AT-021B	Intrinsically Safe Smoke Detector	Inside container A-50000	Hochiki	SOC-E-IS + YBN-R/4(IS)	4014000097	II 1 G Ex-ia IIC T5 Ga	1724000448-IN-DG-00014	Baseefa19ATEX0143X EC	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	YES
3	01	50-AT-021C	Intrinsically Safe Smoke Detector	Inside container A-50000	Hochiki	SOC-E-IS + YBN-R/4(IS)	4041000098	II 1 G Ex-ia IIC T5 Ga	1724000448-IN-DG-00014	Baseefa19ATEX0143X EC	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	YES
4	01	50-HS-001	Manual alarm Call Point	Inside container A-50000	E2S	BExCP3CBGSSNAP2A1RN24E4K7RS820R	1CP3CBG000753	II 2 GD Ex db eb mb IIC T4 Gb Ta = (-40°C to +65°C) Ex tb IIIC T75oC Db Ta = (-40°C to +65°C)	1724000448-IN-DG-00014	Sira 09ATEX3286X	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	YES
5	01	50-AT-020A	Hydrogen Gas Detector	Inside container A-50000	Sensitron	SMART3GC2 S2097H2	D89251	II 2 G Ex db IIC T5 Gb	1724000448-IN-DG-00014	CESI 02 ATEX 084X	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	NO
6	01	50-AT-020B	Hydrogen Gas Detector	Inside container A-50000	Sensitron	SMART3GC2 S2097H2	D89257	II 2 G Ex db IIC T5 Gb	1724000448-IN-DG-00014	CESI 02 ATEX 084X	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	NO
7	01	50-AT-020C	Hydrogen Gas Detector	Inside container A-50000	Sensitron	SMART3GC2 S2097H2	D89252	II 2 G Ex db IIC T5 Gb	1724000448-IN-DG-00014	CESI 02 ATEX 084X	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	NO
8	01	950-JE-05104	Combination Unit (Sounder/Beacons)	Inside container A-50000	E2S	D1xC3J21A1RS1FDC024GN1AWR	01DC3200482	II 2G Ex db IIC T3/T4/T5 Gb Ta -55°C to +75°C (AC: +65°C) II 2D Ex tb IIIC T169°C Db Ta -55°C to +75°C (AC: T141°C +60°C)	1724000448-IN-DG-00014	DEMKO 19 ATEX 2141X DEMKO 19 ATEX 2009X	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	YES
9	01	950-MFA-05201	Manual Fire Alarm	Inside container A-50000	E2S	STExCP8PTSPLAS2A1RN	1CP8PTS001178	II 2G Ex db IIC T6 Gb Ta -55°C to +70°C	1724000448-IN-DG-00014	DEMKO 15 ATEX 1589X	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A (SIA)	A-50000	N.A.	NO	YES
10	01	JB-500E8	Junction box	Outside container A-50000	STAHL	8146/1083	2421159980440001	II 2 G Ex eb IIC T6 Gb II 2 D Ex tb IIIC T80°C Db	1724000448-IN-DG-00014	PTB 01 ATEX 1016	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A. (STAHL)	A-50000	N.A.	NO	NO
11	01	JB-500F8	Junction box	Outside container A-50000	STAHL	8146/1051	2421217190440001	II 2 G Ex eb IIC T6 Gb II 2 D Ex tb IIIC T80°C Db	1724000448-IN-DG-00014	PTB 01 ATEX 1016	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A. (STAHL)	A-50000	N.A.	NO	NO
12	01	50-HS-020	Emergency push button	Outside container A-50000	STAHL	8040	1180X-10L07SA05	II 2 G Ex db eb IIC T6 Gb II 2 D Ex tb IIIC T80°C Db	1724000448-IN-DG-00014	PTB 01 ATEX 1105	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A. (STAHL)	A-50000	N.A.	NO	NO
13	01	NL-001	Emergency lamp	Inside container A-50000	STAHL	6409/4128	4128-5203-162-1110-11-850011	II 3 G Ex db ec IIC T4 Gc II 3 D Ex tc IIIC T100°C Dc II 2 D Ex tb op is IIIC T100°C Db	1724000448-IN-DG-00014	IBExU 16 ATEX 1233	Safe Area	N.A.	1724000448 123A90A	PSC S.p.A. (STAHL)	A-50000	N.A.	NO	NO

EU DECLARATION OF CONFORMITY

Issued in accordance with ATEX Directive 2014/34/EU at sole responsibility of the manufacturer



Declartion Number :	Baseefa19ATEX0143X EC
Product(s) :	SOC-E-IS & SOC-E-IS(WHT)
Manufacturer :	Hochiki Europe(UK) Limited Grosvenor Road Gillingham Business Park Gillingham Kent ME8 0SA
Description :	Conventional intrinsically safe photoelectric smoke detector for fire detection
Intended Use :	For use in fire detection and alarm systems for buildings.
Conditions or Limitations of Use :	Used with the YBN-R/4IS & YBN-R/4IS(WHT) mounting base

This declaration is issued under the sole responsibility of the manufacturer and we hereby declare that the product identified above meets the requirements of the following:

Standards

EN 60079-0:2018	Electrical apparatus for potentially explosive atmospheres. General requirements.
EN 60079-11:2012	Electrical apparatus for potentially explosive atmospheres – Intrinsic safety ‘i’
EN 80079-34:2018	Application of quality management systems for Ex Product manufacture

Directives

ATEX Directive	2014/34/EU

EC Type Examination

Assessed By :	SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland. **Notified Body Number 0598** has performed type testing of the product, initial inspection of the manufacturing plant and of factory production control with continuous surveillance, assessment and evaluation of factory production control and issued following certificate of conformity: **Baseefa19ATEX0143X EC**
Certificate Number :	Baseefa19ATEX0143X EC
Relevent Provisions	Intrinsic Safety to classification Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +55°C)
Authorised representative:	Mirco Damoli, Hochiki Italia Srl a s.u.

Please see additional conformity information on page 2.

For further information visit www.hochikieurope.com/esp

Hochiki Europe (UK) Ltd. Reserves the right to alter the specification of its products from time to time without notice. Although every effort has been made to ensure the accuracy of the information contained in this document it is not warranted or represented by Hochiki Europe (UK) Ltd. To be a complete and up-to-date description.

Additional Performance Details

- Compatible with YBN-R/4IS & YBN-R/4IS(WHT) mounting devices.
- Supported by a range of barriers

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

Signed for and on behalf Hochiki Europe (UK) Limited:

Mirco Damoli
EU Authorised Representative
Hochiki Italia Srl a s.u
Verona, Italy
9th June 2021

Shane Bartlett
Compliance Manager
Hochiki Europe (UK) Ltd
Gillingham, UK
9th June 2021

Issued at Hochiki Europe (UK) Limited

Ex CE	The performance of the above mentioned products are in conformity with the performance and essential characteristics declared within this certificate. This declaration of performance is issued under the sole responsibility of Hochiki Europe (UK) Ltd. This certificate will remain valid as long as the test methods and/or factory production control requirements included in harmonized standard, used to assess performance of the declared characteristics, do not change, and the product, and the manufacturing conditions are not modified significantly.

THIS DOCUMENT IS TO BE RETAINED FOR LEGAL PURPOSES

This certificate will remain valid as long as the test methods and/or factory production control requirements included in harmonized standard, used to assess performance of the declared characteristics, do not change, and the product, and the manufacturing conditions are not modified significantly.

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1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **Baseefa19ATEX0143X**

4 Product: **SOC-E-IS Conventional Optical Smoke Detector**

5 Manufacturer: **Hochiki Europe**

6 Address: **Grosvenor Road, Gillingham Business Park, Gillingham, Kent, ME8 0SA**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR19.0330/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-11:2012**

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

Ⓔx II 1G Ex ia IIC T5 Ga (-20°C ≤ Ta ≤ +55°C)

SGS Baseefa Customer Reference No. **3642** Project File No. **19/0288**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and the Supplementary Terms and Conditions accessible at http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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Registered in England No. 4305578.
Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

D BREARLEY
Certification Manager

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa19ATEX0143X**

15 Description of Product

The SOC-E-IS Conventional Optical Smoke Detector is designed to detect combustion products in the air within a hazardous area and provides an alarm indication on a locally mounted LED and to equipment located in the non-hazardous area via a suitable interface.

The SOC-E-IS comprises various components, including LEDs and a photodetector, mounted on a printed circuit board (PCB) which is encapsulated and housed within a plastic enclosure. A perforated metal sheet permits access for the combustion products to the photodetector. The smoke detector sub-assembly is mounted on a Base Unit Type YBN-R/4(IS) which incorporates the field terminals. Cable entry to the field terminals is from the base of the enclosure.

This certificate covers the following variants:

SOC-E-IS, all variants

SOC-E-IS (WHT), all variants

Input/output parameters

Both variants

U_i	=	30V	C_i	=	0
I_i	=	100mA	L_i	=	0
P_i	=	750mW			

16 Report Number

GB/BAS/ExTR19.0330/00

17 Specific Conditions of Use

1. The plastic enclosure may present a potential electrostatic ignition hazard; the equipment must not be rubbed or cleaned with a dry cloth or solvents or installed within a dust laden airflow.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
1212330-00	1 – 6	1	05/19	SOC-E-IS GA Drawing
1212330-00	1 & 2	1	15/01/2020	SOC-E-IS GA Parts List
1212330-20	1 & 2	1	15/01/2020	SOC-E-IS(WHT) GA Parts List

Number	Sheet	Issue	Date	Description
2-1-2-320	1 & 2	1	04/19	SOC-E-IS PCB Assembly Drawing
2-1-2-320	1 – 3	1	02/10/2019	SOC-E-IS PCB Parts List
2-2-9-187	1 – 3	1	04/19	SOC-E-IS Drill Drawing
2-3-0-2805	1 & 2	1	12/19	SOC-E-IS Outer Cover Marking
2-3-0-2806	1 of 1	1	11/19	SOC-E-IS Product Label
2-3-0-2807	1 of 1	1	11/19	SOC-E-IS(WHT) Product label
2-3-2-434	1 – 4	1	05/19	SOC-E-IS Outer Cover
2-3-2-435	1 – 4	1	05/19	SOC-E-IS(WHT) Outer Cover

All drawings are common to, and with, IECEx BAS 19.0122X

EC DECLARATION OF PERFORMANCE

Issued in accordance with the Construction Products Regulation EU N° 305/2011



This is to certify that in compliance the Council Directive 305/2011 Construction Products Regulation, this declaration applies to :

Declartion Number :	2831-CPR-F4344
Product(s) :	SOC-E-IS & SOC-E-IS(WHT)
Manufacturer :	Hochiki Europe(UK) Limited Grosvenor Road Gillingham Business Park Gillingham Kent ME8 0SA
Description :	Conventional intrinsically safe photoelectric smoke detector for fire detection
Intended Use :	For use in fire detection and alarm systems for buildings.

This declaration is issued under the sole responsibility of the manufacturer and we hereby declare that the product identified above meets the requirements of the following:

Standards

EN54-7:2018	Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization.
for the intended uses indicated above have been determined (1) See Annex A for the Essential Characteristics details (2) See Annex B for additional performance details	

Directives

Construction Products Regulation	EU 305/2011
Please refer to seperate Declartion of Conformity in respect of EU 768/2008/EC Annex III (DofC) Please refer to seperate Declartion of Conformity in respect of EU Regulation 2014/34/EU (ATEX) Please refer to seperate Declartion of Conformity in respect of EU Regulation 2014/90/EU (MED)	

EC Type Examination

Assessed by :	BRE Global Limited (Notified Body 2831) has performed type testing of the product, initial inspection of the manufacturing plant and of factory production control with continuous surveillance, assessment and evaluation of factory production control under system 1 and issued following certificate of conformity : **2831-CPR-F4344**
System of Assessment	System 1
Authorised representative:	Mirco Damoli, Managing Director, Hochiki Italia Srl a s.u

Please see additional conformity information on page 2.

For further information visit https://store.hochikieurope.com/

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Annex A – Essential Characteristics

Essential Characteristics	EN 54-7:2018 (Clause)	Performance
Operational reliability	4.2.1 to 4.2.8	Pass
Nominal activation conditions/Sensitivity.	4.3.1 to 4.3.3	Pass
Reproducibility	N/A	Pass
Additional test for suffix S point heat detectors	N/A	Pass
Additional test for suffix R heat detectors	N/A	Pass
Tolerance to supply voltage (variation in supply)	4.5	Pass
Air Movement	4.4.1	Pass
Dazzling	4.4.2	Pass
Repeatability	N/A	Pass
Rapid changes in attenuation	N/A	Pass
Performnace parameters under fire conditions		
Fire sensitivity	4.6	Pass
Durability of Nominal activation		
Cold (operational)	4.7.1.1	Pass
Dry Heat (endurance)	N/A	Pass
Dry Heat (operational)	4.7.1.2	Pass
Damp heat, cyclic (operational)	N/A	Pass
Damp heat, cyclic (endurance)	N/A	Pass
Damp heat, steady state (operational)	4.7.2.1	Pass
Damp heat, steady state (endurance)	4.7.2.2	Pass
Enclosure protection	N/A	Pass
Corrosion resistance		
Sulphur dioxide (SO2) corrosion (endurance)	4.7.3	Pass
Vibration Resistance		
Shock (operational)	4.7.4.1	Pass
Impact (operational)	4.7.4.2	Pass
Vibration, sinusoidal (operational)	4.7.4.3	Pass
Vibration, sinusoidal (endurance)	4.7.4.4	Pass
Vibration (endurance)	N/A	Pass
Electrical stability		
EMC, immunity (operational)	4.7.5	Pass
Variat8:36ion in supply	N/A	Pass

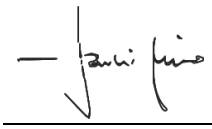
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Annex B – Additional Performance Details

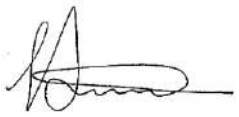
- Compatible with YBN-R/4IS & YBN-R/4IS(WHT) mounting devices.
- Supported by a range of IS barriers

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

Signed for and on behalf Hochiki Europe (UK) Limited:



Mirco Damoli
EU Authorised Representative
Hochiki Italia Srl a s.u
Verona, Italy
1st June 2023



Shane Bartlett
Compliance Manager
Hochiki Europe (UK) Ltd
Gillingham, UK
1st June 2023

Issued at Hochiki Europe (UK) Limited

CE	The performance of the above mentioned products are in conformity with the performance and essential characteristics declared within this certificate. This declaration of conformity is issued under the sole responsibility of Hochiki Europe (UK) Ltd. This certificate will remain valid as long as the test methods and/or factory production control requirements included in harmonized standard, used to assess performance of the declared characteristics, do not change, and the product, and the manufacturing conditions are not modified significantly.

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EU Declaration of Conformity

Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Authorised Representative:	E2S Warnsignaltechnik UG Charlottenstrasse 45-51 72764 Reutlingen Germany
Equipment Type:	BExCP3A-BG, BExCP3A-PB, BExCP3A-PT, BExCP3B-BG, BExCP3B-PB, BExCP3B-PT, BExCP3C-BG, BExCP3C-PB, BExCP3C-PT, BExCP3D-BG, BExCP3D-PB, BExCP3D-PT, BExCP3E-BG, BExCP3E-PB, BExCP3E-PT

Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX)

Notified Body for EU type Examination (Module B):		Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands
EU-type Examination Certificate (Module B):		SIRA 09ATEX3286X
Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):		Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands
Quality Assurance Notification (Module D):		SIRA 05 ATEX M342
Provisions fulfilled by the equipment:	BExCP3A:	II 2G Ex db eb IIC T6 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +70°C) or
	BExCP3B:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +50°C) II 2D Ex tb IIIC T60°C Db (-40°C ≤ Ta ≤ +50°C) or
	BExCP3C:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C) or
	BExCP3D:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +70°C) II 2D Ex tb IIIC T80°C Db (-40°C ≤ Ta ≤ +70°C) or
	BExCP3E:	II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +65°C) II 2D Ex tb IIIC T75°C Db (-40°C ≤ Ta ≤ +65°C)
Standards applied:		EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015/A1:2108 IEC 60079-18:2015/AC:2018 EN 60079-31: 2014 IP6X Dust Protection to EN60079-0 / EN 60079-31

Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied:	EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 / A1:2011 / AC: 2012 EN 61000-6-4:2007 / A1:2011

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

EU Declaration of Conformity

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1992+A2:2013 - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66
Construction and design requirements according to EN54-11:2001 clause 4.7 – BExCP3A-BG / B-BG / C-BG / D-BG only (fitted with burning house symbol shown in figure 3a and no lift flap)

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.

Martin Streetz
Quality Assurance Manager

Document No.: DC-007_Issue_N
Date and Place of Issue: London, 23/12/2020

1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 09ATEX3286X** Issue: **7**

4 Equipment: **BExCP3A, BExCP3B, BExCP3C, BExCP3D, BExCP3E, GNExCP6A, GNExCP6B GNExCP6C, GNExCP6D and GNExCP6E Manual Call Points**

5 Applicant: **European Safety Systems Limited**

6 Address: Impress House, Mansell Road, Acton, London W3 7QH, UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015/A1:2018
EN 60079-18:2015/AC:2018 EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

II 2GD

BExCP3A Call Points:	Ex db eb IIC T6 Gb Ta = (-40°C +70°C) Ex tb IIIC T75°C Db Ta = (-40°C +70°C)
BExCP3B Call Points:	Ex db eb mb IIC T4 Gb Ta = (-40°C +50°C) Ex tb IIIC T60°C Db Ta = (-40°C +50°C)
BExCP3C Call Points:	Ex db eb mb IIC T4 Gb Ta = (-40°C to +65°C) Ex tb IIIC T75ºC Db Ta = (-40°C to +65°C)
BExCP3D Call Points:	Ex db eb mb IIC T4 Gb Ta = (-40ºC to +70ºC) Ex tb IIIC T80ºC Db Ta = (-40ºC to +70ºC)
BExCP3E Call Points	Ex db eb mb IIC T4 Gb Ta = (-40°C to +65°C) Ex tb IIIC T75ºC Db Ta = (-40°C to +65°C)
GNExCP6A Call Points:	Ex db eb IIC T6 Gb Ta = (-40°C +70°C) Ex tb IIIC T75°C Db Ta = (-40°C +70°C)
GNExCP6B Call Points:	Ex db eb mb IIC T4 Gb Ta = (-40°C +50°C) Ex tb IIIC T80°C Db Ta = (-40°C +50°C)
GNExCP6C Call Points:	Ex db eb mb IIC T4 Gb Ta = (-40°C to +65°C) Ex tb IIIC T75ºC Db Ta = (-40°C to +65°C)
GNExCP6D Call Points:	Ex db eb mb IIC T4 Gb Ta = (-40ºC to +70ºC) Ex tb IIIC T80ºC Db Ta = (-40ºC to +70ºC)

Project Number 80035511

Signed: J A May

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 09ATEX3286X**
Issue 7

GNExCP6E Call Points	Ex db eb mb IIC T4 Gb Ta = (-40°C to +65°C) Ex tb IIIC T75ºC Db Ta = (-40°C to +65°C)

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SCHEDULE

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Issue 7

13 **DESCRIPTION OF EQUIPMENT**

The equipment is a range of manual call points, as described below:

In all cases, external connections are made via 'Ex e' terminals mounted within the enclosure, the cables entering the enclosure via certified cable glands.

Model	Description of Enclosure	Mode of Operation	Contents Includes
BExCP3A-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch
BExCP3A-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
BExCP3A-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
BExCP3B-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch And up to two of the following: Resistor Module (2W) Diode Module Zener Diode Module
BExCP3B-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
BExCP3B-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
BExCP3C-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch And up to two of the following: Resistor Module (1.5W) Diode Module Zener Diode Module
BExCP3C-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
BExCP3C-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
BExCP3D-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch And up to two of the following: Resistor Module (1.0W)

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Model	Description of Enclosure	Mode of Operation	Contents Includes
BExCP3D-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	Diode Module Zener Diode Module
BExCP3D-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
BExCP3E-BG	Aluminium enclosure fitted with a glass window	Break glass	'Ex d' switch And up to two of the following: Resistor Module (1.75W) Diode Module Zener Diode Module
BExCP3E-PB	Aluminium enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
BExCP3E-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNExCP6A-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two
GNExCP6A-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNExCP6A-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNExCP6B-BG	Plastic enclosure fitted with a glass window	Break glass	''Ex d' switch (S) – up to two And up to two of the following: Resistor Module (2.0W) Diode Module Zener Diode Module With/without one: LED Indicator Assembly
GNExCP6B-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	

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SCHEDULE

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Issue 7

Model	Description of Enclosure	Mode of Operation	Contents Includes
GNExCP6B-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNExCP6C-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two And up to two of the following: Resistor Module (1.5W) Diode Module Zener Diode Module With/without one: LED Indicator Assembly
GNExCP6C-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNExCP6C-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNExCP6D-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two And up to two of the following: Resistor Module (1.0W) Diode Module Zener Diode Module
GNExCP6D-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNExCP6D-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	
GNExCP6E-BG	Plastic enclosure fitted with a glass window	Break glass	'Ex d' switch (S) – up to two And up to two of the following: Resistor Module (1.75W) Diode Module Zener Diode Module
GNExCP6E-PB	Plastic enclosure fitted with a push button	Push button fitted with a spring-loaded cover that must be lifted before operating	
GNExCP6E-PT		Push button fitted with a spring-loaded cover that must be lifted before operating, the push button can only be reset by a tool	

In all cases, external connections are made via 'Ex e' terminals mounted within the enclosure, the cables entering the enclosure via certified cable glands.

The following ratings are applicable:

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SCHEDULE

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BExCP3A Range of Call Points	BExCP3B, BExCP3C, BExCP3E and BExCP3D Range of Call Points
AC Voltage 250V Max Current 5A Max	Voltage #V DC Max Current #A Max
DC Voltage **125V Max Current 0.5A Max resistive load: 0.03A inductive load** **250 Vdc, 0.25A Max resistive load: 0.03A inductive load** 75V Max Current 0.75A 50V Max Current 1.0A 30V Max Current **5.0A** Max resistive load: 3.0A Inductive load 12V Max Current 5.0A	(# Due to the large number of options, it is not practical to detail a full list of available values, therefore, the manufacturer marks the actual figures applicable to each specific device on the product label in accordance with their drawings)
GNExCP6A Range of Call Points	GNExCP6B, GNExCP6C, GNExCP6D and GNExCP6E Range of Call Points
AC Voltage 250V Max Current 5A Max	Voltage #V DC Max Current #A Max
DC Voltage **125V Max Current 0.5A Max resistive load: 0.03A inductive load** **250 Vdc, 0.25A Max resistive load: 0.03A inductive load** 75V Max Current 0.75A 50V Max Current 1.0A 30V Max Current **5.0A** Max resistive load: 3.0A Inductive load 12V Max Current 5.0A	(# Due to the large number of options, it is not practical to detail a full list of available values, therefore, the manufacturer marks the actual figures applicable to each specific device on the product label in accordance with their drawings)

Variation 1 - This variation introduced the following changes:

i. The option to use of an alternative type of terminal in the BExCP3A-BG, BExCP3A-PB, BExCP3A-PT, BExCP3B-BG, BExCP3B-PB and BExCP3B-PT Manual Call points.
ii. The introduction of type GNExCP6A-BG, GNExCP6A-PB, GNExCP6A-PT, GNExCP6B-BG, GNExCP6B-PB and GNExCP6B-PT Manual Call Points; these utilise a plastic enclosure and house an extended range of optional modules. The description was amended accordingly.

In all cases, external connections are made via 'Ex e' terminals mounted within the enclosure, the cables entering the enclosure via certified cable glands.

Variation 2 - This variation introduced the following change:

i. To allow the use of diode and Zener diode packs (as used in the GNExCP6 Call Point to this certificate) with the BExCP3B Call Point; and revisions to the relevant controlled drawings to support this. The description was amended accordingly.

Variation 3 - This variation introduced the following changes:

i. The introduction of the BExCP3C-BG, BExCP3C-PB, BExCP3C-PT, GNExCP6C-BG, GNExCP6C-PB & GNExCP6C-PT Manual Call Points. The description, Specific Conditions of Use and Conditions of Manufacture were amended accordingly.

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ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 61241-1:2004 was replaced by EN 60079-31:2014. The marking has been updated in accordance with the latest standard.

Variation 4 - This variation introduced the following changes:

i. Microswitch (applicable to all variants)
- Update the equipment to permit the microswitch electrical ratings, permitted in the microswitch certificate, which introduces a 3A (maximum) inductive load in the switch.
- Update the microswitch service temperature range to -50ºC to +80ºC, from -50ºC to 65ºC, as per the latest microswitch certificate.

ii. For GNExCP6B, separate the LED indicator assembly from modules
- Permit the use up to 2x2W modules with LED or LED on its own. This has already been justified and included in the assessments, but now included as part of this variation

iii. Weidmüller DIN rail option
- Add Weidmüller DIN rail option to GNExCP6 variants.

iv. All variant
- Permit a change in ambient temperature range for all variants, using previous and new testing performed; The following changes are made with regards to call point variant.
- <u>Modified Version:</u>
  BExCP3C and GNExCP6C previously contained/now contains the following options:
  Was:
  Ex d microswitch with up to two resistor modules (1W each) OR LED indicator assembly (1W)
  Now:
  'Ex d' microswitch and up to two of the following:
  Resistor Module (1.75W each)
  Diode Module
  Zener Diode Module
- <u>New variant Resistor Power Ratings</u>
  BExCP3D and GNExCP6D has been added to include
  'Ex d' microswitch and up to two of the following:
  Resistor Module (1.0W each)
  Diode Module
  Zener Diode Module

v. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007 Ed 5, EN 60079-1:2004, EN 60079-7:2007 and IEC 60079-18:2009 Ed 3 were replaced by EN 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015/A1:2018 and EN 60079-18:2015/AC:2018, the markings were updated accordingly to recognise the new standards.

Variation 5 - This variation introduced the following changes:

i. Clarification of the product coding and marking:
   a. Types of protection placed in alphabetical order in the labels;
   b. Correction of amperage associated with 30Vdc rating for the BExCP3A and GNExCP6A Call Points in the certificates from the previous variation

ii. Permit the following modifications after performing temperature measurement tests (where necessary) as part of this variation:

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a. Recognise the existing BExCP3C and GNExCP6C call points variants with new BExCP3E and GNExCP6E variants, with the contents remaining unchanged;
b. Recognise a new variant, as the new BExCP3C and GNExCP6C call point, the same contents of the previous BExCP3C/GNExCP6C variant, with the exception of introducing a LED to the contents (GNExCP6C only) and limiting the resistor modules and the LED/resistor to 1.5W;
c. Modification to the permitted maximum input voltage and corresponding resistance values for applicable variants;
d. Permit the use of a 125VDC and 250VDC maximum voltage options for the micro-switch in the BExCP3A and GNExCP6A variants;
e. Correction of a typographical error, to represent the optional resistor/diode as R2/D2, instead of R1/D1, which is already used in the circuit diagram;
f. Permit modification of the LED resistances and the corresponding maximum input voltages for the GNExCP6B and GNExCP6C variants.
g. The description was modified to reflect these changes.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	9 December 2009	R18381A	The release of the prime certificate.
1	19 December 2011	R25199A/00	The introduction of Variation 1.
2	17 February 2012	R25199A/01	Report no. R25199A/01 replaced R25199A/00.
3	17 June 2016	R70064462A	This Issue covers the following changes: • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. *(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)* • The introduction of Variation 2.
4	17 November 2017	R70130211A	The introduction of Variation 3.
5	15 October 2019	0686	Transfer of certificate Sira 09ATEX3286X from Sira Certification Service to CSA Group Netherlands B.V.
6	07 January 2020	R70213896A	The introduction of Variation 4.
7	14 August 2020	R80035511A	The introduction of Variation 5.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 The terminals shall be fitted only with wires that have cross-sectional area falling within the following limitations:

BExCP3A and GNExCP6A Call Points fitted with Weidmüller terminal; 0.5 mm^2 to 4 mm^2
BExCP3A and GNExCP6A Call Points fitted with Phoenix terminal; 0.2 mm^2 to 4 mm^2
GNExCP6A Call Point fitted with Weidmüller rail mounted terminals; 0.5 mm^2 to 2.5 mm^2

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BExCP3B and GNExCP6B Call Points fitted with Weidmüller terminal; 0.5 mm^2 to 4 mm^2
BExCP3B and GNExCP6B Call Points fitted with Phoenix terminal; 0.2 mm^2 to 4 mm^2
BExCP3B and GNExCP6B Call Points fitted with Weidmüller rail mounted terminals; 0.5 mm^2 to 2.5 mm^2
BExCP3C and GNExCP6C Call Points fitted with Weidmüller terminal; 0.5mm^2 to 4mm^2
BExCP3C and GNExCP6C Call Points fitted with Phoenix terminal; 0.2mm^2 to 4mm^2
BExCP3C and GNExCP6C Call Points fitted with Weidmüller rail mounted terminals; 0.5mm^2 to 2.5mm^2
BExCP3D and GNExCP6D Call Points fitted with Weidmüller terminal; 0.5mm^2 to 4mm^2
BExCP3D and GNExCP6D Call Points fitted with Phoenix terminal; 0.2mm^2 to 4mm^2
BExCP3D and GNExCP6D Call Points fitted with Weidmüller rail mounted terminals; 0.5mm^2 to 2.5mm^2
BExCP3E and GNExCP6E Call Points fitted with Weidmüller terminal; 0.5mm^2 to 4mm^2
BExCP3E and GNExCP6E Call Points fitted with Phoenix terminal; 0.2mm^2 to 4mm^2
BExCP3E and GNExCP6E Call Points fitted with Weidmüller rail mounted terminals; 0.5mm^2 to 2.5mm^2

15.2 The following apply to the Call Points fitted with Weidmüller Terminals:

- Not more than one single or multiple strand lead shall be connected to a terminal, unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
- Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1mm of the metal of the terminal throat.
- During installation, the terminals shall be only wired with cable in an ambient temperature range between -10°C to 80°C.

15.3 The following apply to the Call Points fitted with Phoenix Terminals:

- The number of conductors per clamping shall be either 1 conductor per clamping unit, 0.2 – 4 mm^2 or 2 conductors with the same cross section and the same conductor type 0.2 – 1.5 mm^2. If 2 conductors are fitted in one clamping unit they may be joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.

15.4 All terminal screws, used or unused, shall be fully tightened down.

15.5 The GNExCP6 Call Points are supplied with M20 threaded entries, the BExCP3 Call Points have plain, M20 holes. All of these shall be fitted with either a cable gland or certified blanking element that is suitable for the application and has been certified by a notified body. These shall provide and maintain a minimum enclosure ingress protection of IP66.

15.6 For BExCP3B, BExCP3C, BExCP3D, BExCP3E, GNExCP6B, GNExCP6C, GNExCP6D and GNExCP6E Call Points that have a maximum rated current marked, the prospective short-circuit current of the circuit connected shall be limited to the marked rated current.

15.7 The enclosure of the GNExCP6 Call Points is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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Certificate Annexe

Certificate Number: **Sira 09ATEX3286X**

Equipment: **BExCP3A, BExCP3B, BExCP3C, BExCP3D, BExCP3E, GNExCP6A, GNExCP6B GNExCP6C, GNExCP6D and GNExCP6E Manual Call Points**

Applicant: **European Safety Systems Limited**

Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
D150-00-001-SC	1 of 1	C	08 Dec 09	BExCP3A-BG & BExCP3B-BG Manual Call Point Assembly
D150-00-001-CD-SC	1 of 1	A	08 Dec 09	BExCP3-XX and BExCP3-XX Call Point Circuit Operation Diagram
D150-00-101-SC	1 of 1	B	08 Dec 09	BExCP3-PB & BExCP3B-PB Manual Call Point Assembly
D150-00-201-SC	1 of 1	B	08 Dec 09	BExCP3-PT & BExCP3B-PT Manual Call Point Assembly
D150-10-900-SC	1 of 1	B	09 Dec 09	BExCP3B/PB/PT Call Point Resistor Potting Drawing
D150-99-001-SC	1 of 1	C	08 Dec 09	BExCP3A and BExCP3B Label Drawings

Issue 1

Drawing	Sheets	Rev	Date (Sira stamp)	Title
D150-00-001-SC	1 of 1	D	22 Dec 11	BExCP3A-BG & BExCP3B-BG Manual Call Point Assembly
D150-00-101-SC	1 of 1	C	22 Dec 11	BExCP3A-PB & BExCP3B-PB manual Call Point Assembly
D150-00-201-SC	1 of 1	C	22 Dec 11	BExCP3A-PT & BExCP3B-PT Manual Call Point Assembly
D154-00-001-SC	1 of 1	B	22 Dec 11	GNExCP6A-BG & GNExCP6B-BG & -PB –PT Manual Call Point Assembly
D154-00-101-SC	1 of 1	A	22 Dec 11	GNExCP6A-PB & GNExCP6B-PB Manual Call Point Assembly
D154-00-201-SC	1 of 1	A	22 Dec 11	GNExCP6A-PT & GNExCP6B-PT Manual Call Point Assembly
D154-00-001-CD-SC	1 of 1	B	22 Dec 11	GNExCP6A-XX and BExCP6B-XX Call Point Circuit Operation Diagram
D154-10-910-SC	1 of 1	A	22 Dec 11	GNExCP6B & BExCP3B – BG/PB/PT Call Point Diode Potting Drawings
D154-10-920-SC	1 of 1	A	22 Dec 11	GNExCP6B & BExCP3B – BG/PB/PT Call Point Zener Diode Potting
D154-10-930-SC	1 of 1	B	22 Dec 11	GNExCP6B-BG/PB/PT Call Point LED & Resistor Potting
D154-99-001-SC	1 of 1	C	22 Dec 11	BExCP6A and BExCP6B Label Drawings

Issue 2 (No new drawings were introduced.)

Issue 3

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
D150-00-001-CD-SC	1 of 1	B	06 Apr 16	BExCP3A-XX and BExCP3B-XX Call Point Circuit Operation Diagram
D150-00-001-SC	1 of 1	E	06 Apr 16	BExCP3A-BG and BExCP3B-BG Manual Call Point Assembly
D150-00-101-SC	1 of 1	D	06 Apr 16	BExCP3A-PB and BExCP3B-PB Manual Call Point Assembly
D150-00-201-SC	1 of 1	D	06 Apr 16	BExCP3A-PT and BExCP3B-PT Manual Call Point Assembly
D150-99-001-SC	1 of 1	D	06 Apr 16	BExCP3A and BExCP3B Label Drawings

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Certificate Annexe

Certificate Number: **Sira 09ATEX3286X**

Equipment: **BExCP3A, BExCP3B, BExCP3C, BExCP3D, BExCP3E, GNExCP6A, GNExCP6B GNExCP6C, GNExCP6D and GNExCP6E Manual Call Points**

Applicant: **European Safety Systems Limited**

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D150-00-001-CD-SC	1 of 1	C	27 Oct 17	BExCP3A, BExCP3B & BExCP3C Call Point Circuit Operation Diagram
D150-00-001-SC	1 of 1	F	27 Oct 17	BExCP3A-BG, BExCP3B-BG & BExCP3C-BG Manual Call Point Assembly
D150-00-101-SC	1 of 1	E	27 Oct 17	BExCP3A-PB, BExCP3B-PB & BExCP3C-PB Manual Call Point Assembly
D150-00-201-SC	1 of 1	E	27 Oct 17	BExCP3A-PT, BExCP3B-PT & BExCP3C-PT Manual Call Point Assembly
D150-10-900-SC	1 of 1	C	27 Oct 17	BExCP3B/C-BG/PB/PT & GNExCP6B/C- BG/PB/PT Call Point Resistor Potting Drawing
D150-99-001-SC	1 of 1	E	14 Nov 17	BExCP3A, BExCP3B & BExCP3C Label Drawing
D154-00-001-CD-SC	1 of 1	C	27 Oct 17	GNExCP6A, GNExCP6B & GNExCP6C Call Point Circuit Operation Diagram
D154-00-001-SC	1 of 1	C	27 Oct 17	GNExCP6A-BG, GNExCP6B-BG & GNExCP6C-BG Manual Call Point Assembly
D154-00-101-SC	1 of 1	B	27 Oct 17	GNExCP6A-PB, GNExCP6B-PB & GNExCP6C-PB Manual Call Point Assembly
D154-00-201-SC	1 of 1	B	27 Oct 17	GNExCP6A-PT, GNExCP6B-PT & GNExCP6C-PT Manual Call Point Assembly
D154-10-930-SC	1 of 1	C	27 Oct 17	GNExCP6B/C-BG/PB/PT Call Point LED & Resistor Potting
D154-99-001-SC	1 of 1	D	14 Nov 17	GNExCP3A, GNExCP3B & GNExCP3C Label Drawings

Issue 5. No new drawings were introduced.

Issue 6

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D150-00-001-CD-SC	1 of 1	D	10 Dec 19	BExCP3A-XX, BExCP3B-XX, BExCP3C-XX and BExCP3D-XX Call Point Circuit Operation Diagram
D150-00-001-SC	1 of 1	G	10 Dec 19	BExCP3A-BG, BExCP3B-BG, BExCP3C-BG and BExCP3D-BG Manual Call Point Assembly
D150-00-101-SC	1 of 1	F	10 Dec 19	BExCP6A-PB, BExCP6B-PB, BExCP6C-PB & BExCP6D-PB Manual Call Point Assembly
D150-00-201-SC	1 of 1	F	10 Dec 19	BExCP6A-PT, BExCP6B-PT, BExCP6C-PT & BExCP6D-PT Manual Call Point Assembly
D150-10-900-SC	1 of 1	D	10 Dec 19	BExCP3B/C/D-BG/PB/PT & GNExCP6B/C/D- BG/PB/PT Call Point Resistor Potting Drawing
D150-99-001-SC	1 of 1	F	12 Dec 19	ExCP3A, BExCP3B, BExCP3C & BExCP3D Label Drawing
D154-00-001-CD-SC	1 of 1	D	10 Dec 19	GNExCP6A, GNExCP6B, GNExCP6C & GNExCP6D Call Point Circuit Operation Diagram
D154-00-001-SC	1 of 1	D	10 Dec 19	GNExCP6A-BG, GNExCP6B-BG, GNExCP6C-BG & GNExCP6D-BG Manual Call Point Assembly
D154-00-101-SC	1 of 1	C	10 Dec 19	GNExCP6A-PB, GNExCP6B-PB, GNExCP6C-PB & GNExCP6D-PB Manual Call Point Assembly

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands

Certificate Annexe

Certificate Number: **Sira 09ATEX3286X**

Equipment: **BExCP3A, BExCP3B, BExCP3C, BExCP3D, BExCP3E, GNExCP6A, GNExCP6B GNExCP6C, GNExCP6D and GNExCP6E Manual Call Points**

Applicant: **European Safety Systems Limited**

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D154-00-201-SC	1 of 1	C	10 Dec 19	GNExCP6A-PT, GNExCP6B-PT, GNExCP6C-PT & GNExCP6D-PT Manual Call Point Assembly
D154-10-910-SC	1 of 1	B	10 Dec 19	GNExCP6B/C/D & BExCP3B/C/D – BG/PB/PT Call Point Diode Potting Drawings
D154-10-920-SC	1 of 1	B	10 Dec 19	GNExCP6B & BExCP3B – BG/PB/PT Call Point Zener Diode Potting
D154-10-930-SC_	1 of 1	D	10 Dec 19	GNExCP6B-BG/PB/PT CALL POINT LED & RESISTOR
D154-99-001-SC	1 of 1	E	12 Dec 19	GNExCP3A, GNExCP3B, GNExCP3C & GNExCP3D Label Drawings

Issue 7

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
D150-00-001-CD-SC	1 of 1	E	27 Jul 20	BExCP3A-XX, BExCP3B-XX, BExCP3C-XX, BExCP3D-XX and BExCP3E-XX Call Point Circuit Operation Diagram
D150-00-001-SC	1 of 1	H	27 Jul 20	BExCP3A-BG, BExCP3B-BG, BExCP3C-BG, BExCP3D-BG and BExCP3E-BG Manual Call Point Assembly
D150-00-101-SC	1 of 1	G	27 Jul 20	BExCP6A-PB, BExCP6B-PB, BExCP6C-PB, BExCP6D-PB and BExCP6E-PB Manual Call Point Assembly
D150-00-201-SC	1 of 1	G	27 Jul 20	BExCP6A-PT, BExCP6B-PT, BExCP6C-PT, BExCP6D-PT and BExCP6D-PT Manual Call Point Assembly
D150-10-900-SC	1 of 1	E	27 Jul 20	BExCP3B/C/D/E-BG/PB/PT & GNExCP6B/C/D/E-BG/PB/PT Call Point Resistor Potting Drawing
D150-99-001-SC	1 of 1	G	28 Jul 20	ExCP3A, BExCP3B, BExCP3C, BExCP3D and BExCP3E Label Drawing
D154-00-001-CD-SC	1 of 1	E	27 Jul 20	GNExCP6A, GNExCP6B, GNExCP6C, GNExCP6D and GNExCP6E Call Point Circuit Operation Diagram
D154-00-001-SC	1 of 1	E	27 Jul 20	GNExCP6A-BG, GNExCP6B-BG, GNExCP6C-BG, GNExCP6D-BG and GNExCP6E-BG Manual Call Point Assembly
D154-00-101-SC	1 of 1	D	27 Jul 20	GNExCP6A-PB, GNExCP6B-PB, GNExCP6C-PB, GNExCP6D-PB and GNExCP6E-BG Manual Call Point Assembly
D154-00-201-SC	1 of 1	D	27 Jul 20	GNExCP6A-PT, GNExCP6B-PT, GNExCP6C-PT, GNExCP6D-PT and GNExCP6DEPT Manual Call Point Assembly
D154-10-910-SC	1 of 1	C	27 Jul 20	GNExCP6B/C/D/E & BExCP3B/C/D/E – BG/PB/PT Call Point Diode Potting Drawings
D154-10-920-SC	1 of 1	C	27 Jul 20	GNExCP6B/C/D/E & BExCP3B/C/D/E – BG/PB/PT Call Point Zener Diode Potting
D154-10-930-SC	1 of 1	E	27 Jul 20	GNExCP6B/C-BG/PB/PT CALL POINT LED & RESISTOR
D154-99-001-SC	1 of 1	F	28 Jul 20	GNExCP3A, GNExCP3B, GNExCP3C, GNExCP3D and GNEXCP3E Label Drawings

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands

EU Declaration of Conformity & Test Certificate
Dichiarazione UE di Conformità & Collaudo

Sensitron S.r.L., Viale Della Repubblica, 48, IT-20007 Cornaredo MI, ITALY

hereby declares under its sole responsibility that the gas detection unit here below

dichiara sotto la propria esclusiva responsabilità che il rilevatore di gas sotto indicato

Model	Modello	**S2097H2**
Detector Type	Tipo Sensore	**NETPEL21M(NP17S) - 2002 mV**
Serial Number	Numero di serie	**D89251**
Lot	Lotto	**24091114**
PWM4..20mA Value	Valore PWM4..20mA	**489**
4-20mA output	Uscita 4-20mA	**OK**
Alarms activation	Attivazione allarmi	**OK**
Active options	Opzioni attive	**Thresholds limit at 60% / Limite soglia al 60%**
Firmware version - date	Versione - Data firmware	**4.01 - BL: 1 - 22.11.2023**
Target gas	Gas rivelato	**H2 HYDROGEN (IDROGENO)**
Relative response	Fattore di conversione	**1.05**
Full scale	Fondo scala	**100 %LFL**
Thresholds	Soglie	**10 / 20 / 30 %LFL**
Hysteresis	Isteresi	**2**
Calibration gas concentration	Concentrazione gas di taratura	**50 %LFL**
Gas bottle S/N	S/N Bombola di taratura	**RISAM, CH4 S/N 15697072 CAL. EXP. 08/28**
Zero points	Punti di zero	**366**
Span points	Punti di span	**629**
Calibration coefficient	Coefficiente di taratura	**3255**
Calibration date	Data collaudo	**11.09.2024**
Surveyor	Collaudatore	**P. Lamagra**

complies with the Essential Health and Safety Requirements of the directives and standards listed below:

è conforme ai Requisiti Essenziali di Sicurezza e Salute delle direttive e delle norme sotto indicate:

ATEX Directive 2014/34/EU / Direttiva ATEX 2014/34/UE

Type of protection / modo di protezione	Harmonised standards / norme armonizzate
II 2G Ex db IIC T5 Gb	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-29-1:2016

Certificate No. / *Certificato n°*: **CESI 02 ATEX 084X**
Certified series / *Serie certificata*: **ST/L/E3/S2**
Released by the Notified Body No. 0722 / *Emesso dal Organismo Notificato N° 0722*:
CESI - Elettrotecnica Sperimentale "G.Motta" Spa, Via R. Rubattino 54, I-20134 Milano - Italy

EMC Directive 2014/30/EU / Direttiva EMC 2014/30/UE

and the following harmonised standards / *ed alle seguenti norme armonizzate:*
EN 50270:2015
EN 61000-6-4:2007

RoHS Directive 2015/863/EU (RoHS 3) / *Direttiva RoHS 2015/863/UE (RoHS 3)*

Sensitron S.r.l. declares that all of our gas detectors are RoHS3 compliant and do not contain any of the restricted substances listed below in concentrations and applications banned by EU Directive 2011/65/EU, Restriction of Hazardous Substances, "RoHS2 Directive" and the revised directive 2015/863/EU.

Restricted substances:
Pb - Lead (for Oxygen detectors, Lead is contained, in a quantity less than 1%, accepted as exemption from RoHS2 and RoHs3 directives devices Category 9 – industrial monitoring and control instruments)
Cd - Cadmium
Hg - Mercury
CrVI - Hexavalent Chromium
PBB - Polybrominated Biphenyls
PBDE - Polybrominated Diphenylethers
DEHP - Bis(2-ethylhexyl)phthalate
BBP - Butyl benzyl phthalate
DBP - Dibutyl phthalate
DIBP - Diisobutyl phthalate

Sensitron S.r.l. dichiara che tutti i nostri rilevatori gas sono conformi alla direttiva RoHS3 e non contengono nessuna delle sostanze soggette a restrizioni elencate di seguito secondo la Direttiva UE 2011/65 / UE, Restrizione di sostanze pericolose, "Direttiva RoHS2" e direttiva rivista 2015/863 / UE.

Sostanze pericolose:
Pb - Piombo (per rilevatori di ossigeno è presente piombo, in quantità inferiore a 1%, approvato come eccezione dalle direttive RoHS2 e RoHs3 per dispositivi di Categoria 9 – industrial monitoring and control instruments)
Cd - Cadmio
Hg - Mercurio
CrVI - Cromo esavalente
PBB - Bifenili polibromurati
PBDE - Difenileteri polibromurati
DEHP - Di-2-etilesilftalato
BBP - Benzilbutilftalato
DBP - Dibutilftalato
DIBP - Diisobutilftalato

Ing. Marco Penso
(EX responsible / *Responsabile EX*)

Cornaredo, 20.12.2024

EU Declaration of Conformity & Test Certificate
Dichiarazione UE di Conformità & Collaudo

Sensitron S.r.L., Viale Della Repubblica, 48, IT-20007 Cornaredo MI, ITALY

hereby declares under its sole responsibility that the gas detection unit here below

dichiara sotto la propria esclusiva responsabilità che il rilevatore di gas sotto indicato

Model	Modello	**S2097H2**
Detector Type	Tipo Sensore	**NETPEL21M(NP17S) - 2002 mV**
Serial Number	Numero di serie	**D89252**
Lot	Lotto	**24091114**
PWM4..20mA Value	Valore PWM4..20mA	**489**
4-20mA output	Uscita 4-20mA	**OK**
Alarms activation	Attivazione allarmi	**OK**
Active options	Opzioni attive	**Thresholds limit at 60% / Limite soglia al 60%**
Firmware version - date	Versione - Data firmware	**4.01 - BL: 1 - 22.11.2023**
Target gas	Gas rivelato	**H2 HYDROGEN (IDROGENO)**
Relative response	Fattore di conversione	**1.05**
Full scale	Fondo scala	**100 %LFL**
Thresholds	Soglie	**10 / 20 / 30 %LFL**
Hysteresis	Isteresi	**2**
Calibration gas concentration	Concentrazione gas di taratura	**50 %LFL**
Gas bottle S/N	S/N Bombola di taratura	**RISAM, CH4 S/N 15697072 CAL. EXP. 08/28**
Zero points	Punti di zero	**375**
Span points	Punti di span	**642**
Calibration coefficient	Coefficiente di taratura	**3206**
Calibration date	Data collaudo	**11.09.2024**
Surveyor	Collaudatore	**P. Lamagra**

complies with the Essential Health and Safety Requirements of the directives and standards listed below:

è conforme ai Requisiti Essenziali di Sicurezza e Salute delle direttive e delle norme sotto indicate:

ATEX Directive 2014/34/EU / Direttiva ATEX 2014/34/UE

Type of protection / modo di protezione	Harmonised standards / norme armonizzate
II 2G Ex db IIC T5 Gb	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-29-1:2016

Certificate No. / *Certificato n°*: **CESI 02 ATEX 084X**
Certified series / *Serie certificata*: **ST/L/E3/S2**
Released by the Notified Body No. 0722 / *Emesso dal Organismo Notificato N° 0722*:
CESI - Elettrotecnica Sperimentale "G.Motta" Spa, Via R. Rubattino 54, I-20134 Milano - Italy

EMC Directive 2014/30/EU / Direttiva EMC 2014/30/UE

and the following harmonised standards / *ed alle seguenti norme armonizzate:*
EN 50270:2015
EN 61000-6-4:2007

RoHS Directive 2015/863/EU (RoHS 3) / *Direttiva RoHS 2015/863/UE (RoHS 3)*

Sensitron S.r.l. declares that all of our gas detectors are RoHS3 compliant and do not contain any of the restricted substances listed below in concentrations and applications banned by EU Directive 2011/65/EU, Restriction of Hazardous Substances, "RoHS2 Directive" and the revised directive 2015/863/EU.

Restricted substances:
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Cd - Cadmium
Hg - Mercury
CrVI - Hexavalent Chromium
PBB - Polybrominated Biphenyls
PBDE - Polybrominated Diphenylethers
DEHP - Bis(2-ethylhexyl)phthalate
BBP - Butyl benzyl phthalate
DBP - Dibutyl phthalate
DIBP - Diisobutyl phthalate

Sensitron S.r.l. dichiara che tutti i nostri rilevatori gas sono conformi alla direttiva RoHS3 e non contengono nessuna delle sostanze soggette a restrizioni elencate di seguito secondo la Direttiva UE 2011/65 / UE, Restrizione di sostanze pericolose, "Direttiva RoHS2" e direttiva rivista 2015/863 / UE.

Sostanze pericolose:
Pb - Piombo (per rilevatori di ossigeno è presente piombo, in quantità inferiore a 1%, approvato come eccezione dalle direttive RoHS2 e RoHs3 per dispositivi di Categoria 9 – industrial monitoring and control instruments)
Cd - Cadmio
Hg - Mercurio
CrVI - Cromo esavalente
PBB - Bifenili polibromurati
PBDE - Difenileteri polibromurati
DEHP - Di-2-etilesilftalato
BBP - Benzilbutilftalato
DBP - Dibutilftalato
DIBP - Diisobutilftalato

Ing. Marco Penso
(EX responsible / *Responsabile EX*)

Cornaredo, 20.12.2024

EU Declaration of Conformity & Test Certificate
Dichiarazione UE di Conformità & Collaudo

Sensitron S.r.L., Viale Della Repubblica, 48, IT-20007 Cornaredo MI, ITALY

hereby declares under its sole responsibility that the gas detection unit here below

dichiara sotto la propria esclusiva responsabilità che il rilevatore di gas sotto indicato

Model	Modello	**S2097H2**
Detector Type	Tipo Sensore	**NETPEL21M(NP17S) - 2002 mV**
Serial Number	Numero di serie	**D89257**
Lot	Lotto	**24091115**
PWM4..20mA Value	Valore PWM4..20mA	**489**
4-20mA output	Uscita 4-20mA	**OK**
Alarms activation	Attivazione allarmi	**OK**
Active options	Opzioni attive	**Thresholds limit at 60% / Limite soglia al 60%**
Firmware version - date	Versione - Data firmware	**4.01 - BL: 1 - 22.11.2023**
Target gas	Gas rivelato	**H2 HYDROGEN (IDROGENO)**
Relative response	Fattore di conversione	**1.05**
Full scale	Fondo scala	**100 %LFL**
Thresholds	Soglie	**10 / 20 / 30 %LFL**
Hysteresis	Isteresi	**2**
Calibration gas concentration	Concentrazione gas di taratura	**50 %LFL**
Gas bottle S/N	S/N Bombola di taratura	**RISAM, CH4 S/N 15697072 CAL. EXP. 08/28**
Zero points	Punti di zero	**366**
Span points	Punti di span	**654**
Calibration coefficient	Coefficiente di taratura	**2972**
Calibration date	Data collaudo	**11.09.2024**
Surveyor	Collaudatore	**P. Lamagra**

complies with the Essential Health and Safety Requirements of the directives and standards listed below:

è conforme ai Requisiti Essenziali di Sicurezza e Salute delle direttive e delle norme sotto indicate:

ATEX Directive 2014/34/EU / Direttiva ATEX 2014/34/UE

Type of protection / modo di protezione	Harmonised standards / norme armonizzate
II 2G Ex db IIC T5 Gb	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-29-1:2016

Certificate No. / *Certificato n°*: **CESI 02 ATEX 084X**
Certified series / *Serie certificata*: **ST/L/E3/S2**
Released by the Notified Body No. 0722 / *Emesso dal Organismo Notificato N° 0722*:
CESI - Elettrotecnica Sperimentale "G.Motta" Spa, Via R. Rubattino 54, I-20134 Milano - Italy

EMC Directive 2014/30/EU / Direttiva EMC 2014/30/UE

and the following harmonised standards / *ed alle seguenti norme armonizzate:*
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EN 61000-6-4:2007

RoHS Directive 2015/863/EU (RoHS 3) / *Direttiva RoHS 2015/863/UE (RoHS 3)*

Sensitron S.r.l. declares that all of our gas detectors are RoHS3 compliant and do not contain any of the restricted substances listed below in concentrations and applications banned by EU Directive 2011/65/EU, Restriction of Hazardous Substances, "RoHS2 Directive" and the revised directive 2015/863/EU.

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PBB - Polybrominated Biphenyls
PBDE - Polybrominated Diphenylethers
DEHP - Bis(2-ethylhexyl)phthalate
BBP - Butyl benzyl phthalate
DBP - Dibutyl phthalate
DIBP - Diisobutyl phthalate

Sensitron S.r.l. dichiara che tutti i nostri rilevatori gas sono conformi alla direttiva RoHS3 e non contengono nessuna delle sostanze soggette a restrizioni elencate di seguito secondo la Direttiva UE 2011/65 / UE, Restrizione di sostanze pericolose, "Direttiva RoHS2" e direttiva rivista 2015/863 / UE.

Sostanze pericolose:
Pb - Piombo (per rilevatori di ossigeno è presente piombo, in quantità inferiore a 1%, approvato come eccezione dalle direttive RoHS2 e RoHs3 per dispositivi di Categoria 9 – industrial monitoring and control instruments)
Cd - Cadmio
Hg - Mercurio
CrVI - Cromo esavalente
PBB - Bifenili polibromurati
PBDE - Difenileteri polibromurati
DEHP - Di-2-etilesilftalato
BBP - Benzilbutilftalato
DBP - Dibutilftalato
DIBP - Diisobutilftalato

Ing. Marco Penso
(EX responsible / *Responsabile EX*)

Cornaredo, 20.12.2024

EU Declaration of Conformity

Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Authorised Representative:	E2S Warnsignaltechnik UG Charlottenstrasse 45-51 72764 Reutlingen Germany
Equipment Type:	D1xS1, D1xS2 D1xL1, D1xL2 D1xC1X05, D1xC1X10, D1xC2X05, D1xC2X10 D1xB2XH1, D1xB2XH2

Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX) - D1xS1, D1xS2, D1xL1, D1xL2, D1xC1X05, D1xC1X10, D1xC2X05 and D1xC2X10 only

Notified Body for EU type Examination (Module B):	UL International Demko A/S Borupvang 5A 2750 Ballerup Denmark
EU-type Examination Certificate (Module B):	DEMKO 19 ATEX 2141X
Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):	Sira Certification Service Notified Body No.: 2813 Unit 6, Hawarden Industrial Park, Hawarden, Deeside, CH5 3US, UK
Quality Assurance Notification (Module D):	SIRA 05 ATEX M342
Provisions fulfilled by the equipment:	II 2G Ex db IIC T6…T3 GB II 2D Ex tb IIIC T82˚C…145˚C Db
Standards applied:	EN 60079-0:2018 EN 60079-1:2014 EN60079-31:2014

Regulation EU No. 305/2011: Construction Products Regulation (CPR) – D1xS1FDC024***A1R & D1xS1FDC024***A1G only – tones 1, 2, 5, 8, 40, 44, 53 only

Notified Product Certification Body for Certificate of Constancy of Performance or EC Type Examination Certificate and continuous surveillance, assessment and evaluation of factory production control:	BRE Global Assurance (Ireland) Limited Notified Body No.: 2831 DCU Alpha, Old Finglas Road, Glasnevin, Dublin, D11 KXN4
Certificate of Constancy of Performance or EC Type Examination Certificate:	2831-CPR-F4858
Standards applied:	EN 54-3:2001 + A1:2002 + A2:2006

Directive 2014/90/EU: Marine Equipment Directive (MED) – part codes specified below only - D1xS1FDC024***A1R & D1xS1FDC024***A1G only

Notified Body for EU type Examination (Module B) and Conformity to EU-type based on quality assurance of the production process (Module D):	DNV AS Notified Body No.: 0575 DNV Høvik, Norway
EU-Certificate Type Examination (Module B):	MEDB000085K
EU Certificate of Conformity for the Quality Assurance System (Module D):	MEDD00000GV
Standards applied:	EN 54-3:2014 incl. A1: 2019 IEC 60092-504: 2016 IEC 60533: 2015

EU Declaration of Conformity

Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied:	EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 / A1:2011 / AC: 2012 EN 61000-6-4:2007 / A1: 2011

Directive 2014/35/EU: Low Voltage Directive (LVD)

Standards applied:	EN 60947-1:2007 + A2:2014

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1992+A2:2013 - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66/67

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.

Desmond Gayler
Quality Assurance Manager

Document No.: DC-067_Issue_K
Date and Place of Issue: London, 18/03/2024

EU Declaration of Conformity

Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Authorised Representative:	E2S Warnsignaltechnik UG Charlottenstrasse 45-51 72764 Reutlingen Germany
Equipment Type:	D1xB2X05, D1xB2X10, D1xB2X15, D1xB2X21, D1xB2LD2, D1xJ2

Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX)

Notified Body for EU type Examination (Module B):	UL International Demko A/S Notified Body No.: 0539 Borupvang 5A, 2750 Ballerup, Denmark
EU-type Examination Certificate (Module B):	DEMKO 19 ATEX 2009X Rev. 1
Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):	Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands
Quality Assurance Notification (Module D):	SIRA 05 ATEX M342
Provisions fulfilled by the equipment:	II 2G Ex d IIC T6…T3 Gb II 2D Ex tb IIIC T95°C…T169°C Db
Standards applied:	EN 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014 IP6X Dust Protection to EN60079-0 / EN60079-31

Regulation EU No. 305/2011: Construction Products Regulation (CPR) –part codes listed below only – 1Hz Flash Mode only

Notified Product Certification Body for Certificate of Constancy of Performance or EC Type Examination Certificate and continuous surveillance, assessment and evaluation of factory production control:	BRE Global Assurance (Ireland) Limited Notified Body No.: 2831 DCU Alpha, Old Finglas Road, Glasnevin, Dublin, D11 KXN4
Certificate of Constancy of Performance or EC Type Examination Certificate:	2831-CPR-F4859 (D1xB2X05DC024***A1R/C, D1xB2X05DC024***A1G/C only) 2831-CPR-F4899 (D1xB2X05DC024***A1R/R, D1xB2X05DC024***A1G/R only)
Standards applied:	EN 54-23:2010

Directive 2014/90/EU: Marine Equipment Directive (MED) – part codes specified only – D1xB2X05DC024***A1R/C ; D1xB2X05DC024***A1R/R ; D1xB2X05DC024***A1G/C ; D1xB2X05DC024***A1G/R

Notified Body for EU type Examination (Module B) and Conformity to EU-type based on quality assurance of the production process (Module D):	DNV AS Notified Body No.: 0575 DNV Høvik, Norway
EU-Certificate Type Examination (Module B):	MEDB000085K
EU Certificate of Conformity for the Quality Assurance System (Module D):	MEDD00000GV
Standards applied:	EN 54-3:2014 incl. A1: 2019 EN 54-23:2010 IEC 60092-504: 2016

EU Declaration of Conformity

IEC 60533: 2015

Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied:	EN IEC 61000-6-1:2019 & IEC 61000-6-1:2016 EN IEC 61000-6-2:2019 & IEC 61000-6-2:2016 EN IEC 61000-6-3:2021 & IEC 61000-6-3:2020 EN IEC 61000-6-4:2019 & IEC 61000-6-4:2018

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1991 + A1:2000 + A2:2013. - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66/67

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.

Desmond Gayler
Quality Assurance Manager

Document No.: DC-077_Issue_G
Date and Place of Issue: London, 01/09/2023

[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2009X Rev. 3**

[4] Product: **D1xB2X - Xenon Beacons, D1xB2LD - LED Beacons, D1xJ2 - Junction Boxes, D2xH1-I/IR - Heat Detectors and D1xH1-A/H/E - Heat Detectors**

[5] Manufacturer: **European Safety Systems Limited**

[6] Address: **Impress House, Mansell Road, Acton, London W3 7QH United Kingdom**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report no. **DK/ULD/ExTR19.0006/03.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-1:2014** **EN IEC 60079-7:2015/A1:2018**
EN 60079-11:2012 **EN IEC 60079-31:2024**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "**X**" is placed after the certificate number, it indicates that the product is subject to the “Specific Conditions of Use” listed under item 17 of this certificate.

[11] This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

II 1 G	**Ex ia IIC T6 Ga** (Heat Detectors – D2xH1-I)	**II 1 G**	**Ex ia IIC T4 Ga** (Heat Detectors – D2xH1-IR)
II 2 G	**Ex db IIC T6….T3 Gb** (D1xB2)	**II 2 G**	**Ex db IIC T6….T4 Gb** (D1xJ2, D1xH1-A/H)
II 2 G	**Ex eb IIC T6…T5 Gb** (D1xJ2-E)	**II 2 G**	**Ex db eb IIC T6…T5 Gb** (D1xH1-E)
II 2 D	**Ex tb IIIC T85˚C …T169˚C Db** (D1xB2, D1xJ2, D1xH1, D2xH1)		

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein (“Certified Product”) has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL’s prior written approval.

Date of issue: 2019-05-03

Re-issued: 2024-08-02

Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 19 ATEX 2009X Rev. 3

[15] Description of Product

D1xB2 series are a range of Electronic Strobe Beacons housed in a flameproof / dust protected aluminium enclosure that are intended to be used as visual warning / signalling devices. The enclosure is accessible via the threaded cover which incorporates a glass dome, the glass dome is cemented into the cover. A stainless steel lens guard and non-metallic lens diffuser are optional. Additionally the 5J, 10J and 15J 24VDC models may be fitted with an additional PCB for SIL monitoring. The range is supplemented by a D1xJ2 Junction Box which is based on the D1xB2 Series enclosure, D1xH Heat Detector and D2xH Heat Detector.. The Junction Box and Heat Detector are closed with a single piece moulded threaded cover instead of the beacon lens and may be fitted with optional indicator LED module (except for Ex eb models).

The intrinsically safe heat detector consists of the D2xJ1 enclosure, heat detector and wiring terminals. D2xH1-IR models may also be fitted with optional EOL Series devices including optional LED module.

Nomenclature (Beacons):

Model	Beacon energy (Joules)	Voltage	Suffixes
D1xB2X	05	DC012	Up to 4 alpha numeric characters, not associated with equipment certification
		DC024	
		DC048	
		AC115	
		AC230	
D1xB2X	10	DC024	
		DC048	
		AC115	
		AC230	
D1xB2X	15	DC024	
		DC048	
		AC115	
		AC230	
D1xB2X	21	DC024	
		DC048	
		AC115	
		AC230	
D1xB2LD2 (LED beacon)	-	DC024	
	-	AC115	
	-	AC230	

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EU-TYPE EXAMINATION CERTIFICATE No.
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Nomenclature (Junction boxes):

Model	Suffix
D1xJ2	T01 = Terminal block
	D01 = Din Rail AKZ
	M01 = Module mounted on internal bracket
	-E = Increased safety

Nomenclature (Heat Detectors):

Model	Suffix
D1xH1-	A = Ex db / Ex tb model
	H = Ex db / Ex tb high temperature model
	E = Ex db eb / Ex tb model
D2xH1-	I = Ex ia model / Ex tb model
	IR = Ex ia, with resistor model / Ex tb with resistor model

Performance testing

The optical radiation output of the beacon products with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is not covered in this certificate.

The optical radiation output of the LED indicator included in this product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015.

Temperature ratings (Beacons):

Model	Type of protection	Temperature Class	Associated Maximum Ambient Temperature
D1xB2X05DC012 D1xB2X05DC024 D1xB2X05DC048	Ex db IIC	T4	-55˚C to +80˚C
		T5	-55˚C to +75˚C
		T6	-55˚C to +60˚C
	Ex tb IIIC	T104˚C	-55˚C to +80˚C
D1xB2X05AC115 D1xB2X05AC230	Ex db IIC	T4	-55˚C to +80˚C
		T5	-55˚C to +50˚C
	Ex tb IIIC	T116˚C	-55˚C to +70˚C
D1xB2X10DC024 D1xB2X10DC048	Ex db IIC	T4	-55˚C to +80˚C
		T5	-55˚C to +45˚C
	Ex tb IIIC	T135˚C	-55˚C to +80˚C
D1xB2X10AC115 D1xB2X10AC230	Ex db IIC	T3	-55˚C to +70˚C
		T4	-55˚C to +65˚C
	Ex tb IIIC	T139˚C	-55˚C to +70˚C
D1xB2X15DC024 D1xB2X15DC048	Ex db IIC	T3	-55˚C to +80˚C
		T4	-55˚C to +65˚C
	Ex tb IIIC	T146˚C	-55˚C to +80˚C
D1xB2X15AC115 D1xB2X15AC230	Ex db IIC	T3	-55˚C to +70˚C
		T4	-55˚C to +65˚C
	Ex tb IIIC	T139˚C	-55˚C to +70˚C
D1xB2X21DC024 D1xB2X21DC048	Ex db IIC	T3	-55˚C to +80˚C
		T4	-55˚C to +45˚C
	Ex tb IIIC	T169˚C	-55˚C to +80˚C

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Model	Type of protection	Temperature Class	Associated Maximum Ambient Temperature
D1xB2X21AC115 D1xB2X21AC230	Ex db IIC	T3	-55˚C to +60˚C
		T4	-55˚C to +50˚C
	Ex tb IIIC	T141˚C	-55˚C to +60˚C
D1xB2LD2	Ex db IIC	T5	-55˚C to +80˚C
		T6	-55˚C to +70˚C
	Ex tb IIIC	T95˚C	-55˚C to +80˚C

Temperature ratings (Junction Boxes):

Model	Type of protection	Temperature Class	Associated Maximum Ambient Temperature
D1xJ2***	Ex db IIC	T4	-55˚C to +80˚C
		T5	-55˚C to +70˚C
		T6	-55˚C to +55˚C
	Ex tb IIIC	T106˚C	-55˚C to +80˚C
D1xJ2-E	Ex eb IIC	T5	-55˚C to +80˚C
		T6	-55˚C to +75˚C
	Ex tb IIIC	T85˚C	-55˚C to +80˚C

Temperature ratings (Heat Detectors):

Model	Type of protection	Temperature Class	Associated Maximum Ambient Temperature
D1xH1-A	Ex db IIC	T4	-55˚C to +80˚C
		T5	-55˚C to +70˚C
		T6	-55˚C to +55˚C
	Ex tb IIIC	T106 ˚C	-55˚C to +80˚C
D1xH1-H	Ex db IIC	T4	-55˚C to +125˚C
		T5	-55˚C to +90˚C
		T6	-55˚C to +75˚C
	Ex tb IIIC	T130 ˚C	-55˚C to +125˚C
		T85 ˚C	-55˚C to +80˚C
D1xH1-E	Ex db eb IIC	T5	-55˚C to +80˚C
		T6	-55˚C to +75˚C
		T85˚C	-55˚C to +80˚C
D2xH1-I	Ex ia IIC	T6	–40°C to +50°C
	Ex tb IIIC	T75˚C	–40°C to +50°C
D2xH1-IR	Ex ia IIC	T4	–40°C to +50°C
	Ex tb IIIC	T75˚C	–40°C to +50°C

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Electrical Data (Beacons):

Model	Voltage DC	Voltage AC	Freq. Hz	Maximum Current mAmps
D1xB2X05DC012	10-14	-	-	600
D1xB2X05DC024	20-28	-	-	350
D1xB2X05DC048	42-54	-	-	150
D1xB2X05AC115	-	110-120	50/60	200
D1xB2X05AC230	-	220-240	50/60	100
D1xB2X10DC024	20-28	-	-	710
D1xB2X10DC048	42-54	-	-	250
D1xB2X10AC115	-	110-120	50/60	300
D1xB2X10AC230	-	220-240	50/60	180
D1xB2X15DC024	20-28	-	-	920
D1xB2X15DC048	42-54	-	-	360
D1xB2X15AC115	-	110-120	50/60	420
D1xB2X15AC230	-	220-240	50/60	230
D1xB2X21DC024	20-28	-	-	1240
D1xB2X21DC048	42-54	-	-	560
D1xB2X21AC115	-	110-120	50/60	530
D1xB2X21AC230	-	220-240	50/60	270
D1xB2LD2DC024	18-54	-	-	500
D1xB2LD2AC115	-	110-120	50/60	180
D1xB2LD2AC230	-	220-240	50/60	100

Electrical Data (Junction Boxes):

Model	Voltage DC	Voltage AC	Freq. Hz	Maximum power Watts	Maximum Current Amps
D1xJ2***	60VDC Max	260VAC Max	50/60	10 Watts	-
D1xJ2-E	60VDC Max	260VAC Max	50/60	-	5A

Electrical Data (Heat Detectors):

Model	Voltage DC	Voltage AC	Freq. Hz	Maximum power Watts	Maximum Current Amps
D1xH1-A	125Vdc	125Vac	50/60	10 Watts	-
D1xH1-H				1.25 Watts	-
D1xH1-E	24Vdc	-	--	-	2A
	32Vdc	-	-	-	1A
	-	32Vac	50/60	-	5A

For Intrinsic Safety models D2xH1-I and D2xH1-IR:
Ui = 30V
Ii = 500mA
Pi = 1100mW
Ci = 0
Li = 0

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[13] **Schedule**

[14] **EU-TYPE EXAMINATION CERTIFICATE No.**

DEMKO 19 ATEX 2009X Rev. 3

Routine tests

Routine tests according to EN 60079-1, cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

The cemented lead seal of the LED modules shall be subjected to a batch overpressure test of at least 363 psi / 25.02 bar for at least 10 s in accordance with Clause 16.6 of IEC 60079-1, 7th Edition.

Heat Detector probe integrity of welds is to be verified by one of the inspection methods in accordance with Clause 16.3 of IEC 60079-1, 7th Edition.

All D1xH1-E shall be routinely dielectrically strength tested between live/neutral and earth/enclosure. The tests shall be performed as described in IEC 60079-7, clause 6.1, at 500V rms for at least 1 minute (or 600V rms for at least 100 ms).

[16] Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17] Specific conditions of use:

- The enclosure coating is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
- Repair of the flamepaths is not permitted.

For Ex ia Intrinsically Safe installation of models D2xH1-I and D2xH1-IR:

- End user shall adhere to the manufacturer's installation and instruction when performing housekeeping to avoid the potential for hazardous electrostatic charges during cleaning, by using a damp cloth.
- The equipment does not provide 500V isolation between the intrinsically safe circuit and parts which may be earthed. This shall be considered in the end-use application to ensure the possibility of an earth connection will not compromise intrinsic safety. Refer to EN/IEC 60079-14.
- Avoid impact or friction with the equipment.

[18] Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark e2S warning signals will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

This certificate may only be reproduced in its entirety and without any change.

[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2141X Rev. 2**

[4] Product: **Loudspeakers (D1xL*), Sounders (D1xS*) and Combined Sounder Beacons (D1xC*)**

[5] Manufacturer: **European Safety Systems Limited**

[6] Address: **Units 18 & 20, Impress House, Mansell Road, Acton, London W3 7QH United Kingdom**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **DK/ULD/ExTR19.0008/02.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**EN 60079-1:2014**
EN 60079-31:2014	**IEC 60079-31, Edition 3.0 (2022-01)**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "**X**" is placed after the certificate number, it indicates that the product is subject to the “Specific Conditions of Use” listed under item 17 of this certificate.

[11] This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

II 2 G Ex db IIC T6 …T3 Gb

II 2 D Ex tb IIIC T82°C …T145°C Db

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein (“Certified Product”) has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL’s prior written approval.

Date of issue: 2019-04-30
Re-issued: 2023-09-06

Notified Body
UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 19 ATEX 2141X Rev. 2

[15] Description of Product

D1xS* (sounder) comprises an Aluminium enclosure housing components to generate selectable tones. Up to three M20 threaded entries may be provided for installation of appropriately certified cable entry devices by the end user.
The D1xL* (loudspeaker) utilizes the same enclosures and houses components to amplify sound.
D1xC* (sounder beacon) is the same housing as the D1xS* except on one end the beacon assembly is mounted. The lamp is protected by a glass lens and a stainless steel wire guard. Additional electrical components associated with the operation of the 5 and 10 Joule beacon are installed within the housing and reflected by the nomenclature with “AC” or “DC” followed by the voltage.

Model Nomenclature:

Sounder:

Example - D1xS1-DC024-A

Model	**Model Voltage** (refer to electrical tables below)	**Suffix**
D1xS1 – low power	AC230	-A – Standard Unit -S – SIL Unit (DC024 only)
	DC024	
D1xS2 – medium and high power	AC230	
	DC024	

All models detailed are permitted to use any radial or flare horn.

Sounder Beacon:

Example - D1xC1X05-DC024-A

Model	**Beacon Energy**	**Model Voltage** (refer to electrical input tables)	**Suffix**
D1xC1X – low power sounder	05- 10-	AC115	-A – Standard Unit
D1xC2X – medium and high power sounder		AC230	
		DC024	

All models detailed are permitted to use any radial or flare horn.

Loudspeaker:

Example - D1xL1FV070-A

Model	
D1xL1FV725-A	15W, 25V to 70V loudspeaker, standard unit
D1xL2FV725-A	25W, loudspeaker, small flare
D1xL2HV725-A	25W, loudspeaker, large flare
D1xL1FV070	15W 70V loudspeaker
D1xL1FV070-A	15W 70V loudspeaker, standard unit
D1xL2FV070	25W 70V loudspeaker, small flare
D1xL2HV070	25W 70V loudspeaker, large flare
D1xL2FV070-A	25W 70V loudspeaker, standard unit, small flare
D1xL2HV070-A	25W 70V loudspeaker, standard unit, large flare
D1xL1FV100-A	15W 100V loudspeaker, standard unit
D1xL2FV100-A	25W 100V loudspeaker, standard unit, small flare
D1xL2HV100-A	25W 100V loudspeaker, standard unit, large flare
D1xL1FR008-A	15W, 8 ohm resistance loudspeaker, standard unit
D1xL1FR016-A	15W, 16 ohm resistance loudspeaker, standard unit
D1xL2FR008-A	25W 8 ohm resistance loudspeaker, standard unit, small flare
D1xL2FR016-A	25W 16 ohm resistance loudspeaker, standard unit, small flare
D1xL2HR008-A	25W 8 ohm resistance loudspeaker, standard unit, large flare
D1xL2HR016-A	25W 16 ohm resistance loudspeaker, standard unit, large flare
D1xL1-AXIS-A	12.95W PoE input, loudspeaker, small flare
D1xL2-AXIS-A	12.95W PoE input, loudspeaker, large flare

All models detailed are permitted to use any radial or flare horn.

Performance testing

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 2 to the scope of EN 60079-28:2015.

Temperature range:
The relation between ambient temperature and the assigned temperature class is as follows:

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[14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 19 ATEX 2141X Rev. 2

Loudspeaker:

Models	Temperature Class (Gas)	Temperature Class (Dust)	Associated Maximum Ambient Temperature
D1xL1-V070 (-A) D1xL1-R008 (-A) D1xL1-R016 (-A) D1xL1-AXIS-A	T5	T86°C	-55°C to +75°C
	T6	-	-55°C to +60°C
D1xL2-V070 (-A) D1xL2-R008 (-A) D1xL2-R016 (-A) D1xL2-AXIS-A	T5	T91°C	-55°C to +75°C
	T6	-	-55°C to +55°C
D1xL1-V100-A	T5	T92°C	-55°C to +75°C
	T6	-	-55°C to +60°C
D1xL2-V100-A	T4	T98°C	-55°C to +75°C
	T5	-	-55°C to +70°C
	T6	-	-55°C to +55°C
D1xL1-V725-A	T6	-	-55°C to +60°C
	T5	T91°C	-55°C to +75°C
D1xL2-V725-A	T6	-	-55°C to +55°C
	T5	-	-55°C to +70°C
	T4	T97°C	-55°C to +75°C

Sounder Temperature Range:

Model	Temperature Class (Gas)	Temperature Class (Dust)	Associated Maximum Ambient Temperature
D1xS1-DC024-A	T5	T84°C	-55°C to +75°C
	T6	-	-55°C to +70°C
D1xS1-DC024-S	T5	T84°C	-55°C to +75°C
	T6	-	-55°C to +70°C
D1xS1-AC230-A	T5	T82°C	-55°C to +75°C
	T6	-	-55°C to +70°C
D1xS2-DC024-A	T5	T95°C	-55°C to +75°C
	T6	-	-55°C to +60°C
D1xS2-DC024-S	T5	T95°C	-55°C to +75°C
	T6	-	-55°C to +60°C
D1xS2-AC230-A	T5	T93°C	-55°C to +75°C
	T6	-	-55°C to +60°C

Sounder Beacon Temperature Range:

Model	Temperature Class (Gas)	Temperature Class (Dust)	Associated Maximum Ambient Temperature
D1xC1X05-DC024-A	T4	T115°C	-55°C to +75°C
	T5	-	-55°C to +55°C
	T6	-	-55°C to +40°C
D1xC1X05-AC115-A	T4	T122°C	-55°C to +75°C
	T5	-	-55°C to +45°C
D1xC1X05-AC230-A	T4	T122°C	-55°C to +75°C
	T5	-	-55°C to +45°C
D1xC2X05-DC024-A	T4	T115°C	-55°C to +75°C
	T5	-	-55°C to +55°C
	T6	-	-55°C to +40°C
D1xC2X05-AC115-A	T4	T122°C	-55°C to +75°C
	T5	-	-55°C to +45°C
D1xC2X05-AC230-A	T4	T122°C	-55°C to +75°C
	T5	-	-55°C to +45°C
D1xC1X10-DC024-A	T3	T137°C	-55°C to +75°C
	T4	-	-55°C to +65°C
D1xC1X10-AC115-A	T3	T145°C	-55°C to +75°C
	T4	-	-55°C to +60°C
D1xC1X10-AC230-A	T3	T145°C	-55°C to +75°C
	T4	-	-55°C to +60°C
D1xC2X10-DC024-A	T3	T137°C	-55°C to +75°C
	T4	-	-55°C to +65°C
D1xC2X10-AC115-A	T3	T145°C	-55°C to +75°C
	T4	-	-55°C to +60°C
D1xC2X10-AC230-A	T3	T145°C	-55°C to +75°C
	T4	-	-55°C to +60°C

This certificate may only be reproduced in its entirety and without any change.

[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 19 ATEX 2141X Rev. 2

Electrical data

Loudspeakers:

Model	Voltage Range	Frequency
D1xL1-V725, D1xL2-V725, D1xL1-V725-A, D1xL2-V725-A	70V Line / 25V Line	N/A
D1xL1-V070, D1xL2-V070, D1xL1-V070-A, D1xL2-V070-A	70V Line	N/A
D1xL1-V100-A, D1xL2-V100-A	100V Line	N/A
D1xL1-R008, D1xL1-R008-A	10.95V Max. I/P	N/A
D1xL1-R016, D1xL1-R016-A	15.49V Max. I/P	N/A
D1xL2-R008, D1xL2-R008-A	14.14V Max. I/P	N/A
D1xL2-R016, D1xL2-R016-A	20.00V Max. I/P	N/A
D1xL1-AXIS-A, D1xL2-AXIS-A	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 (Max. 12.95 W)	N/A

'-' Horn Type

Sounders:

Model	Sounder PCBA Power Mode	Voltage Range	Frequency
D1xS1-DC024-A	Low	11.5-54VDC	-
D1xS2-DC024-A	Medium & High		
D1xS1-DC024-S	Low	20-28VDC	-
D1xS2-DC024-S	Medium & High		
D1xS1-AC230-A	Low	100-240VAC	50/60Hz
D1xS2-AC230-A	Medium & High		

'-' Horn Type

Sounder Beacons:

Model	Sounder PCBA Power Mode	Voltage Range	Frequency
D1xC1X05-DC024-A, D1xC1X10-DC024-A	Low	20-28VDC	-
D1xC2X05-DC024-A, D1xC2X10-DC024-A	Medium & High		
D1xC1X05-AC115-A, D1xC1X10-AC115-A,	Low	110-120VAC	50/60Hz
D1xC2X05-AC115-A, D1xC2X10-AC115-A	Medium & High		
D1xC1X05-AC230-A D1xC1X10-AC230-A	Low	220-240VAC	50/60Hz
D1xC2X05-AC230-A, D1xC2X10-AC230-A	Medium & High		

'-' Horn Type

Routine tests

D1xC* Units only:

Routine overpressure tests in accordance with EN 60079-1:2014 shall be conducted on a number of units (detailed below) in accordance with clause 16.6, at a pressure of 222 psi / 15.3 bar for a duration of not less than 10 seconds. There shall be no sign of damage, deformation or rupture that will invalidate the concept of protection. The cement joint is not permitted to leak. If there are any non-compliant results, all remaining samples in the batch and future batches shall be tested at 1.5 times the reference pressure until confidence is established to reconsider batch testing.

- For a production batch up to 100, a sampling of 8 needs to be tested at 1.5 times the reference pressure with no failure.
- For a production batch from 101-1000, a sampling of 32 needs to be tested at 1.5 times the reference pressure with no failures.
- For a production batch from 1001 up to 10,000, a sampling of 80 needs to be tested at 1.5 times the reference pressure with no failures.
- Batches above 10,000 must be subdivided into smaller batches.

[16] Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

This certificate may only be reproduced in its entirety and without any change.

[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 19 ATEX 2141X Rev. 2

[17] Specific conditions of use:

- No repair to the flameproof joints is permitted.

[18] Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark e2S warning signals will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

This certificate may only be reproduced in its entirety and without any change.

DECLARATION OF PERFORMANCE

Manufacturer: European Safety Systems Ltd.
Impress House, Mansell Road, Acton
London, W3 7QH, UK

Equipment Type: D1xS1FDC024***A1R & D1xS1FDC024***A1G
Electronic Sounder

Intended Use: Fire Safety (Fire Detection and Fire Alarm Systems – Alarm Devices – Sounders, installed in and around buildings)

System of Assessment and Verification of Constancy of Performance: 1

Notified Body for EC type Examination and Factory Production Control: BRE Global Assurance (Ireland) Ltd
Notified Body No.: 2831
DCU Alpha, Old Finglas Road, Glasnevin
Dublin 11 D11 KXN4 Ireland

EC-type Examination Certificate: 2831-CPR-F4858

Notified Body for UKCA Examination and Factory Production Control: BRE Global Ltd
Notified Body No.: 0832
Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

UKCA Examination Certificate: 0832-UKCA-CPR-F1782

Standards: EN 54-3:2001 / A1:2002 / A2:2006
Units tested to EN 54-3:2014 / A1:2019

Declared Performance:

Essential Characteristics	Performance	Standard
Performance parameters under fire conditions		EN 54-3:2001 / A1:2002 / A2:2006
- Sound level	Pass	Clause 4.2
- Frequencies and sound pattern	Pass	Clause 4.3
- Reproducibility	Pass	Clause 5.2
- Operational Performance	Pass	Clause 5.3
- Attention drawing signal and message broadcast sequences	Not applicable	Clause C.3.1
- Synchronisation	Not applicable	Clause C.3.2
- Broadcast message performance	Not applicable	Clause C.5.1
- Attention drawing signal/silence/message sequence timing	Not applicable	Clause C.5.2
- Message synchronisation testing	Not applicable	Clause C.5.3
Operational reliability		EN 54-3:2001 / A1:2002 / A2:2006
- Durability	Pass	Clause 4.4
- Construction	Pass	Clause 4.5
- Marking and data	Pass	Clause 4.6
- Durability	Pass	Clause 5.4
- General testing	Not applicable	Clause C.4
Durability of operational reliability, temperature resistance		EN 54-3:2001 / A1:2002 / A2:2006
- Dry heat (operational)	Pass	Clause 5.5
- Dry heat (endurance)	Pass	Clause 5.6
- Cold (operational)	Pass	Clause 5.7
- Damp heat. Cyclic (operational)	Pass	Clause 5.8
Damp heat, steady state (endurance) Durability of operational reliability, humidity resistance	Pass	Clause 5.9
- Damp heat, cyclic (operational)	Pass	Clause 5.8
- Damp heat, steady state (endurance)	Pass	Clause 5.9
- Damp heat, cyclic (endurance)	Pass	Clause 5.10
Durability of operational reliability, corrosion resistance		
- Sulphur dioxide (SO2) corrosion (endurance)	Pass	Clause 5.11
Durability of operational reliability, shock and vibration resistance		
- Shock (operational)	Pass	Clause 5.12
- Impact (operational)	Pass	Clause 5.13
- Vibration, sinusoidal (operational)	Pass	Clause 5.14
- Vibration, sinusoidal (endurance)	Pass	Clause 5.15
Durability of operational reliability, electrical stability		
- Electromagnetic compatibility (EMC), immunity (operational)	Pass	Clause 5.16
Durability of operational reliability, resistance to ingress		
- Enclosure protection	Pass	Clause 5.17

DECLARATION OF PERFORMANCE

Manufacturer: European Safety Systems Ltd.
Impress House, Mansell Road, Acton
London, W3 7QH, UK

The performance of the product identified above is in conformity with the declared performance. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.



Martin Streetz
Quality Assurance Manager

Date and Place of Issue: London, 25/07/2023
Document No: DP-2831-CPR-F4858
Issue: B

DECLARATION OF PERFORMANCE

Manufacturer: European Safety Systems Ltd.
Impress House, Mansell Road, Acton
London, W3 7QH, UK

Equipment Type:	D1xB2X05DC024 Beacon
Intended Use:	Fire Safety (Fire Detection and Fire Alarm Systems – Alarm Devices – VAD, installed in and around buildings)
System of Assessment and Verification of Constancy of Performance:	1
Notified Body for EC type Examination and Factory Production Control:	BRE Global Assurance (Ireland) Ltd Notified Body No.: 2831 DCU Alpha, Old Finglas Road, Glasnevin Dublin 11 D11 KXN4 Ireland
EC-type Examination Certificate:	2831-CPR-F4859 for clean lens models D1xB2X05DC024***A1R/C & D1xB2X05DC024***A1G/C D1xB2X05DC024***ATR/C & D1xB2X05DC024***ATG/C 2831-CPR-F4899 for red lens models D1xB2X05DC024***A1R/R & D1xB2X05DC024***A1G/R D1xB2X05DC024***ATR/R & D1xB2X05DC024***ATG/R
Notified Body for UKCA Examination and Factory Production Control:	BRE Global Ltd Notified Body No.: 0832 Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX
UKCA Examination Certificate:	0832-UKCA-CPR-F1783 for clear lens models D1xB2X05DC024***A1R/C & D1xB2X05DC024***A1G/C D1xB2X05DC024***ATR/C & D1xB2X05DC024***ATG/C 0832-UKCA-CPR-F1854 for red lens models D1xB2X05DC024***A1R/R & D1xB2X05DC024***A1G/R D1xB2X05DC024***ATR/R & D1xB2X05DC024***ATG/R
Standards:	EN54-23:2010

Declared Performance:

Essential Characteristics	Performance	Standard / Clause
Operational Reliability		EN 54-23:2010
- Duration of Operation	Pass	Clause 4.2.1
- Provision for external conductors	Pass	Clause 4.2.2
- Flammability of Materials	Pass	Clause 4.2.3
- Enclosure Protection	Pass	Clause 4.2.4
- Access	Pass	Clause 4.2.5
- Manufacturer's adjustments	Pass	Clause 4.2.6
- On-site adjustment of behaviour	Pass	Clause 4.2.7
- Requirements for Software controlled devices	Pass	Clause 4.2.8
Performance Parameters under fire conditions		EN 54-23:2010
- Coverage Volume	Pass	Clause 4.3.1
- Variation of Light Output	Pass	Clause 4.3.2
- Minimum and Maximum light intensity	Pass	Clause 4.3.3
- Light colour	Pass	Clause 4.3.4
- Light temporal pattern and frequency of flashing	1Hz	Clause 4.3.5
- Marking and Data	Pass	Clause 4.3.6
- Synchronisation	Pass	Clause 4.3.7
Durability, Temperature Resistance		EN 54-23:2010
- Dry Heat (operational)	Pass	Clause 4.4.1.1
- Dry Heat (endurance)	Pass	Clause 4.4.1.2
- Cold (operational)	Pass	Clause 4.4.1.3
Durability, Humidity resistance		
- Damp heat, cyclic (operational)	Pass	Clause 4.4.2.1
- Damp heat, steady state (endurance)	Pass	Clause 4.4.2.2
- Damp heat cyclic (endurance)	Pass	Clause 4.4.2.3
Durability, Shock and vibration resistance	Pass	Clause 4.4.3.1
- Shock (operational)		

DECLARATION OF PERFORMANCE

Manufacturer: European Safety Systems Ltd.
Impress House, Mansell Road, Acton
London, W3 7QH, UK

- Impact (operational)	Pass	Clause 4.4.3.2
- Vibration, sinusoidal (operational)	Pass	Clause 4.4.3.3
- Vibration, sinusoidal (endurance)	Pass	Clause 4.4.3.4
Durability, Corrosion Resistance		
- Sulphur Dioxide (SO2) corrosion (endurance)	Pass	Clause 4.4.4
Durability, Electrical stability		
- Electromagnetic compatibility (EMC), immunity (operational)	Pass	Clause 4.4.5

The performance of the product identified above is in conformity with the declared performance. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Martin Streetz
Quality Assurance Manager

Date and Place of Issue: London, 25/07/2023
Document No: DP-2831-CPR-F4859
Issue: B

EU Declaration of Conformity

Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Authorised Representative:	E2S Warnsignaltechnik UG Charlottenstrasse 45-51 72764 Reutlingen Germany
Equipment Type:	STExCP8-BG-S, STExCP8-BG-D, STExCP8-BG-S-L or C, STExCP8-BG-D-L or C STExCP8-PB-S, STExCP8-PM-S, STExCP8-PT-S, STExCP8-PB-S-L or C, STExCP8-PM-S-L or C, STExCP8-PT-S-L or C, STExCP8-PB-D, STExCP8-PM-D, STExCP8-PT-D STExCP8-PB-D-L or C, STExCP8-PM-D-L or C, STExCP8-PT-D-L or C

Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX)

Notified Body for EU type Examination (Module B):	UL International Demko A/S Notified Body No.: 0539 Borupvang 5A, 2750 Ballerup, Denmark
EU-type Examination Certificate (Module B):	DEMKO 15ATEX1589X
Notified Body for Quality Assurance Notification / Conformity to EU-type based on quality assurance of the production process (Module D):	Sira Certification Service Notified Body No.: 2813 CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands
Quality Assurance Notification (Module D):	SIRA 05 ATEX M342
Provisions fulfilled by the equipment:	II 2G Ex db IIC T4 Gb II 2G Ex db IIC T5 Gb II 2G Ex db IIC T6 Gb
Standards applied:	EN 60079-0: 2012 + A11: 2013 EN 60079-1: 2014

Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC)

Standards applied:	EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 / A1:2011 / AC: 2012 EN 61000-6-4:2007 / A1: 2011

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1992+A2:2013 - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66

EU Declaration of Conformity

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

This Declaration is issued under the sole responsibility of the manufacturer.



Martin Streetz
Quality Assurance Manager

Document No.: DC-071_Issue_E
Date and Place of Issue: London 10/09/2023

[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] EU-Type Examination Certificate Number: **DEMKO 15 ATEX 1589X Rev. 4**

[4] Product: **Call Point Switch, Model STExCP8- PT-S / PM-S / PB-S / PT-D / PM-D / PB-D / BG-S / BG-D / PT-I / PM-I / PB-I / BG-I / PT-IR / PM-IR / PB-IR / BG-IR**

[5] Manufacturer: **European Safety Systems Limited**

[6] Address: **Impress House, Mansell Road, Acton, London W3 7QH United Kingdom**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **DK/ULD/ExTR15.0019/04.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-1:2014** **EN 60079-11:2012**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "**X**" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

II 2 G Ex db IIC T4 Gb
Ex db IIC T5 Gb
Ex db IIC T6 Gb

II 1 G Ex ia IIC T6 Ga (models STExCP8--I)**

II 1 G Ex ia IIC T4 Ga (models STExCP8--IR)**

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2016-03-17
Re-issued: 2023-12-19

Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 15 ATEX 1589X Rev. 4

[15] Description of Product

The STExCP8 range of Call Point Switches are manual call points are for the activation of fire and gas alarm systems.

Available as Dual Action Push Button (PB), Momentary Push Button (PM), Tool Reset Push Button (PT) or Break Glass (BG) with a single (S) or dual (D) micro-switch switching capability. An indicator LED may be fitted in one of the M20 threaded entries.

All models can be fitted with series resistors, end-of-line monitoring resistors, monitoring diodes and zener diodes if supplied with direct current of up to 48 Vdc.

The STExCP8-xx-I and STExCP8-xx-IR range of Call Point Switches are as described above and provide Ex ia type of protection when used with suitable Zener Barrier or Galvanic Isolators. Terminal blocks are either DIN rail mounted or PCB mounted. End of line and series monitoring resistors or diodes may be fitted in the factory or by the installer/end-user. There is also an option for an LED module to be fitted. All components are considered as a single intrinsically safe circuit.

Product Nomenclature:

Ex db Product Nomenclature:

STEx	CP8-	PB-	S	-L
I	II	III	IV	V

I – Enclosure Series
- STEx – Primary Enclosure Series

II – Certifications
- CP8- - Call Point 8

III – Type of Enclosure
- BG- - Break Glass
- PB- - Push Button
- PM- - Momentary Push Button
- PT- - Push Button & Tool Reset

IV – Switch configuration Width of Enclosure
- S - Single microswitch
- D - Dual microswitch

V – LED option
- Blank – No LED
- -C – LED, without resistor
- -L – LED, with resistor

Ex ia Product Nomenclature:

STEx	CP8-	PB-	I
I	II	III	IV

I – Enclosure Series
- STEx – Primary Enclosure Series

II – Certifications
- CP8- - Call Point 8

III – Type of Enclosure
- BG- - Break Glass
- PB- - Push Button
- PM- - Momentary Push Button
- PT- - Push Button & Tool Reset

IV – Product Version
- I – Intrinsically Safe Version with Single or Double Switch with no EOL or Series Devices
- IR - Intrinsically Safe Version with Single or Double Switch with optional EOL Series devices including optional LED module.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

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[13]

[14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 15 ATEX 1589X Rev. 4

Temperature range

The relation between ambient temperature and the assigned temperature class for Ex db and Ex ia models is as follows:

Model	Maximum Ambient (-55ºC to xxºC)			
	50°C	+60ºC	+65ºC	+70ºC
STExCP8-PB-S	-	-	-	T6
STExCP8-PB-S-L STExCP8-PB-S-C	-	-	T6	T5
STExCP8-PB-D	-	T6	-	T5
STExCP8-PB-D-L STExCP8-PB-D-C	T6	-	T5	T4
STExCP8-PB-I	-	-	-	T6
STExCP8-PB-IR	-	-	-	T4
STExCP8-PM-S	-	-	-	T6
STExCP8-PM-S-L STExCP8-PM-S-C	-	-	T6	T5
STExCP8-PM-D	-	T6	-	T5
STExCP8-PM-D-L STExCP8-PM-D-C	T6	-	T5	T4
STExCP8-PM-I	-	-	-	T6
STExCP8-PM-IR	-	-	-	T4
STExCP8-PT-S	-	-	-	T6
STExCP8-PT-S-L STExCP8-PT-S-C	-	-	T6	T5
STExCP8-PT-D	-	T6	-	T5
STExCP8-PT-D-L STExCP8-PT-D-C	T6	-	T5	T4
STExCP8-PT-I	-	-	-	T6
STExCP8-PT-IR	-	-	-	T4
STExCP8-BG-S	-	-	-	T6
STExCP8-BG-S-L STExCP8-BG-S-C	-	-	T6	T5
STExCP8-BG-D	-	T6	-	T5
STExCP8-BG-D-L STExCP8-BG-D-L	T6	-	T5	T4
STExCP8-BG-I	-	-	-	T6
STExCP8-BG-IR	-	-	-	T4

Electrical data

For Ex db models:

Note: The DC models are limited to maximum 6.224W controlled by the allowable component configuration.
The AC models are limited to 5W by design.

250Vac max / 5.0A max (for units without any series resistor or end of line devices only)
48Vdc max / 1.0A max
24Vdc max / 3.0A max

For Ex ia intrinsic safety models:

Ui	=	30V
Ii	=	500mA
Pi	=	1100mW
Ci	=	0
Li	=	0

Routine tests

Routine tests according to EN 60079-1:2014 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

This certificate may only be reproduced in its entirety and without any change.

[13] **Schedule**

[14] **EU-TYPE EXAMINATION CERTIFICATE No.**
DEMKO 15 ATEX 1589X Rev. 4

[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17] Specific conditions of use:

For Ex db models:
- Special precautions are necessary to reduce the risk due to electro-static discharge in fixed installations. Refer to the installation/operation instructions.
- No repair to the flameproof joints is permitted.

For Ex ia Intrinsically Safe models:
- The equipment does not provide 500V isolation between the intrinsically safe circuit and parts which may be earthed. This shall be considered in the end-use application to ensure the possibility of an earth connection will not compromise intrinsic safety. Refer to EN/IEC 60079-14.
- Special precautions are necessary to reduce the risk due to electro-static discharge in fixed installations. Refer to the installation/operation instructions.

[18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark e2S warning signals will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

This certificate may only be reproduced in its entirety and without any change.

EU-Konformitätserklärung
EU Declaration of Conformity
Déclaration de Conformité UE

R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany
erklärt in alleiniger Verantwortung / *declares in its sole responsibility / déclare sous sa seule responsabilité,*

dass das Produkt: *that the product:* *que le produit:*	**Befehls- und Meldegeräte** *Control station* *Appareil de commande*
Typ(en), *type(s), type(s):*	**8040/*****

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt.
is in conformity with the requirements of the following directives and standards.
est conforme aux exigences des directives et des normes suivantes.

Richtlinie(n) / *Directive(s) / Directive(s)*	**Norm(en)** / *Standard(s) / Norme(s)*
2014/34/EU **ATEX-Richtlinie** *2014/34/EU* *ATEX Directive* *2014/34/UE* *Directive ATEX* (OJ L 96, 29/03/2014, p. 309–356)	EN IEC 60079-0:2018; EN 60079-1:2014; EN IEC 60079-7: 2015 / A1:2018; EN 60079-11:2012; EN 60079-18:2015 / A1:2017; EN 60079-31:2014
Kennzeichnung, *marking, marquage:*	**Ex II 2 G Ex db eb ia ib mb IIA, IIB, IIC T6, T5 Gb** **II 2 D Ex tb IIIC T80 °C, T95 °C Db** **CE 0158**
EU-Baumusterprüfbescheinigung: *EU Type Examination Certificate:* *Attestation d'examen UE de type:*	**PTB 01 ATEX 1105** (Physikalisch-Technische Bundesanstalt, Bundesallee 100, 38116 Braunschweig, Germany, NB0102)
Produktnormen nach Anhang II ATEX (aus Niederspannungsrichtlinie): *Product standards according to Low Voltage Directive:* *Normes des produit pour la Directive Basse Tension:*	EN 60947-1:2007 / A1:2011 / A2:2014 EN 60947-5-1:2017 + AC:2020 EN 60947-5-5:1997 / A1:2005 / A11:2013 / A2:2017
2006/42/EG **Maschinen-Richtlinie** *2006/42/EC* *Machinery Directive* *2006/42/CE* *Directive Machines* (OJ L 157, 09.06.2006, p.24-86)	EN ISO 13850:2015
2014/30/EU **EMV-Richtlinie** *2014/30/EU* *EMC Directive* *2014/30/UE* *Directive CEM* (OJ L 96, 29/03/2014, p. 79–106)	EN 60947-1:2007 / A1:2011 / A2:2014 EN 60947-5-1:2017 + AC:2020 EN 60947-5-5:1997 / A1:2005 / A11:2013 / A2:2017
2011/65/EU & (EU) 2015/863 RoHS-Richtlinien *2011/65/EU & (EU) 2015/863 RoHS Directives* *2011/65/UE & (UE) 2015/863 Directives RoHS* (OJ L 174, 1/07/2011, p. 88–110 & OJ L 137, 04/06/2015, p. 10-12)	EN IEC 63000:2018

Unterzeichnet für und im Namen von: / *signed for and on behalf of: / signé pour et au nom de:*

R. STAHL Schaltgeräte GmbH

Waldenburg, 2024-09-13

Ort und Datum
Place and date
Lieu et date

Holger Semrau
Leiter Entwicklung Schaltgeräte
Director R&D Switchgear
Directeur R&D Appareillage

Daniel Groth
Leiter Qualitätsmanagement Systeme
Director Quality Management Systems
Directeur Systèmes de Management de la Qualité

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) EU-Baumusterprüfbescheinigung

(2) Geräte oder Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 2014/34/EU**

(3) EU-Baumusterprüfbescheinigungsnummer

PTB 01 ATEX 1105 **Ausgabe: 2**

(4) Produkt: Befehls- und Meldegerät Typ 8040/*****_** *** * ***_** *** * ***_** *** * *** und 8040/**-V30-***-*

(5) Hersteller: R. STAHL Schaltgeräte GmbH

(6) Anschrift: Am Bahnhof 30, 74638 Waldenburg, Deutschland

(7) Die Bauart dieses Produkts sowie die verschiedenen zulässigen Ausführungen sind in der Anlage und den darin aufgeführten Unterlagen zu dieser Baumusterprüfbescheinigung festgelegt.

(8) Die Physikalisch-Technische Bundesanstalt, notifizierte Stelle Nr. 0102 gemäß Artikel 17 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014, bescheinigt, dass dieses Produkt die grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Produkten zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie erfüllt.

Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht PTB Ex 21-11127 festgehalten.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-18:2015+A1:2017, EN 60079-31:2014

(10) Falls das Zeichen „X" hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Produkts in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese EU-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Produkts gemäß Richtlinie 2014/34/EU. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Bereitstellen auf dem Markt. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.

(12) Die Kennzeichnung des Produkts muss die folgenden Angaben enthalten:

II 2 G Ex db eb ia ib mb IIA, IIB, IIC T6, T5 Gb

II 2 D Ex tb IIIC T80 °C, T95 °C Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, 5. Oktober 2021
Im Auftrag

Dr.-Ing. D. Markus
Direktor und Professor

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EU-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
Diese EU-Baumusterprüfbescheinigung darf nur unverändert weiterverbreitet werden.
Auszüge oder Änderungen bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt.

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(13) # Anlage

(14) **EU-Baumusterprüfbescheinigung PTB 01 ATEX 1105, Ausgabe: 2**

(15) Beschreibung des Produkts

Das Befehls- und Meldegerät Typ 8040 besteht aus einem oder mehreren Gehäusen aus Kunststoff in der Zündschutzart Erhöhte Sicherheit "e". Er kann mit Flanschen ausgestattet werden.

Die Gehäuse können mit Befehls- und Anzeigekomponenten sowie mit Klemmen für eigensichere und nichteigensichere Stromkreise bestückt werden. Der Kastenbereich für eigen-sichere Stromkreise ist gekennzeichnet, z.B. mit hellblauer Farbe.

Der Anschluss erfolgt über Ex-Kabel- und Leitungseinführungen.

Alle ein- und angebauten Bauteile sind nach gesonderter Prüfbescheinigung geprüft und bescheinigt.

Typschlüssel

Allgemeiner Typschlüssel

8040	/	*	*	*	*	*	-	**	**	*	**	-	**	**	*	**	-	**	**	*	**
a	/	b	c	d	e	f		g													

a	Typenreihe		
b	Gehäusehöhe	1	= 72 mm (niedriger Deckel)
		2	= 97 mm (hoher Deckel)
		3	= Kombination von Höhe 1 und 2
c	Gehäuse Größe	1	= 1-Weg
		2	= 2-Wege
		3	= 3-Wege
		4	= Kombination der Größen
d	KLE 8161/7-.LT	1	= ohne
		2	= (n/n)
		3	= M20x1.5 (Seite C: 1x und Seite D: 1x)
		4	= M25x1.5 (Seite C: 1x und Seite D: 1x)
		5	= (n/n)
		6	= M20x1.5 (Seite D: 2x – nur mit Flansch)
		7	= M20x1.5 (Seite D: 1x)
		8	= M25x1.5 (Seite D: 1x)
		9	= alle anderen (gemäß Kundenauftrag)
e	Flansch	0	= ohne Flansch
		1	= Geschäumter Flansch (Seite D)
		2	= Metall Flansch (Side D)
		3	= Geschäumter Flansch (Seite C)

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4	= Metall Flansch (Seite C)
5	= Geschäumter Flansch (Seite C und D)
6	= Metall Flansch (Seite C und D)
7	= Metall Platte (Seite C: mit PE Anschluss innen)
8	= Metall Platte (Seite D: mit PE Anschluss innen)
9	= Metall Platte (Seite C und D: mit PE Anschluss innen)

f Zusätzliche Information
X = ohne (wie im Typschlüssel)
Z = mit Information (wie im Kundenauftrag dokumentiert)

g Weitere Informationen zu den Einbaukomponenten und Betätigter (nicht Ex relevant).

Komponentenliste siehe 8040 0 000 030 0.

Information zu Ziffer "4) ... 7)", wie im allgemeinen Typschlüssel beschrieben, wird in den Produktionsdokumenten beschrieben. Die Produktionsdokumentation ist über die Seriennummer und den Barcode auf dem Typschild nachzuvollziehen.

Serien-Typschlüssel

8040	/	*	*	-	V30	-	* * *	-	*
a	/	b	c	-	d	-	e	-	f

a	Typenreihen		
b	Gehäusehöhe	1	= 72 mm (niedriger Deckel)
		2	= 97 mm (hoher Deckel)
c	Gehäusegröße	1	= 1-Weg
		2	= 2-Weg
		3	= 3-Weg
d	Gehäusetyp	V30	= Installationsschalter
e	Montageplan	033	= 2-poliger Ein/Aus-Schalter
		035	= Umschalter

f Weitere Informationen zu den Einbaukomponenten und Betätigter (nicht Ex relevant).

Technische Daten

Abmessungen des Gehäuses:

Typ	Länge [mm]	Breite [mm]	Tiefe [mm]
8040/11	93	80	72
8040/12	139	80	72
8040/13	185	80	72
8040/22	139	80	95
8040/23	185	80	95

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Anlage zur EU-Baumusterprüfbescheinigung PTB 01 ATEX 1105, Ausgabe: 2

Elektrische Daten

Bemessungsspannung*:	Max. 690 V
Bemessungsstrom*:	Max. 6 A...16 A
Leistungsaufnahme für Meldeleuchten:	Max. 1.5 W
Bemessungsquerschnitt Einbauelemente:	Max. 6 mm²
Bemessungsquerschnitt Reihen- / Verbindungsklemmen:	Max. 4 mm²

*) je nach Klemmentyp und verwendeten Ex-Komponenten

Umgebungstemperaturbereich

-60 °C bis +74 °C

Temperaturklasse nach der max. Umgebungstemperatur

Typ 8040/11

Maximale installierte Konfiguration						
Strom [A]	8082-8082-8082		8082-8010-8082		8008 (2-pole)	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	73 °C	73 °C	62 °C	71 °C	-	-
4	72 °C	72 °C	60 °C	71 °C	74 °C	74 °C
6	68 °C	71 °C	59 °C	70 °C	-	-
10	-	-	-	-	70 °C	71 °C
16					55 °C	60 °C

Typ 8040/12

Maximale installierte Konfiguration										
Strom [A]	8082-8082-8082 8082-8082-8082		8082-8010-8082 8082-8010-8082		8008 (2-pole)		8405/6		8082-8082-8082-8082	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	74 °C	74 °C	61 °C	70 °C	-	-	-	-	73 °C	73 °C
4	71 °C	71 °C	58 °C	70 °C	74 °C	74 °C	74 °C	74 °C	71 °C	71 °C
6	64 °C	68 °C	56 °C	66 °C	-	-	-	-	65 °C	69 °C
10	-	-	-	-	70 °C	71 °C	73 °C	73 °C	-	-
15	-	-	-	-	-	-	64 °C	68 °C	-	-
16					59 °C	62 °C				

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Anlage zur EU-Baumusterprüfbescheinigung PTB 01 ATEX 1105, Ausgabe: 2

Typ 8040/13

Maximale installierte Konfiguration						
Strom [A]	8082-8082-8082 8082-8082-8082 8082-8082-8082		8082-8010-8082 8082-8010-8082 8082-8010-8082		8082-8082-8082-8082 80828082-8082-8082	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	74 °C	74 °C	60 °C	69 °C	74 °C	74 °C
4	70 °C	70 °C	57 °C	67 °C	71 °C	71 °C
6	61 °C	65 °C	54 °C	63 °C	64 °C	66 °C

Maximale installierte Konfiguration				
Strom [A]	8082-8010-8082 8008 (2-pole)		8405/6 8008 (2-pole)	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2 / 4	62 °C	72 °C	-	-
4 / 10	54 °C	62 °C	-	-
6 / 16	44 °C	45 °C		
4 / 4	-	-	74 °C	74 °C
10 / 10	-	-	68 °C	70 °C
15 / 15	-	-	52 °C	57 °C

Typ 8040/23

Maximale installierte Konfiguration		
Strom [A]	8405/6 8008 (3-pole+Aux)	
	T6 / T80 °C	T5 / T95 °C
4 / 4	74 °C	74 °C
10 / 10	65 °C	67 °C
15 / 16	41 °C	48 °C

Hinweis: Nennstrom des Hilfskontakts ist ≤ 1 A.

Für weitere Informationen siehe Testprotokoll 11568.

Schutz durch Gehäuse nach IEC EN 60079-0, EN 60079-7 und EN 60079-31:
IP66 ohne Flansch
IP65 mit Flansch
IP64 für Gehäusekombination mit Silikon-Dichtung D0130-01 oder D0308-00

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Die Bemessungswerte sind Höchstwerte, die tatsächlichen elektrischen Werte werden von den eingebauten elektrischen Betriebsmitteln bestimmt. Der Hersteller legt im Rahmen dieser Grenzwerte bei Einhaltung der zutreffenden Normen und abhängig von Netzbedingungen, Betriebsart, Gebrauchskategorie usw. die endgültigen Bemessungswerte fest. Die Kennwerte der eigensicheren Stromkreise werden vom Hersteller in eigener Verantwortung festgelegt.

Der maximal zulässige Bereich der Umgebungstemperatur des Klemmenkastens kann durch die maximal zulässige Betriebstemperatur der getrennt bescheinigten Komponenten eingeschränkt werden.

Die Zusammensetzung des Zündschutzart-Kennzeichnung richtet sich nach den Zündschutzarten der jeweils verwendeten Komponenten.

Die Anordnung der Ex-Kennzeichnung richtet sich nach dem Schutzgrad der verwendeten Komponenten.

Änderungen

1) Normen-Update auf den neuesten ATEX Normenstand
2) Kombination von Gehäusen möglich
3) Wandstärke angepasst

(16) Prüfbericht PTB Ex 21-11127

(17) Besondere Bedingungen

Keine

Hinweise für die Herstellung und Betrieb

Für den Ein- und Anbau von Komponenten sind nur solche zugelassen, die auf dem Deckblatt angegebenen Normenstand technischen entsprechen, für die Einsatzbedingungen geeignet sind und eine gesonderte Bescheinigung besitzen. Die besonderen Bedingungen der Komponenten sind zu beachten und die Komponenten sind ggf. mit in die Typprüfung einzubeziehen. Dies gilt auch für die bereits in der technischen Beschreibung genannten Komponenten.

Um den IP-Schutzgrad zu gewährleisten, müssen der Deckel des Leergehäuses, das Flanschgehäuse, der Dichtungsrahmen und andere Ex-Komponenten ordnungsgemäß installiert und mit dem entsprechenden Drehmoment montiert werden.
Die Befestigungskraft der Verbindungstück zwischen zwei Gehäuse ist ordnungsgemäß mit dem richtigen Drehmoment zu befestigt und darf nicht von anderen Kräften (z.B. die Wandmontage) beeinfluss werden.

Der Einbau der Betriebsmittel in der Zündschutzart Eigensicherheit "i" muss so erfolgen, dass die nach EN 60079-11 geforderten Abstände sowie die Luft- und Kriechstrecken zwischen eigensicheren und nichteigensicheren Stromkreisen eingehalten sind.

Bei Verwendung von mehr als einem eigensicheren Stromkreis sind die Regeln der Zusammenschaltung zu beachten.

Wenn Komponenten in das Leergehäuse eingebaut werden, müssen die Luft- und Kriechstrecken nach der Norm EN 60079-7 und EN 60079-11 eingehalten werden.

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Das Gehäuse mit einer Beschichtung aus Polyester-Pulverlack darf nicht in Bereichen eingesetzt werden, in denen stark ladungserzeugende Prozesse, maschinelle Reib- und Trennprozesse, das Sprühen von Elektronen (z.B. im Umfeld von elektrostatischen Lackiereinrichtungen) stattfinden sowie pneumatisch geförderter Staub austritt.

(18) Grundlegende Sicherheits- und Gesundheitsanforderungen

Erfüllt durch Übereinstimmung mit den vorgenannten Normen.

Konformitätsbewertungsstelle, Sektor Explosionsschutz — Braunschweig, 5. Oktober 2021
Im Auftrag

Dr.-Ing. D. Markus
Direktor und Professor

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Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) EU-TYPE EXAMINATION CERTIFICATE

(Translation)

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 01 ATEX 1105 **Issue: 2**

(4) Product: Control and Signal Device type 8040/*****-** *** * ***-** *** * ***-** *** * *** and 8040/**-V30-***-*

(5) Manufacturer: R. STAHL Schaltgeräte GmbH

(6) Address: Am Bahnhof 30, 74638 Waldenburg, Germany

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 21-11127.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-18:2015+A1:2017, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

II 2 G Ex db eb ia ib mb IIA, IIB, IIC T6, T5 Gb

II 2 D Ex tb IIIC T80 °C, T95 °C Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, October 5, 2021
On behalf of PTB:

Dr.-Ing. D. Markus
Direktor und Professor

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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
In case of dispute, the German text shall prevail.

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(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 01 ATEX 1105, Issue: 2**

(15) Description of Product

The Control and Signal Device, type 8040, consists of one or several plastic enclosures designed to type of protection Increased Safety "e". It can be equipped with flanges.

The enclosures can accommodate control and indicator components as well as terminals for intrinsically safe and non-intrinsically safe circuits. The area designated for intrinsically safe circuits will be marked, e.g. by means of light-blue colour.

Connection is by means of Ex-type cable glands.

All the installed and attached elements will be tested and certified under separate examination certificates.

Nomenclature

General Type Code

8040	/	*	*	*	*	*	-	* *	* *	*	* *	-	* *	* *	*	* *	-	* *	* *	*	* *
a	/	b	c	d	e	f		g													

a Type series

b Enclosure height
- 1 = 72 mm (low cover)
- 2 = 97 mm (high cover)
- 3 = combination of height 1 and 2

c Enclosure size
- 1 = 1-way
- 2 = 2-way
- 3 = 3-way
- 4 = combination of sizes

d Cable gland 8161/7-.LT
- 1 = without
- 2 = (n/n)
- 3 = M20x1.5 (Side C: 1x and Side D: 1x)
- 4 = M25x1.5 (Side C: 1x and Side D: 1x)
- 5 = (n/n)
- 6 = M20x1.5 (Side D: 2x – with flange, only)
- 7 = M20x1.5 (Side D: 1x)
- 8 = M25x1.5 (Side D: 1x)
- 9 = all other (according to customer order)

e Flange
- 0 = without flange
- 1 = Moulded flange (Side D)
- 2 = Metal flange (Side D)
- 3 = Moulded flange (Side C)
- 4 = Metal flange (Side C)

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5 = Moulded flange (Side C and D)
6 = Metal flange (Side C and D)
7 = Metal plate (Side C: with PE connection inside)
8 = Metal plate (Side D: with PE connection inside)
9 = Metal plate (Side C and D: with PE connection inside)

f Additional information X = without (according to type code)
Z = with information (according to customer order)

g Further information of built in components and actuators (not ex-relevant).

For list of components see 8040 0 000 030 0.

Information for items "4) ... 7)", as defined in the general type code, is documented in the product documentation. The product documentation is available via the serial number and the barcode on the name-plate.

Series Type Code

8040	/	*	*	-	V30	-	* * *	-	*
a	/	b	c	-	d	-	e	-	f

a Type series

b Enclosure height
1 = 72 mm (low cover)
2 = 97 mm (high cover)

c Enclosure size
1 = 1-way
2 = 2-way
3 = 3-way

d Design
V30 = Installation switch

e Assembly plan
033 = 2-pole on/off switch
035 = change over switch

f Further information of built-in components and actuators (not ex-relevant).

Technical data

Dimensions of the enclosures:

Type	Length [mm]	Width [mm]	Depth [mm]
8040/11	93	80	72
8040/12	139	80	72
8040/13	185	80	72
8040/22	139	80	95
8040/23	185	80	95

EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 01 ATEX 1105, Issue: 2

Electrical data

Rated voltage*:	Max. 690 V
Rated current*:	Max. 6 A...16 A
Power input for indicator lights:	Max. 1.5 W
Rated cross section, installations:	Max. 6 mm²
Rated cross section, terminal block / connection terminals:	Max. 4 mm²

* depending on type of terminal and Ex components used.

Ambient temperature range

-60 °C to +74 °C

Temperature class acc. to the max. ambient temperature

Type 8040/11

Maximum installed configuration						
Current [A]	8082-8082-8082		8082-8010-8082		8008 (2-pole)	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	73 °C	73 °C	62 °C	71 °C	-	-
4	72 °C	72 °C	60 °C	71 °C	74 °C	74 °C
6	68 °C	71 °C	59 °C	70 °C	-	-
10	-	-	-	-	70 °C	71 °C
16					55 °C	60 °C

Type 8040/12

Maximum installed configuration										
Current [A]	8082-8082-8082 8082-8082-8082		8082-8010-8082 8082-8010-8082		8008 (2-pole)		8405/6		8082-8082-8082-8082	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	74 °C	74 °C	61 °C	70 °C	-	-	-	-	73 °C	73 °C
4	71 °C	71 °C	58 °C	70 °C	74 °C	74 °C	74 °C	74 °C	71 °C	71 °C
6	64 °C	68 °C	56 °C	66 °C	-	-	-	-	65 °C	69 °C
10	-	-	-	-	70 °C	71 °C	73 °C	73 °C	-	-
15	-	-	-	-	-	-	64 °C	68 °C	-	-
16					59 °C	62 °C				

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 01 ATEX 1105, Issue: 2

Type 8040/13

Maximum installed configuration						
Current [A]	8082-8082-8082 8082-8082-8082 8082-8082-8082		8082-8010-8082 8082-8010-8082 8082-8010-8082		8082-8082-8082-8082 80828082-8082-8082	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	74 °C	74 °C	60 °C	69 °C	74 °C	74 °C
4	70 °C	70 °C	57 °C	67 °C	71 °C	71 °C
6	61 °C	65 °C	54 °C	63 °C	64 °C	66 °C

Maximum installed configuration				
Current [A]	8082-8010-8082 8008 (2-pole)		8405/6 8008 (2-pole)	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2 / 4	62 °C	72 °C	-	-
4 / 10	54 °C	62 °C	-	-
6 / 16	44 °C	45 °C		
4 / 4	-	-	74 °C	74 °C
10 / 10	-	-	68 °C	70 °C
15 / 15	-	-	52 °C	57 °C

Type 8040/23

Maximum installed configuration		
Current [A]	8405/6 8008 (3-pole+Aux)	
	T6 / T80 °C	T5 / T95 °C
4 / 4	74 °C	74 °C
10 / 10	65 °C	67 °C
15 / 16	41 °C	48 °C

Note: Rated current of auxiliary contact is ≤ 1 A.

For further information see test protocol 11568.

Ingress protection according to EN IEC 60079-0, EN 60079-7 and EN 60079-31:
without flanges IP66
with flanges IP65
for enclosure combination IP64 with silicon gasket D0130-01 or D0308-00

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The rated values are maximum values, the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

The maximum permissible ambient temperature range of the terminal enclosure can be limited by the maximum permissible service temperature ranges of the separately certified components.

The composition of the type of protection marking will be based on the types of protection of components actually used.

The arrangement of the Ex marking will be based on the level of protection of components used.

Changes

1) Standard update to latest ATEX standards
2) Combination of enclosures possible
3) Wall thickness adjusted

(16) Test Report PTB Ex 21-11127

(17) Specific conditions of use

None

Notes for manufacturing and operation

Components attached or installed have to be of a technical standard that complies with the specifications on the cover sheet. They must be suited for the operating conditions and have a separate examination certificate. The special conditions specified for the components must be complied with and may have to be included in the type test. This also applies to components already specified in the technical description.

In order to ensure the ingress protection IP, the cover of the empty enclosure, the flange enclosure, the sealing frame and other Ex-components must be properly installed and with the appropriate torque. The fastening force of the connecting piece between two enclosures must be properly fastened with the correct torque and must not be influenced by other forces (e.g. wall mounting).

Equipment of the type of protection intrinsic safety "i" is to be installed in such a way that the distances, creepage distances and clearances between intrinsically safe circuits and non-intrinsically safe circuits comply with the requirements of EN 60079-11.

When more than one intrinsically safe circuit is used, the rules for interconnection are to be observed.

When components are installed into the empty enclosure, clearance and creepage distances specified in the standard EN 60079-7 and EN 60079-11 shall duly be complied with.

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 01 ATEX 1105, Issue: 2

The enclosure with a coating of polyester powder must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Dr.-Ing. D. Markus
Direktor und Professor

Braunschweig, October 5, 2021

EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
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EU Konformitätserklärung
EU Declaration of Conformity
EU-Izjava o sukladnosti

R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany
erklärt in alleiniger Verantwortung, *declares in its sole responsibility, izjavljuje u isključivoj odgovornosti,*

dass das Produkt: *that the product:* *da je proizvod:*	**Klemmenkästen** *Terminal Boxes* *Razvodna kutija*
Typ(en), *type(s), tip(ovi):*	**8146/1** **8146/2**

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt.
is in conformity with the requirements of the following directives and standards.
u skladu sa sljedećim direktivama i normama.

Richtlinie(n) / *Directive(s) / Direktiva(e)*	Norm(en) / *Standard(s) / Norma(e)*
2014/34/EU **ATEX-Richtlinie** *2014/34/EU* *ATEX Directive* *2014/34/UE* *Direktiva ATEX*	EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015 + A1:2018 EN 60079-11:2012 EN 60079-18:2015 + A1:2017 + AC:2018 EN 60079-28:2015 EN 60079-31:2014
Kennzeichnung, *marking, Oznaka:*	**II 2 G Ex db eb ia mb op pr IIC T6...T4 Gb** **II 2 G Ex ia IIC T6...T4 Gb** **CE 0158** **II 2 D Ex tb IIIC T80 °C...T130 °C Db**
EU Baumusterprüfbescheinigung: *EU Type Examination Certificate:* *EU Potvrda o ispitivanju tipa:*	**PTB 01 ATEX 1016** (Physikalisch-Technische Bundesanstalt, Bundesallee 100, 38116 Braunschweig, Njemačka, NB0102)
Produktnormen nach Niederspannungsrichtlinie: *Product standards according to Low Voltage Directive:* *Standardi proizvoda prema Direktivi o niskom naponu:*	EN 61439-1:2011 EN 61439-2:2011
2014/30/EU **EMV-Richtlinie** *2014/30/EU* *EMC Directive* *2014/30/EU* *Direktiva o elektromagnetsko kompatibilnosti*	Nicht zutreffend nach Artikel 2, Absatz (2) d). *Not applicable according to article 2, paragraph (2) d).* Nije primjenjivo prema članku 2. stavak (2) d).
2011/65/EU **RoHS-Richtlinie** *2011/65/EU* *RoHS Directive* *2011/65/EU* *Direktiva RoHS*	EN IEC 63000:2018

Waldenburg, 2022-06-07

Ort und Datum
Place and date
Mjesto i datum

i.V.

Holger Semrau
Leiter Entwicklung Schaltgeräte
Director R&D Switchgear
Voditelj za razvoj sklopnih uređaja

i.V.

Jürgen Freimüller
Leiter Qualitätsmanagement
Director Quality Management
Voditelj upravljanja kvalitetom

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) # EU-Baumusterprüfbescheinigung

(2) Geräte oder Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 2014/34/EU**

(3) EU-Baumusterprüfbescheinigungsnummer

PTB 01 ATEX 1016 **Ausgabe: 1**

(4) Produkt: Klemmenkasten Typ 8146/1***-* und 8146/2***-*

(5) Hersteller: R. STAHL Schaltgeräte GmbH

(6) Anschrift: Am Bahnhof 30, 74638 Waldenburg (Württ.), Deutschland

(7) Die Bauart dieses Produkts sowie die verschiedenen zulässigen Ausführungen sind in der Anlage und den darin aufgeführten Unterlagen zu dieser Baumusterprüfbescheinigung festgelegt.

(8) Die Physikalisch-Technische Bundesanstalt, notifizierte Stelle Nr. 0102 gemäß Artikel 17 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014, bescheinigt, dass dieses Produkt die grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Produkten zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie erfüllt.

Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht PTB Ex 21-10099 festgehalten.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit
EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-18:2015+A1:2017, EN 60079-28:2015, EN 60079-31:2014

(10) Falls das Zeichen „X" hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Produkts in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese EU-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Produkts gemäß Richtlinie 2014/34/EU. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Bereitstellen auf dem Markt. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.

(12) Die Kennzeichnung des Produkts muss die folgenden Angaben enthalten:

II 2 G Ex db eb ia mb op pr IIA, IIB, IIC T6, T5, T4 Gb

II 2 D Ex tb IIIC T80 °C, T95 °C, T130 °C Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz
Im Auftrag

Braunschweig, 22. März 2021

Dr.-Ing. D. Markus
Direktor und Professor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT

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EU-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
Diese EU-Baumusterprüfbescheinigung darf nur unverändert weiterverbreitet werden.
Auszüge oder Änderungen bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt.

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(13) # Anlage

(14) **EU-Baumusterprüfbescheinigung PTB 01 ATEX 1016 , Ausgabe: 1**

(15) Beschreibung des Produkts

Der Klemmenkasten Typ 8146/1***-* und 8146/2***-* besteht aus einem Gehäuse aus Polyesterharz in der Zündschutzart Erhöhte Sicherheit "eb" und Schutz durch Gehäuse „tb", das mit Ex-Typ zertifizierten Flanschen ausgestattet werden kann.

Es können mehrere Klemmenkästen miteinander kombiniert werden. Der Anschluss erfolgt über Ex-Kabel- und Leitungseinführungen.

Der Klemmenkasten ist mit Klemmen für Stromkreise in der Zündschutzart Erhöhte Sicherheit "eb" oder Eigensicherheit "ia" oder Kombinationen aus beiden ausgestattet. Er kann optional mit Trennklemmen und Sicherungen ausgestattet sein. Die Komponenten für eigensichere Stromkreise sind gekennzeichnet, z. B. in hellblau.

Es können auch Bolzenklemmen mit Anschluss an Sammelschienen installiert werden.

Das Gehäuse sowie alle ein- und angebauten Komponenten sind nach ATEX-Prüfbescheinigung geprüft und bescheinigt.

Änderungen

1) Zusätzliche Ex-Komponenten zur Komponentenliste hinzugefügt
2) Normen-Update auf den neuesten ATEX Normenstand
3) Neue Zertifizierungsbetriebsanleitung

Typschlüssel

8146	/	*	*	*	*	-	*
a	/	b	c		d	-	e

a Typenreihen

b Gehäusetyp:
- 1 – Klemmenkasten Ex e (oder kombiniert Ex e und Ex i)
- 2 – Klemmenkasten Ex i

c Gehäuselänge x Breite [mm]:
- 00 – Kombination
- 03 – 112,5 x 112,5
- 04 – 170,0 x 112,5
- 24 – 227,0 x 112,5
- 05 – 170,0 x 170,0

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06 – 227,0 x 170,0
07 – 340,5 x 170,0
B7 – 340,5 x 170,0
S7 – 340,5 x 170,0
08 – 340,5 x 340,5
09 – 681,5 x 340,5

d Gehäusehöhe [mm]:
0 – Kombination
1 – 91 (Gehäusehöhe 76 mm, Deckelhöhe 15 mm)
2 – 131 (Gehäusehöhe 76 mm, Deckelhöhe 55 mm)
3 – 150 (Gehäusehöhe 135 mm, Deckelhöhe 15 mm)
4 – 171 (Gehäusehöhe 76 mm, Deckelhöhe 95 mm)
5 – 190 (Gehäusehöhe 135 mm, Deckelhöhe 55 mm)
6 – 230 (Gehäusehöhe 135 mm, Deckelhöhe 95 mm)
7 – 104 (Gehäusehöhe 76 mm, Deckelhöhe 28 mm)

e Weitere Informationen ohne Relevanz für den Explosionsschutz

Elektrische Daten

Rated voltage*	Max 1100 V AC/DC
	Max. 750 V with bolt-type screw terminals
Rated current*	Max. 500 A
	Max. 315 A for T6 with bolt-type screw terminals
	Max. 400 A for T5 with bolt-type screw terminals
Rated cross section (conductor)*	Max. 300 mm²
	Max. 185 mm² with bolt-type screw terminals and connection with cable lugs
*) depending on terminal type and Ex components used	

Umgebungstemperaturbereich

Umgebungstemperaturbereich abhängig von der verwendeten Dichtung:

Dichtung 1 (D0075)	-60 °C bis +100 °C
Dichtung 2 (D0121)	-20 °C bis +60 °C

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Schutz durch Gehäuse nach IEC EN 60079-0, EN 60079-7 und EN 60079-31:
abhängig von den verbauten Ex-Komponenten oder Ex Geräten

Die Bemessungswerte sind Höchstwerte, die tatsächlichen elektrischen Werte werden von den eingebauten elektrischen Betriebsmitteln bestimmt. Der Hersteller legt im Rahmen dieser Grenzwerte bei Einhaltung der zutreffenden Normen und abhängig von Netzbedingungen, Betriebsart, Gebrauchskategorie usw. die endgültigen Bemessungswerte fest. Die Kennwerte der eigensicheren Stromkreise werden vom Hersteller in eigener Verantwortung festgelegt.

Der maximal zulässige Bereich der Umgebungstemperatur des Klemmenkastens kann durch die maximal zulässige Betriebstemperatur der getrennt bescheinigten Komponenten eingeschränkt werden.

Die Zusammensetzung des Zündschutzart-Kennzeichnung richtet sich nach den Zündschutzarten der jeweils verwendeten Komponenten.

(16) Prüfbericht PTB Ex 21-10099

(17) Besondere Bedingungen

Keine.

(18) Grundlegende Sicherheits- und Gesundheitsanforderungen

Erfüllt durch Übereinstimmung mit den vorgenannten Normen.

Nach Artikel 41 der Richtlinie 2014/34/EU dürfen EG-Baumusterprüfbescheinigungen nach Richtlinie 94/9/EG, die bereits vor dem Datum der Anwendung von Richtlinie 2014/34/EU (20. April 2016) bestanden, so betrachtet werden, als wenn sie bereits in Übereinstimmung mit der Richtlinie 2014/34/EU ausgestellt wurden. Mit Genehmigung der Europäischen Kommission dürfen Ergänzungen zu solchen EG-Baumusterprüfbescheinigungen und neue Ausgaben solcher Zertifikate weiterhin die vor dem 20. April 2016 ausgestellte originale Zertifikatsnummer tragen.

Konformitätsbewertungsstelle, Sektor Explosionsschutz — Braunschweig, 22. März 2021
Im Auftrag

Dr.-Ing. D. Markus
Direktor und Professor

EU-Baumusterprüfbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
Diese EU-Baumusterprüfbescheinigung darf nur unverändert weiterverbreitet werden.
Auszüge oder Änderungen bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt.

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Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) # EU-TYPE EXAMINATION CERTIFICATE

(Translation)

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 01 ATEX 1016 **Issue: 1**

(4) Product: Terminal box type 8146/1***-* und 8146/2***-*

(5) Manufacturer: R. STAHL Schaltgeräte GmbH

(6) Address: Am Bahnhof 30, 74638 Waldenburg (Württ.), Germany

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 21-10099.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-18:2015+A1:2017, EN 60079-28:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

II 2 G Ex db eb ia mb op pr IIA, IIB, IIC T6, T5, T4 Gb

II 2 D Ex tb IIIC T80 °C, T95 °C, T130 °C Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, March 22, 2021
On behalf of PTB:

Dr.-Ing. D. Markus
Direktor und Professor

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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
In case of dispute, the German text shall prevail.

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(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 01 ATEX 1016 , Issue: 1**

(15) Description of Product

The Terminal Box type 8146/1***-* and 8146/2***-* consists of enclosures out of polyester resin in the type of protection Increased Safety "eb" and Protection by Enclosure “tb”, which may be provided with Ex-type certified flanges. Several boxes can be combined with each other. The connection is made by Ex-cable entries.

The Terminal Box is equipped with terminals for circuits in the type of protection Increased Safety "eb" or Intrinsic Safety "ia" or combinations of both. It may optionally be provided with isolating terminals and fuses. The components for intrinsically safe circuits are marked, e.g. in light blue.

Stud terminals connected to busbars can also be installed.

The empty enclosures as well as all mounted and attached components have been tested and certified under an ATEX examination certificate.

Changes

1) Additional Ex components added to list of components
2) Standard update to latest ATEX standards
3) New Certification Instruction

Nomenclature

8146	/	*	*	*	*	-	*
a	/	b	c		d	-	e

a Type series

b Design:
- 1 – Terminal Box Ex e (or combined Ex e and Ex i)
- 2 – Terminal Box Ex i

c Enclosure length x width [mm]:
- 00 – Combination
- 03 – 112.5 x 112.5
- 04 – 170.0 x 112.5
- 24 – 227.0 x 112.5
- 05 – 170.0 x 170.0
- 06 – 227.0 x 170.0
- 07 – 340.5 x 170.0
- B7 – 340.5 x 170.0

EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
In case of dispute, the German text shall prevail.

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 01 ATEX 1016 , Issue: 1

S7 – 340.5 x 170.0
08 – 340.5 x 340.5
09 – 681.5 x 340.5

d Enclosure height [mm]:
0 – Combination
1 – 91 (Enclosure height 76 mm, Cover height 15 mm)
2 – 131 (Enclosure height 76 mm, Cover height 55 mm)
3 – 150 (Enclosure height 135 mm, Cover height 15 mm)
4 – 171 (Enclosure height 76 mm, Cover height 95 mm)
5 – 190 (Enclosure height 135 mm, Cover height 55 mm)
6 – 230 (Enclosure height 135 mm, Cover height 95 mm)
7 – 104 (Enclosure height 76 mm, Cover height 28 mm)

e Further information without relevance to explosion protection

Electrical data

Rated voltage*	Max 1100 V AC/DC
	Max. 750 V with bolt-type screw terminals
Rated current*	Max. 500 A
	Max. 315 A for T6 with bolt-type screw terminals
	Max. 400 A for T5 with bolt-type screw terminals
Rated cross section (conductor)*	Max. 300 mm²
	Max. 185 mm² with bolt-type screw terminals and connection with cable lugs
*) depending on terminal type and Ex components used	

Ambient temperature range

Ambient temperature range dependent on the gasket:

Gasket 1 (D0075)	-60 °C to +100 °C
Gasket 2 (D00121)	-20 °C to +60 °C

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 01 ATEX 1016 , Issue: 1

Ingress protection according to IEC 60079-0, IEC 60079-7 and IEC 60079-31:
depends on the assembled Ex components or Ex equipments

The rated values are maximum values, the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

The maximum permissible ambient temperature range of the terminal enclosure can be limited by the maximum permissible service temperature ranges of the separately certified components.

The composition of the type of protection marking will be based on the types of protection of components actually used.

(16) Test Report PTB Ex 21-10099

(17) Specific conditions of use

None.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz — Braunschweig, March 22, 2021
On behalf of PTB:

Dr.-Ing. D. Markus
Direktor und Professor

EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.
In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt • Bundesallee 100 • 38116 Braunschweig • GERMANY

EU-Konformitätserklärung
EU Declaration of Conformity
Déclaration de Conformité UE

R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany
erklärt in alleiniger Verantwortung, *declares in its sole responsibility, déclare sous sa seule responsabilité,*

dass das Produkt: *that the product:* *que le produit:*	**LED Notlichtleuchte** *LED Emergency Luminaire* *LED Luminaire de secours*
Typ(en), *type(s), type(s):*	**6409/4...**

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt.
is in conformity with the requirements of the following directives and standards.
est conforme aux exigences des directives et des normes suivantes.

Richtlinie(n) / *Directive(s) / Directive(s)*	**Norm(en)** / *Standard(s) / Norme(s)*
2014/34/EU **ATEX-Richtlinie** *2014/34/EU ATEX Directive* *2014/34/UE Directive ATEX*	EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015+A1:2018 EN 60079-18:2015+A1:2017 EN 60079-28:2015 EN 60079-31:2014
Kennzeichnung, *marking, marquage:*	**II 3 G Ex db ec IIC T4 Gc** **II 3 G Ex db ec mb IIC T4 Gc** **II 3 D Ex tc IIIC T100 °C Dc** **II 2 D Ex tb op is IIIC T100 °C Db** CE 0158
EU-Baumusterprüfbescheinigung: *EU Type Examination Certificate:* *Attestation d'examen UE de type:*	**IBExU 16 ATEX 1233** (IBExU Institut für Sicherheitstechnik GmbH Fuchsmühlenweg 7, 09599 Freiberg, Germany)
Produktnormen nach Niederspannungsrichtlinie: *Product standards according to Low Voltage Directive:* *Normes des produit pour la Directive Basse Tension:*	EN 60598-1:2015+A1:2018 EN IEC 60598-2-22:2022 EN 62471:2008
2014/30/EU **EMV-Richtlinie** *2014/30/EU EMC Directive* *2014/30/UE Directive CEM*	EN 61547:2009 EN IEC 55015:2019+A11:2020 EN 61000-3-2:2014 EN 61000-3-3:2013
2011/65/EU **RoHS-Richtlinie** *2011/65/EU RoHS Directive* *2011/65/UE Directive RoHS*	EN IEC 63000:2018

Waldenburg, 2023-03-07
Ort und Datum
Place and date
Lieu et date

i.V.
S. Holtz
Leiter Entwicklung BU Leuchten & Signalgeräte
Head of R&D BU Lighting & Signalling
Directeur du développement BU Luminaires & Dispositifs de Signalisation

i.V.
D. Groth
Leiter Qualitätsmanagementsysteme
Director Quality Management Systems
Directeur Systéme de Management de la Qualité

[1] EU-BAUMUSTERPRÜFBESCHEINIGUNG

[2] Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen, Richtlinie 2014/34/EU

[3] EU-Baumusterprüfbescheinigung Nummer **IBExU16ATEX1233** | Ausgabe 3

[4] Produkt: **LED-Notlichtleuchte**
Typ: 6409/1. und 6409/4.

[5] Hersteller: R. STAHL Schaltgeräte GmbH

[6] Anschrift: Am Bahnhof 30
74638 Waldenburg
GERMANY

[7] Dieses Produkt sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Bescheinigung sowie den darin aufgeführten Unterlagen festgelegt.

[8] IBExU Institut für Sicherheitstechnik GmbH, notifizierte Stelle mit der Nummer 0637 in Übereinstimmung mit Artikel 17 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014, bestätigt, dass dieses Produkt die wesentlichen Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Produkten zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen aus Anhang II der Richtlinie erfüllt.

Die Untersuchungs- und Prüfergebnisse werden in dem vertraulichen Prüfbericht IB-18-3-0162 festgehalten.

[9] Die Beachtung der wesentlichen Sicherheits- und Gesundheitsanforderungen wurde in Übereinstimmung mit folgenden Normen gewährleistet:
EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015 EN 60079-18:2015
EN 60079-28:2015 EN 60079-31:2014
Hiervon ausgenommen sind jene Anforderungen, die unter Punkt [18] der Anlage aufgelistet werden.

[10] Ein „X" hinter der Bescheinigungsnummer weist darauf hin, dass das Produkt den besonderen Bedingungen für die Verwendung unterliegt, die in der Anlage zu dieser Bescheinigung festgehalten sind.

[11] Diese EU-Baumusterprüfbescheinigung bezieht sich ausschließlich auf die Konzeption und den Bau des angegebenen Produkts. Für den Fertigungsprozess und die Bereitstellung dieses Produkts gelten weitere Anforderungen der Richtlinie. Diese fallen jedoch nicht in den Anwendungsbereich dieser Bescheinigung.

[12] Die Kennzeichnung des Produkts muss Folgendes beinhalten:

Ex II 3G Ex db ec IIC T4 Gc
Ex II 3G Ex db ec mb IIC T4 Gc
Ex II 3D Ex tc IIIC T100°C Dc
Ex II 2D Ex tb op is IIIC T100°C Db
$-30\ °C \leq T_a \leq +50/+55/+60\ °C$

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Im Auftrag

A. Henker

Dipl.-Ing. (FH) A. Henker

Zertifizierungsstelle Explosionsschutz IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *

- Siegel -
(notifizierte Stelle Nummer 0637)

Bescheinigungen ohne Siegel und Unterschrift haben keine Gültigkeit. Bescheinigungen dürfen nur vollständig und unverändert vervielfältigt werden.

Freiberg, 04.07.2019

[13] **Anlage**

[14] **Bescheinigung Nummer IBExU16ATEX1233** | Ausgabe 3

[15] **Beschreibung des Produkts**

Die LED-Notlichtleuchte Typ 6409/1. und 6409/4. ist eine LED-Leuchte mit Notlichtfunktion für den Einsatz in gas- und staubexplosionsgefährdeten Bereichen der Zonen 2, 21 und 22. Die Leuchte besteht aus einem Polyestergehäuse, einer Montageplatte / Reflektor mit LED-Baugruppen, LED-Betriebsgerät und Anschlussklemmen sowie einer transparenten Abdeckung aus Polycarbonat. Die Leuchte ist zusätzlich mit einem austauschbaren Batterieblock für die Notlichtfunktion ausgestattet. Der Batterieblock (7 Ah oder 4 Ah) wird in einem separaten Gehäuse montiert, das seitlich an der Leuchte angebracht ist. Alternativ kann der kleinere Batterieblock (4 Ah) mit angepasster Bauform auch direkt in das Leuchtengehäuse integriert werden. Die Leuchte ist für den Einsatz im Innen- und Außenbereich vorgesehen.

Technische Daten:

- Nenneingangsspannung: 110 V...240 V AC
  110 V...250 V DC
- Nenneingangsleistung: 15 W (Typ 6409/11.)
  28 W (Typ 6409/12. und 6409/412.)
  52 W (Typ 6409/14. und 6409/414.)
- Batterie: NiCd 6 V / 7 Ah
  NiCd 6 V / 4 Ah
- Optionale DALI-Schnittstelle: (gemäß IEC 62386-207): ≤ 22,5 V DC; typ. ≤ 2 mA (250 mA kurzzeitig)
- Durchverdrahtung: bis 3 x 16 A
- Umgebungstemperatur: -30 °C...+60 °C (ohne Durchverdrahtung)
  -30 °C...+55 °C (Durchverdrahtung 3 x 10 A)
  -30 °C...+50 °C (Durchverdrahtung 3 x 16 A)

Varianten:

Leuchtentyp	6409/11.	6409/12. und 6409/412.	6409/14. und 6409/414.
Anzahl LEDs	12 LEDs	24 LEDs (6409/12.) 96 oder 120 LEDs (6409/412.)	48 LEDs (6409/14.) 192 oder 240 LEDs (6409/414.)
Nenneingangsleistung	15 W	28 W	52 W
Leuchtengröße*	Größe 2	Größe 2	Größe 4

(*) Größe 2 mit Batteriekasten: 857 mm × 184 mm × 125 mm (Länge × Breite × Höhe)
mit innenliegender Batterie: 700 mm × 184 mm × 125 mm (Länge × Breite × Höhe)
Größe 4 mit Batteriekasten: 1467 mm × 184 mm × 125 mm (Länge × Breite × Höhe)
mit innenliegender Batterie: 1310 mm × 184 mm × 125 mm (Länge × Breite × Höhe)

Änderungen gegenüber der Ausgabe 2 dieser Bescheinigung:

Änderung 1
Hinzufügen neuer Batteriezellentypen

Änderung 2
Hinzufügen einer neuen Leuchtenvariante ohne externen Batteriekasten. Der Batterieblock (4 Ah) mit angepasster Bauform wird direkt in das Leuchtengehäuse integriert.

Änderung 3
Die LED-Module des Leuchtentyps 6409/4. können mit einem neuen Typ von Mid-Power-LEDs ausgestattet werden. Die Gesamtzahl der LEDs erhöht sich auf 120 bzw. 240 pro Leuchte (abhängig vom Typ).

Änderung 4
Übereinstimmung mit der aktuellen Norm EN IEC 60079-0:2018

[16] **Prüfbericht**
Die Prüfergebnisse sind im vertraulichen Prüfbericht IB-18-3-0162 vom 28.06.2019 festgehalten.

Die Prüfunterlagen sind Teil des Prüfberichts und werden darin aufgelistet.

Zusammenfassung der Prüfergebnisse
Die LED-Notlichtleuchte Typ 6409/1. und 6409/4. genügt den Anforderungen des Explosionsschutzes für Geräte der Gruppe II, Kategorie 3G in der Zündschutzart erhöhte Sicherheit „e" für die Explosionsgruppe IIC sowie Kategorie 3D und 2D in der Zündschutzart Schutz durch Gehäuse „t" und inhärent sichere optische Strahlung „op is" für die Explosionsgruppe IIIC.

Sicherheitstechnische Hinweise:

- Das Kunststoffgehäuse ist gegen intensive elektrostatische Aufladevorgänge zu schützen. Die Oberfläche darf nur feucht gereinigt werden.
- Beim Austausch der Batterie sind die Hinweise des Herstellers in der Betriebsanleitung zu beachten.

[17] **Besondere Bedingungen für die Verwendung**
Keine

[18] **Wesentliche Sicherheits- und Gesundheitsanforderungen**
Zusätzlich zu den wesentlichen Sicherheits- und Gesundheitsanforderungen, die in den Anwendungsbereich der unter Punkt [9] genannten Normen fallen, wird Folgendes für dieses Produkt als relevant angesehen und die Konformität wird im Prüfbericht dargelegt:
Keine

[19] **Zeichnungen und Unterlagen**
Die Dokumente sind im Prüfbericht aufgelistet.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

Im Auftrag

Dipl.-Ing. (FH) A. Henker

Freiberg, 04.07.2019

[1] EU-TYPE EXAMINATION CERTIFICATE - Translation

[2] Equipment or protective systems
intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU16ATEX1233** | Issue 3

[4] Product: **LED Emergency Light Fitting**
Type: 6409/1. and 6409/4.

[5] Manufacturer: R. STAHL Schaltgeräte GmbH

[6] Address: Am Bahnhof 30
74638 Waldenburg
GERMANY

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-18-3-0162.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015 EN 60079-18:2015
EN 60079-28:2015 EN 60079-31:2014
except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

Ⓔx II 3G Ex db ec IIC T4 Gc
Ⓔx II 3G Ex db ec mb IIC T4 Gc
Ⓔx II 3D Ex tc IIIC T100°C Dc
Ⓔx II 2D Ex tb op is IIIC T100°C Db
$-30\ °C \leq T_a \leq +50/+55/+60\ °C$

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By order

A. Henker

Dipl.-Ing. (FH) A. Henker

Zertifizierungsstelle Explosionsschutz IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *
- Seal -
(notified body number 0637)

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2019-07-04

[13] **Schedule**

[14] **Certificate number IBExU16ATEX1233** | Issue 3

[15] **Description of product**

The LED Emergency Light Fitting of type 6409/1. and 6409/4. is a LED luminaire with emergency light function that is suitable for use in areas with potentially explosive gas and dust atmospheres of zone 2, 21 and 22. The luminaire consists of a polyester enclosure, an assembly plate / reflector with LED modules, LED control gear and terminals, and a light-transmitting cover made of polycarbonate. Additionally, the luminaire is equipped with a replaceable battery pack for emergency light function. The battery pack (7 Ah or 4 Ah) is mounted in a separate enclosure that is attached to the side of the luminaire. Alternatively, the smaller battery pack (4 Ah) with adapted shape can also be integrated directly into the luminaire enclosure. The luminaire is intended for indoor and outdoor use.

Technical data:

- Nominal input voltage: 110 V...240 V AC
110 V...250 V DC
- Rated input power: 15 W (type 6409/11.)
28 W (type 6409/12. and 6409/412.)
52 W (type 6409/14. and 6409/414.)
- Battery: NiCd 6 V / 7 Ah
NiCd 6 V / 4 Ah
- Optional DALI interface: (acc. to IEC 62386-207) ≤ 22.5 V DC; typ. ≤ 2 mA (250 mA short-time)
- Through-wiring: up to 3 x 16 A
- Ambient temperature: -30 °C...+60 °C (without through-wiring)
-30 °C...+55 °C (through-wiring 3 x 10 A)
-30 °C...+50 °C (through-wiring 3 x 16 A)

Variants:

Luminaire type	6409/11.	6409/12. and 6409/412.	6409/14. and 6409/414.
Number of LEDs	12 LEDs	24 LEDs (6409/12.) 96 or 120 LEDs (6409/412.)	48 LEDs (6409/14.) 192 or 240 LEDs (6409/414.)
Rated input power	15 W	28 W	52 W
Luminaire size*	Size 2	Size 2	Size 4

(*) Size 2 with battery enclosure: 857 mm × 184 mm × 125 mm (length × width × height)
with internal battery: 700 mm × 184 mm × 125 mm (length × width × height)
Size 4 with battery enclosure: 1467 mm × 184 mm × 125 mm (length × width × height)
with internal battery: 1310 mm × 184 mm × 125 mm (length × width × height)

Variations compared to issue 2 of this certificate:

Variation 1
Addition of new battery cell types

Variation 2
Addition of a new version of the luminaire without external battery enclosure. The battery pack (4 Ah) with adapted shape is integrated directly into the luminaire enclosure.

Variation 3
The LED modules of luminaire type 6409/4. can also be equipped with a new type of mid-power LEDs. The total number of LEDs increases to 120, or resp., 240 per luminaire (depends on type).

Variation 4
Conformity with current standard EN IEC 60079-0:2018

[16] **Test report**
The test results are recorded in the confidential test report IB-18-3-0162 of 2019-06-28.

The test documents are part of the test report and they are listed there.

Summary of the test results
The LED Emergency Light Fitting type 6409/1. and 6409/4. complies with the requirements of explosion protection for electrical equipment of group II, category 3G in type of protection increased safety "e" for explosion group IIC, as wells as category 3D and 2D in type of protection dust ignition protection by enclosure "t" and inherently safe optical radiation "op is" for explosion group IIIC.

Safety instructions:

- The plastic housing has to be protected against intense electrostatic charging processes. Cleaning is permitted only with a damp cloth.
- For battery replacement see manufacturer's instructions in the operation manual.

[17] **Specific conditions of use**
None

[18] **Essential health and safety requirements**
In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:
None

[19] **Drawings and Documents**
The documents are listed in the test report.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order

Dipl.-Ing. (FH) A. Henker

Freiberg, 2019-07-04