



EU-TYPE EXAMINATION CERTIFICATE



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. 1**
- [4] Product: **D1xB2 range of signalling Strobe and LED Beacons and D1xJ2 Junction Boxes**
- [5] Manufacturer: **European Safety Systems Limited**
- [6] Address: **Impress House, Units 18 & 20, Mansell Rd., Acton, London W3 7QH GB UK**
- [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 Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to 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. **4788165584.5.1**
- [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**
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe 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 the certificate.
- [12] The marking of the product shall include the following:

 **II 2 G Ex db IIC T6...T3 Gb**
 **II 2 D Ex tb IIIC T95°C...T169°C Db**

Certification Manager
Jan-Erik Storgaard

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: 2019-06-14



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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Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

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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 but closed with a single piece moulded threaded cover instead of the beacon lens.

| 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 | |
| D1xJ2T01 | - | - | - |
| D1xJ2D01 | - | - | - |
| D1xJ2M01 | - | - | - |

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 not covered in this certificate.

Temperature range

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

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| | | | |
|--------------------------------|------------|--------|----------------|
| | Ex tb IIIC | T169°C | -55°C to +80°C |
| 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 |
| 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 |

Electrical data

| 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 |
| D1xJ2*** | 60VDC Max | 260VAC Max | 50/60 | 10 Watts |

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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.

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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.

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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.


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Essential Health and Safety Requirements

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

Additional information



The trademark  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.

Accredited by DANAK under registration number 7011 to certification of products.

EU-TYPE EXAMINATION CERTIFICATE



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 60079-31:2014

EN 60079-1:2014
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 IIC 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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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 |
| | DC024 | |
| D1xS2 – medium and high power | AC230 | -S – SIL Unit (DC024 only) |
| | 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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Loudspeaker:

| Models | Temperature Class (Gas) | Temperature Class (Dust) | Associated Maximum Ambient Temperature |
|-----------------|-------------------------|--------------------------|--|
| D1xL1-V070 (-A) | T5 | T86°C | -55°C to +75°C |
| D1xL1-R008 (-A) | T6 | - | -55°C to +60°C |
| D1xL1-R016 (-A) | | | |
| D1xL1-AXIS-A | | | |
| D1xL2-V070 (-A) | T5 | T91°C | -55°C to +75°C |
| D1xL2-R008 (-A) | T6 | - | -55°C to +55°C |
| D1xL2-R016 (-A) | | | |
| D1xL2-AXIS-A | | | |
| 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 |

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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 failures.
- 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.

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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.



Accredited by DANAK under registration number 7011 to certification of products.

Form-ULID-000217 (DCS:00-IC-F0056-1) – Issue 28.0

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

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Specific conditions of use:

- No repair to the flameproof joints is permitted.


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Essential Health and Safety Requirements

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

Additional information



The trademark  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.