

**UK Type Examination Certificate CML 21UKEX21304X Issue 0**
**United Kingdom Conformity Assessment**

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **Enclosure type GUB\*\*\* or GUBX\*\*\***
- 3 Manufacturer **Pepperl+Fuchs SE**
- 4 Address **Lilienthalstrasse 200  
68307 Mannheim  
Germany**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014


EN IEC 60079-7:2015/A1 :2018

EN 60079-11:2012


EN 60079-28:2015

EN 60079-31:2014


10 The equipment shall be marked with the following:

 II 2 G


or

 II 2 D


or

 II 2 (1) G


or

 II 2 (1) D


or

 II 2(2) G


or

 II 2(2) D

or

 I M2

or

 I M2(M1)

Ex db IIA/IIB/IIB+H2/IIC Gb

or

Ex db I Mb

and/or

or Ex tb IIIC Db IP

*The different types are indicated in the descriptive documents.*





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## 11 Description

The metallic enclosures made in aluminum alloy (GUB) or in stainless steel (GUBX) of different sizes are covered by the certificate CML 21UKEX2976U This range is suitable for explosive gas explosive atmospheres of group I (in stainless steel only), IIA, IIB and IIB+H2 or IIC and for dust explosive atmospheres group IIIC. These enclosures can have a blind cover or provided with glass windows and an extension.

Enclosures could be fitted with accessories (breather/drains devices, pilot lights, operators) covered by separated Ex Component certificates. The list of the components is defined in the descriptive documents of the manufacturer.

In accordance with the technical documentations and instructions manual, they can also contain:

- 'IS' element covered by a separated certificate and/or 'NIS' elements.
- Batteries
- Electromagnetic, ultrasonic, radio frequency sources, new measurement instruments and some equipment with type protection "Ex i", "Ex e", "Ex m", "Ex o", "Ex p" and "Ex q" covered by separated full conformity certificates.
- Optical fiber or laser with type of protection "op is" or "op pr" and lasers with type of protection "op is" covered by EU-Type examination certificate.

The enclosures could also contain the optical device type "OPC120" (not covered by EU-Type examination certificate) protected by "op is". The enclosures could be coupled by certified sealing bushings with an enclosure with type protection "Ex d e", "Ex e" or "Ex i" also covered EU-Type examination certificate.

These enclosures get the degrees of protection IP66 without O-ring or IP66/67 with O-ring according to the EN 60529 standard but the final marking should be in accordance with the minimum degrees of protection of accessories mounted on the enclosures

Maximum supply voltage for "IS" elements: 250 Vac Rated frequency :50/60 Hz Maximum power of the signaling operators :5 W (T4, T3 with incandescent lamps of 5 W)

The maximum dissipated powers are defined in the descriptive documents for the different ambient temperature ranges and according to the type of the enclosure (with or without windows), the class of temperature and the presence or absence of the thermal probe to protect 'IS' elements.

When thermal probes are used in order to protect the 'IS' elements regarding the high temperature, the maximum threshold of thermal probe shall be according with threshold value of  $[(T_{IE} - 2) \pm 2^{\circ}\text{C}]$ .

•  $T_{IE}$  = Maximum value of the certified ambient temperature of the "IS" elements.

When thermal probes are used in order to protect the 'IS' elements regarding the low temperature, the maximum threshold of thermal probe shall be according with threshold value of  $[(T_{minEx} + 2) \pm 2^{\circ}\text{C}]$ .

•  $T_{minEx}$  = Minimum value of the certified ambient temperature of the "IS" elements.

In accordance with the Ex component certificate CML 21UKEX2976U, and depending on the final configuration of the enclosures, the equipment can be used in the ambient temperature range from -60°C up to +190°C.

### Uses of Ex Components covered by separated UKEx certificates:

The list of the components and their restrictions of uses are detailed in the descriptive documents of the manufacturers. The manufacturer should refer to the last issue of the component certificates to ensure the compliance with the conditions of uses on the end-product and with the final marking.



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## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	17 Dec 2021	R14112BX/00	Prime Certificate issued.

Note: Drawings that describe the equipment are listed or referred to in the Annex.

## 13 Conditions of Manufacture

- i. In accordance with clause 16.1 of the EN 60079-1 standard each apparatus defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under a pressure in accordance with the values specified in the certificate INERIS 16ATEX9005U.

## 14 Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The width of the flameproof joints is superior to those specified in tables of EN 60079-1 standard: contact the original manufacturer for any repairs of the flameproof joints
- ii. During the installation, for Group I, the user will have to take into consideration that the equipment underwent only a shock corresponding to an energy of a low risk.
- iii. During use in explosive atmosphere of Group I, the exposure of the enclosures with windows to specific chemical agents as oils, greases and hydraulic liquids must be excluded.

## Certificate Annex

**Certificate Number** CML 21UKEX21304X  
**Equipment** Enclosure type GUB\*\*\* or GUBX\*\*\*  
**Manufacturer** Pepperl+Fuchs SE



The following documents describe the equipment defined in this certificate:

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For drawings describing the equipment, refer to attached certificate INERIS 14ATEX0035X. In addition to the drawings listed on INERIS 14ATEX0035X, the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
16-1555CM-10	1 to 2	0	17 Dec 2021	Additional Marking Requirements for UKCA