UK Type Examination Certificate CML 21UKEX1425U Issue 0

United Kingdom Conformity Assessment

1 Component Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

2 Component **Empty Enclosures Type EJB***/EJBX****

3 Manufacturer **Pepperl+Fuchs SE**

4 Address **Lilienthalstrasse 200**
68307 Mannheim
Germany

5 The component 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 Section 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this component 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 The 'U' suffix after the certificate number indicates that the component is subject to limitations (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 component. 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 60079-31:2014

10 The equipment shall be marked with the following:

Ex I M2	Ex II 2 G	Ex II 2 D
Ex db I Mb	Ex db IIA Gb	Ex tb IIIC Db
	Ex db IIB Gb	
	Ex db IIB+H2 Gb	

IP66 or IP66/67

Ts: Refer to schedule of limitations.

R C Marshall
Operations Manager

11 Description

The metallic enclosures made in aluminium alloy (EJB) or in stainless steel (EJBX) have different sizes and configurations as specified in the descriptive documents and schedule drawings. This range is suitable for explosive gas explosive atmospheres of group I (in stainless steel only), IIA, IIB and IIB+H2 and for dust explosive atmospheres group IIIC.

These enclosures can have a blind cover or provided with rectangular or circular glass windows.

The cover is fixed by stainless steel or carbon steel screws having minimum yield stress: 450N/mm^2 (typical grade A2/A4-70 or 6.8).

These Ex-components get the degrees of protection IP66 without gasket and IP66/67 with gasket in accordance with EN 60529.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 May 2021	R14112H/00	Issue of Prime Certificate

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

13 Conditions of Manufacture

Conditions of manufacture not listed on INERIS 14ATEX9010U Iss. 2.

14 Schedule of Limitations

i. The enclosures provided with windows have been assessed and tested to be used in the range of the operating temperatures from -52.5°C to +180°C.
ii. The enclosures without windows have been assessed and tested to be used in the range of the operating temperatures from -60°C to +200°C.
iii. The enclosure have been assessed and tested to be used in the range of ambient temperature from -60°C (without windows) or -52.5°C (with or without windows) up to +60°C.
iv. 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.

Additional schedule of limitations when protected by "Ex db":

i. The non-transmission tests in accordance with the standard EN 60079-1 have been carried out for Group IIB+H2 with external obstructions having a distance to the flanged joints less than that indicated in Table 11 of the standard: minimum distance 10mm.
ii. Maximum number of apertures, their maximum sizes and their positions are defined in the drawings listed in the certifications file 16-1066IR Rev.B.
iii. The width of the flameproof joints is superior tot hose specified on tables of EN 60079-1 standard: contact the original manufacturer for any repairs of the flameproof joints.
iv. The content of the Ex-component enclosure equipment may be placed in any arrangement provided that an area of at least 40% (for the Gas Group IIB+H2) or 20% (for Gas Group I, IIA or IIB) of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion.

v. The marking may be omitted if the enclosure manufacturer is also intended to be the holder of the equipment certificate.

Certificate Annex

Certificate Number	**CML 21UKEX1425U**
Component	**Empty Enclosures Type EJB***/EJBX***
Manufacturer	**Pepperl+Fuchs SE**

The following documents describe the component defined in this certificate:

Issue 0

For drawings describing the component, refer to attached certificate INERIS 14ATEX9010U Iss. 2. In addition to the drawings listed on INERIS 14ATEX9010U Iss. 2, 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 of 2	0	28 May 2021	Additional Marking Requirements for UKCA