

UK Type Examination Certificate CML 22UKEX1267X 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 **Adaptors and Plugs AD .. , AD.FF.. , AD.MM.. , SP.MA .., SP.MD ..**

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:

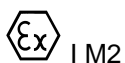
EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015/A1:2018

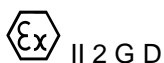
EN 60079-31:2014

10 The equipment shall be marked with the following:



Ex db I Mb

Ex eb I Mb



Ex db IIC Gb

Ex eb IIC Gb

Ex tb IIIC Db





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11 Description

The Adaptors series **AD ..**, **AD.FF ..**, **AD.MM ..** are used to match equipment, pipes and hubs having different threaded entry sizes. Attachment of the Adaptors to an enclosure is by means of the male threaded portion on the male body. Ingress protection of IP66/68 (50 m for 30 min.) is maintained when the Adaptors are installed in accordance with the manufacturer's instructions.

The series of available Adaptors are:

AD -- they are used to reduce a female hub or increase a male hub.

AD - they are used to increase a female hub or reduce a male hub.

AD.FF -- they are used to vary the diameter of a male hub by transforming it into a female hub.

AD.MM - they are used to vary the diameter of a female hub by transforming it into a male hub.

The male Plugs series **SP.MA ..**, **SP.MD ..** are suitable for closing female hubs or unused openings on Ex db pipes or Ex db, Ex eb and Ex tb enclosures. Attachment of the male plugs to an enclosure is by means of the male threaded portion on the male body. Ingress protection of IP66/68 (50 m for 30 min.) is maintained when the male plugs are installed in accordance with the manufacturer's instructions.

The series of available Plugs are:

SP.MA.M -- they are used to close a female hub with ISO Metric threads only.

SP.MA.NPT - they are used to close a female hub with tapered threads.

SP.MD.M they are used to close a female hub with cylindrical threads.

SP.MD.NPT they are used to close a female hub with NPT tapered threads Ex eb or Ex tb execution only.

For full description refer to CESI 15 ATEX 029X, Issue 2.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	07 Sep 2022	R14750D/00	Prime Certificate issued.

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

13 Conditions of Manufacture

None.

14 Specific Conditions of Use

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

- i. The coupling of the Adaptors and Plugs with the enclosures shall be made as indicated by the manufacturer in the documents annexed to this certificate in order to respect the type of protection of the electrical apparatus on which the adaptors and plugs are mounted.
- ii. The Adaptors and Plugs shall be mounted at the electrical apparatus in such a way that accidental rotation and loosening will be prevented.



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- iii. The Adaptors and Plugs shall be installed in such a way that the temperature at the mounting point will remain within the following service temperature ranges:
 - -40°C to + 100°C for Adaptors and Plugs with Chloroprene O-rings;
 - -60°C to +130C for Adaptors and Plugs with Silicon O-rings and flat washers;
 - -40°C to +80°C for Adaptors and Plugs with Chloroprene or Fiber flat washers;
 - Restricted use up to -20°C for adaptors and plugs made of galvanized carbon steel;
 - -40°C to + 100°C for Adaptors and Plugs made of Aluminium alloy.
- iv. The Adaptors and Plugs made of Aluminium alloy are not admitted for Group I (Mines) applications.
- v. The Adaptors and Plugs sizes M12x1.5 (1/4"NPT) and M16x1.5 (3/8"NPT) are not admitted for Group I (Mines) applications.
- vi. The Adaptors and Plugs sizes M12x1.5 (1/4"NPT) and M16x1.5 (3/8"NPT) made of Aluminium alloy are for Ex eb and Ex tb applications only.
- vii. The Plugs type SP.MD.NPT .. ar e not admitted for Group I {Mines) applications and are for Ex eb and Ex tb application only.
- viii. The Adaptors and Plugs sizes M12x1.5 (1/4"NPT) and M16x1.5 (3/8"NPT) made of Aluminium alloy shall be protected from impacts because assessed for low risk only.
- ix. The degree of protection IP 66/68 according to the EN 60529 standard will be guaranteed for the adaptors and plugs if the holes into which adaptors and plugs are mounted are suitably sealed. To this scope the correct positioning of the gaskets (for cylindrical threads) or the application of sealant on the threads (for tapered threads), shall be done as indicated in the manufacturer instruction.

Certificate Annex

Certificate Number CML 22UKEX1267X
Equipment Adaptors and Plugs AD .. , AD.FF.. , AD.MM.. , SP.MA .. ,
SP.MD ..
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 CESI 15ATEX029X. In addition to the drawings listed on CESI 15ATEX029X, 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		Additional Marking Requirements for UKCA