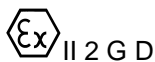


UK Type Examination Certificate CML 21UKEX21275X Issue 0**United Kingdom Conformity Assessment**

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **PM* Series of Panel Mount Control Units**
- 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 eb IIC T6 Gb
Ex tb IIIC T80°C Db

Ta= -40°C to +50°C



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11 Description

The PM* Series of Panel Mount Control Units have a protection type 'Ex d e' and 'Ex tb'. The enclosure of these products comprises of a plastic protective housing with a cable gland integrated in to the wall. An operation head which is certified as an Ex component is installed to suit the application.

There are four models of electric modules which are intended for panel mounting. Depending on the model, there are different certified Ex components mounted inside the enclosure. The specification of the four models is shown in the table below:

Model & Product Type	Electrical Ratings	Variants
PMP.* panel mount pushbutton module PMS.* panel mount switch module	250 V ac / 16 A 110 V dc / 1 A 24 V dc / 1 A	Switch Module
PMI.* panel mount illuminated pushbutton module	Button: 250 V ac / 10 A 24 V dc / 1 A Lamp: 12 – 250 V ac / dc $P_{max} \leq 1 \text{ W}$	Signal lamp with button module
PML.* panel mount LED module	12 – 250 V ac / dc 200 – 400 V ac $P_{max} \leq 1 \text{ W}$	Signal lamp module
PMR.* panel mount potentiometer module	200 V dc End resistance: Max. 3 Ω 0.1 W	Potentiometer module

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 Jan 2022	R14112CA/00	Prime Certificate issued.

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



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13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Each unit shall be subjected to a routine dielectric strength test in accordance with EN 60079-7, clause 7.1. The test conditions for each model are specified below:

Model	Test voltage	Duration
PMP* / PMS*	1500 V / 50 Hz	1 minute
PMI*	1800 V / 50 Hz	1 minute
PML*	1800 V / 50 Hz	1 minute
PMR*	1500 V / 50 Hz	1 minute

No breakdown shall occur

- iii. Holders of EU Type examination certificates are also required to comply with the production control requirements defined in article 17 of 2014/34/EU.

14 Specific Conditions of Use

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

- i. The cable glands alone do not provide sufficient clamping of the cable. The user/installer shall provide further effective clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations.
- ii. The PM* panel mount control units shall be installed in an area such that there is a low risk of mechanical impact.
- iii. The equipment is considered to pose a potential electrostatic charging hazard. Refer to the instructions for guidance on the avoidance of a build-up of electrostatic charge.
- iv. Any repair of the flameproof joints shall be made in accordance with the structural specification provided by the manufacturer. Repairs shall not be made on the basis of values specified in Tables 1 or 2 of standard EN 60079-1.
- v. For the PML* series panel mount LED module, the tightening torque of the terminals is 1.1 Nm.

Certificate Annex

Certificate Number CML 21UKEX21275X
Equipment PM* Series of Panel Mount Control Units
Manufacturer Pepperl+Fuchs SE



The following documents describe the equipment defined in this certificate:

Issue 0

For drawings describing the equipment, refer to attached certificate CML 16ATEX3106X, Issue 2. In addition to the drawings listed on CML 16ATEX3106X, Issue 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 to 2	0	06 Jan 2022	Additional Marking Requirements for UKCA