



UK Type Examination Certificate CML 21UKEX2938 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 **Isolation Amplifier Type KFD0-R0-Ex2.****
- 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 60079-0:2018 EN 60079-11:2012
- 10 The equipment shall be marked with the following:

 I (M1)
[Ex ia Ma] I

 II (1) G
[Ex ia Ga] IIC

 II (1) D
[Ex ia Da] IIIC



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11 Description

The isolation amplifier serves for the transmission of switching commands from the non-hazardous area to the hazardous area.

The electrical components of the isolation amplifier are securely fixed on an isolating plate. This isolating plate is mounted in a plastic box.

In the head part of the box are terminals for the connection of the intrinsic safe and the non-intrinsic safe circuits.

Parameters

Non-intrinsically safe circuits (terminals 7, 8 and 9)

nominal voltage = 20 – 30 V DC

maximum voltage U_m = 40 V DC

Potential free relay contact circuits (terminals 1, 2 and 3 and 4, 5 and 6)

Each for the connection of an intrinsically safe circuit type of protection ia or ib with the following maximum values:

Maximum input voltage U_i = 60V

Maximum input current I_i = 2A

effective internal inductance= negligible

effective internal capacitance = negligible

ambient temperature range T_a = - 20 °C to + 65 °C

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	20 Aug 2021	R14112AW/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 manufacturer shall carry out the routine verifications and tests by EN 60079-0:2018 necessary to ensure that the subject produced complies with the specification submitted to the testing station together with the prototype or sample. He shall also make any routine verifications and tests required by the respective European Standards.

These routine verifications and tests do not substitute for the procedure defined in annexes IV to VII inclusive of Directive 2014/34/EU as required, in addition to the module EU-Type Examination, for the conformity assessment procedure (article 13 of Directive 2014/34/EU).

14 Specific Conditions of Use

None.

Certificate Annex

Certificate Number CML 21UKEX2938
Equipment Isolation Amplifier Type KFD0-R0-Ex2.**
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 DMT 00ATEXE016 Issue 3. In addition to the drawings listed on DMT 00ATEXE016 Issue 3, 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	20 Aug 2021	Additional Marking Requirements for UKCA