

UK Type Examination Certificate CML 21UKEX1819 Issue 0**United Kingdom Conformity Assessment**

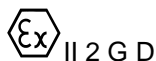
- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **E501 Miniature Wellglass Light Fitting**
- 3 Manufacturer **Pepperl+Fuchs SE**
- 4 Address **Lilienthalstrasse 200
68307 Mannheim
Germany**

- 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 60079-1:2014 EN 60079-31:2014

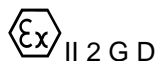
- 10 The equipment shall be marked with the following:



Ex db IIB T4 Gb

Ex tb IIIC T120°C Db

Ta= -40°C to +55°C



Ex db IIB T5 Gb

Ex tb IIIC T100°C Db

Ta= -40°C to +40°C



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11 Description

The Type E501 Miniature Wellglass Light Fitting is rated for a 15 WMAX 250 VMAX tungsten filament lamp. The E501 comprises a cast iron cylindrical body and a cast iron collar. The collar is fitted with a chemically toughened wellglass, which is cemented and secured by a metal backing ring, the bezel ring being secured by two M5 hexagonal socket set screws. The body and collar are fitted together using a centre body. This item provides a cylindrical flamepath with the body and a $\text{Ø}63 \times 1.5$ 6H/6g threaded flamepath with the collar. A BC lamp holder assembly is screwed into the terminal barrier of the central body and a cast iron terminal housing makes a cylindrical joint with the centre body. The cast iron terminal housing is secured by two M5 hexagonal socket headed cap screws. Internal and external earthing facilities are provided. A compressible gasket is fitted between the cover assembly and terminal box for weather proofing. Two cable entries are provided in the terminal housing for connection of suitably certified cable glands or blanking plugs. The luminaire has universal mounting attitudes.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	18 Oct 2021	R14112AF/00	Prime Certificate issued.

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

13 Conditions of Manufacture

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

1. Each aluminium enclosure marked as suitable for a -40°C minimum ambient temperature shall be subjected to a routine overpressure test of 11.5 bar for at least 10 s as required by clause 16.1 of EN 60079-1:2007. There shall be no permanent deformation or damage as a result of the test.
2. Each cast iron double ended luminaire enclosure, marked as suitable for a -40°C minimum ambient temperature shall be subjected to a routine overpressure test of 14.57 bar for at least 10 s as required by clause 16.1 of EN 60079-1:2014. There shall be no permanent deformation or damage as a result of the test.

14 Specific Conditions of Use

None.

Certificate Annex

Certificate Number CML 21UKEX1819
Equipment E501 Miniature Wellglass Light Fitting
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 CML 21ATEX1699. In addition to the drawings listed on CML 21ATEX1699, 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	18 Oct 2021	Additional Marking Requirements for UKCA