

EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**

2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**



3. **EU type examination certificate Nr** **ITS16ATEX101335X R.2**

4. **Product:** Types CB, CF, CK, CQ, CQM, CY, PD-E4, PD-U, PH-E, PA-D/PA-U, PB-U/PB-D and PS Stopping Plugs

5. **Manufacturer:** EATON ELECTRICAL SYSTEMS Ltd Trading as Eaton, Raxton, Redapt and Capri **Applicant:** EATON ELECTRICAL SYSTEMS Ltd Trading as Eaton, Raxton, Redapt and Capri

6. **Address:** Kingsway South, Westgate, Aldridge, West Midlands, WS9 8FS, United Kingdom **Address:** Kingsway South, Westgate, Aldridge, West Midlands, WS9 8FS, United Kingdom

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. G103326724 Issue 1 dated April 2018, Nr. 103717291LHD-001d dated June 2019, Nr. 104039337LHD-001a dated September 2019 and Nr. 104689779LHD-001 dated 12 July 2022.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015/A1:2018 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



I M2 Ex db I Mb
I M2 Ex eb I Mb



II 2G Ex db IIC Gb
II 2G Ex eb IIC Gb
II 2D Ex tb IIIC Db IP66

(Group I marking does not apply to CY, CQM PD-E4 Stopping Plugs) (Ex db marking does not apply to PS, CQM, PD-E4 or PH-E) Ta = -60°C to +200°C (Dependant on construction material and O-ring fitted).

Certificate issue date

9th November 2022

Mark Newman

Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy



SCHEDULE

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Type CF,CB, CK, CQ, CQM, CY, PD-U,PA-D /PA-U, PB-D/PB-U, PH-E, PD-E4 and PS ranges of Stopping Plugs, depending on model type, can be mounted either internally or externally and comprise of either a metallic or Nylon round body with either a dome or mushroom shaped head. They may be provided with an optional hexagonal key-way recess for tightening. They may also be optionally machined with a groove to fit an 'o' ring seal.

The PH-E, PD-E4, CQM and PS Series are increased safety Ex eb and Ex tb and are not suitable for Ex db applications

Material Options:

- Brass BS 2872 (CZ121)
- Lead free brass
- Mild Steel to BS970 (EN1A)
- Stainless Steel to BS970 (316)
- Aluminium BS1474, 6082T6
- 30% Glass Filled Nylon
- 40% Glass Filled Nylon
- Surface Coating: Nickel, Zinc, Electroless Nickel, Chromatize, Anonized

Entry threads options:

- Metric to BS3463
- ET Conduit to BS 31
- PG to DIN 40430
- BSP to BS 2779
- BSPT to BS 21
- NPT to ANSI/ASME B1.20.1
- Or Any thread forms conforming with Table 3 of EN 60079-1

Metric thread forms are between M12 and M120 (M16 to M75 for Nylon CQ-M type plugs; M16 to M110 for Nylon PD-E4 type plugs)

At their point of mounting, these devices are suitable for use at the following temperatures dependent on the type of 'o'-ring:

O-ring Service temperature:

- None fitted -60°C to 200°C
- EPDM -50°C to +100°C
- Nitrile -30°C to +80°C
- Neoprene -40°C to +80°C
- Viton -20°C to +180°C
- Silicone -60°C to +180°C
- Fluorosilicone -60°C to +130°C

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.



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14. DRAWINGS AND DOCUMENTS

| Technical Documents | | | |
|---|---------------------|--------------------|--------------|
| Title: | Drawing No.: | Rev. Level: | Date: |
| R-V Label | 10230 | A-3 | 25/03/2014 |
| *Ex accessories Safety instruction FR-GB-DE-BR-RUS | CAP184267 | 2022-03b | 2022-03b |
| Stopping Plugs (CB & CF Tapered) | CB-CF | 1 | 05/04/2016 |
| Stopping Plugs (CQ, CK & CY) | CQ-CK-CY | 1 | 18/04/2011 |
| Exe Glass Filled Nylon Stopping Plugs | CQ-M | 2 | 08/07/2018 |
| Ex d / Ex e I & IIC Certified Tapered Stopping Plugs | PA-U, PB-U | 1 | 08/03/2016 |
| Ex d / Ex e I & IIC Certified Parallel Stopping Plugs | PA-U, PB-U | 1 | 08/03/2016 |
| EExe II Dome Head Stopping Plugs | PD-E | 2 | 09/07/2019 |
| Ex d I & IIC & Ex e IIC Domehead Stopping Plugs | PD-U | 1 | 28/03/2016 |
| EEx e II Hex Head Stopping Plugs | PH-E | 1 | 04/04/2016 |
| *Specification drawing – All plugs | SPEC-PLUGS | Rev-I-0 | 25/04/2022 |
| *Specification drawing – PS plugs | SPEC-PS | Rev-I-0 | 25/04/2022 |
| *PS plug - Metric version | PS-CERT-METRIC | 1 | 05/05/2021 |
| *PS plug - Metric version with collar | PS-CERT-METRIC-COL | 1 | 05/05/2021 |
| *PS plug – NPT version | PS-CERT-NPT | 1 | 05/05/2021 |
| * PS plug – NPT version with collar | PS-CERT-NPT-COL | 1 | 05/05/2021 |
| *Marking Drawing | MARK-PLUGS | Rev-I-0 | 17/06/2022 |

Note: An * is included before the title of documents that are new or revised.

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC CONDITIONS OF USE

- If a stopping plug is machined with an undercut and is used for an Ex db application, then the wall of the enclosure into which it is fitted shall be such as to maintain five full threads engagement.
- When used for increased safety or Ex eb or protection by enclosure Ex tb applications, a suitable method of sealing to the associated enclosure shall be fitted.
- The stopping plugs shall not be used with any form of adaptors or reducers.
- The stopping plugs, when manufactured from non-metallic material, are only suitable for installation in areas considered to be a low risk from mechanical impact.
- The stopping plugs, when manufactured from non-metallic material 40% Glass Filled Nylon, shall be adequately protected from direct exposure to sunlight
- The stopping plugs, when construction from non-metallic material, shall only be cleaned with a damp cloth.
- The clearance holes for metric male threaded products, suitable for clearance hole applications of increased safety enclosures are to have a diameter of 0.3 to 0.5mm larger than the major diameter of the male thread.



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16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104689779LHD-001 dated 12th July 2022.

17. ROUTINE (FACTORY) TESTS

None.

18. DETAIL OF CERTIFICATE CHANGES

R.0 (4th October 2019):

- First issue by NB2575 after transfer from NB0359.

R.1 (4th December 2020):

- Designation '-U' re-introduced as a universal type certified Ex eb, Ex db and Ex tb.
- Nylon material reference revised.
- Drawings CQ-M and PD-E revised to Issue 2.

R.2 (9th November 2022):

- Re-evaluation to latest harmonized standards EN IEC 60079-0:2018.
- Addition of PS type Plugs for Ex eb and tb applications only.
- Change of brass construction material to lead free type.