

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 **ITS-I22ATEX35219X R.0**

4. **Product:** Shaft Encoder Type 01-09

5. **Manufacturer:** Eltomatic A/S

Applicant: Eltomatic A/S

6. **Address:** Fabriksvej 6, 9490, Pandrup, Denmark

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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. 105238178CHE-001 dated 13th April 2023.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-1:2014 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:



II 2 G Ex db IIB T6 Gb
-30°C ≤ Ta ≤ +60°C

21 April 2023

Certificate issue date



Todd L. Relyea
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 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.

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SCHEDULE

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The electronics of the shaft encoder is installed in a flameproof enclosure with a view to being mounted directly on the corresponding gearbox. The counter disc built-in into the enclosure, with a corresponding optical tracking, is activated from the gearbox by a leading-in shaft. The connection cable mounted by the manufacturer is lead into the enclosure through a cemented stopping box, which is a part of the enclosure.

Technical data:

Permitted range of the ambient temperature	-30°C to +60°C
Maximum rated voltage	4.5VDC to 32VDC
Maximum rated current	60mA
Maximum rotation speed	1000RPM
Pulses per revolution	1 to 500

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

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
Certification dwg - General assembly Encoder 01-09 Ex dwg	E00640109	1	07-11-2022
Certification dwg - Enclosure - joints Encoder 01-09 Ex dwg	E00740109	1	07-11-2022
Certification drawing - Housing 01-09 - Ex dwg	E700530C	1	07-11-2022
Certification drawing - Cover 01-09 - Ex dwg	E700508C	1	07-11-2022
Certification drawing - Bearing Needle Roller - Ex dwg	E620028C	1	07-11-2022
Certification drawing - Flame Bush 01-09 - EX dwg	E650004C	1	07-11-2022
Marking Label for 01-09 Ex-dwg.	592436	A	07.11.2022
Encoder type 01 - 09 - Pressure test procedure	E00240109	2	13.02.2020
Encoder type 01-09 Instructions for safe installation	E00840109	1	07.11.2022
Specification - Potting Compound CW5631/HY5610	E00241000	-	January 2011
Parts List	40.2521A.125_GB	0.1	03.06.09
PBA09 Main 4.5V-25V Totem	40.2520C.100.T	4	22-01-2008
PBA09 Placement 3010B 07_3010B	3010C_3B	1	22-01-2008
PCB 40.3200	E00141501	1	13.02.2020
Hardware variant 15-01-RS485 for Eltomatic encoder type OE01-09	E00241501	1	09.02.2023
Hardware variant 15-02 for Eltomatic encoder type OE01-09	E00940109	1	11.11.2022

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



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15. SPECIFIC CONDITIONS OF USE

- Permitted range of ambient temperature: -30°C to +60°C.
- The encoder is constructed with a permanently connected unterminated cable, which must be connected in a safe area or a certified junction box in accordance with the ATEX/UKEX system.
- It is a condition of certification that the flame paths have to comply with the manufacturers drawings and can only be repaired by the manufacturer.
- The M4 screws have the property class 8.8.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek 105238178CHE-001 dated 13th April 2023.

17. ROUTINE (FACTORY) TESTS

- All Encoders must be subjected to a routine overpressure test in accordance with the requirements of EN 60079-1:2014 Clause 16.1.1 at a test pressure of 3.75bar. All tests must be recorded.