



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ITS 21.0026X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2021-11-05
Applicant: **Eltomatic A/S**
Fabriksvej 6
9490 Pandrup
Denmark
Equipment: **Encoder Type 01-08**
Optional accessory:
Type of Protection: **Flameproof "d"**
Marking: Ex db IIB T6 Gb
-25°C/-30°C* ≤ Ta ≤ +60°C/+70°C*
* See equipment description for details
IECEX ITS 21.0026X

Approved for issue on behalf of the IECEx
Certification Body:

P Moss

Position:

Certification Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road
Leatherhead
Surrey, KT22 7SA
United Kingdom



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Manufacturer: **Eltomatic A/S**
Fabriksvej 6
9490 Pandrup
Denmark

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/ITS/ExTR21.0025/00](#)

Quality Assessment Report:

[GB/EXV/QAR17.0004/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The incremental shaft encoder 01-08 is designed for heavy-duty application in environments where potentially explosive atmospheres can be expected (Gas group IIB).

The electronics of the pulse generator is designed as a metallic "d" enclosure which is intended for mounting directly on the corresponding gearbox. The counter disc is built-in into the enclosure, with a corresponding optical tracking, which 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 integrated in the enclosure.

Technical data

Type variants covered: Encoder type name: 01-08

It can be delivered with a different number of channels (1-channel, 2-channels or 3-channels)

Electrical data

Supply voltage range 5 to 24 VDC, max 100 mA

Maximum measurable rotating speed: 1000 rpm

Ambient temperature range

-30°C to + 70°C – with fixed mounted cable

-25°C to + 60°C – with movable cable

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Permitted range of the ambient temperature: -30°C to +70°C with fixed mounted cable and -25°C to +60°C with movable cable.
- The encoder cable must be routed and externally fixed in such a way that it is protected from mechanical damage.
- The encoder is constructed with a permanently connected cable, which must be connected in a safe area or by use of a certified "e" or "d" junction box certified in accordance with IEC 60079-7 or IEC 60079-1.
- The encoder shaft must be driven via a coupling arrangement that allows some radial and axial movement, otherwise damage to the shaft bearings may occur.
- No modification must be made to the flamepaths of the enclosure.

Annex:

[IECEX ITS 21.0026X - Annex for IECEX Certificate of Conformity.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 21.0026X	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Marking Label for 01-08 Ex-dwg.	592468	A	23.07.2021
Certification drawing - Bearing Needle Roller - Ex dwg	E600004C	1	23-07-2021
Certification dwg – General Assembly Encoder 01-08 Ex dwg	E00640108	1	23-07-2021
Certification drawing - Flame Bush 01-08 - Ex dwg	E650000C	1	23-07-2021
Certification drawing - Cover 01-08 - Ex dwg	E700500C	1	23-07-2021
Certification drawing - Housing 01-08 - Ex dwg	E700501C	1	23-07-2021
Certification dwg - Enclosure – joints Encoder 01-08 Ex dwg	E00740108	1	23-07-2021
Encoder type 01-08 Instructions for safe installation	E00840108	1	23.07.2021

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Total Quality. Assured.

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