



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 TUN 09.0017X**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2017-02-06)

Issue 0 (2010-12-17)

Date of Issue: 2020-05-25

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

Equipment: **Electronic pulse generator type 01-09**

Optional accessory:

Type of Protection: **Flameproof enclosures "d"**

Marking: Ex db IIB T6 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Christian Roder

Position:

Head of IECEx Certification Body

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:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1, 30519 Hannover
Germany





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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:

[DE/TUN/EXTR09.0025/02](#)

Quality Assessment Report:

[GB/EXV/QAR17.0004/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The electronics of the pulse generator 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	4.5 VDC to 32 VDC
Maximum rated current	60 mA
Maximum rotation speed	1000 RPM
Pulses per revolution	1 to 500

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Permitted range of the ambient temperature: -30 °C to +60 °C.
2. 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 IECEx system.
3. 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.
4. The M4 screws have the property class 8.8.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 2

Update of standards IEC 60079-0 and IEC 60079-1 to the newest version.

Small changes in the electronics.

New specific conditions No. 3 and No. 4 were added.

Change of the associated QAR.