IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx TUN 14.0024X issue No.:1	Certificate history: Issue No. 1 (2017-2-8) Issue No. 0 (2015-8-29)
Status:	**Current**	
Date of Issue:	**2017-02-08**	Page 1 of 4
Applicant:	**Eltomatic A/S** Fabriksvej 6 9490 Pandrup **Denmark**	
Equipment: *Optional accessory:*	**Electronic Encoder type: 01-08**	
Type of Protection:	**Flameproof Enclosure "d"**	
Marking:	Ex d IIB T6 Gb	
Approved for issue on behalf of the IECEx Certification Body:	Christian Roder	
Position:	Deputy Head of the Certification Body	
Signature: *(for printed version)*		
Date:	2017-02-08	

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 the Official IECEx Website.

Certificate issued by:

TÜV NORD

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

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

*This Certificate **does not** indicate compliance with electrical 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/ExTR14.0032/00 DE/TUN/ExTR14.0032/01

Quality Assessment Report:

DE/TUN/QAR10.0001/03

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Schedule

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 4.5 to 24 VDC, max 100 mA
Maximum measurable rotating speed: 600 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:

1. Permitted range of the ambient temperature: -30°C to +70°C with fixed mounted cable and -25°C to +60°C with movable cable.
2. The encoder cable must be routed and externally fixed in such a way that it is protected from mechanical damage.
3. 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.
4. 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.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Change of the type label design