



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 12.0029X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2022-04-27)
Date of Issue:	2023-06-06		Issue 1 (2017-06-08)
Applicant:	Baumer Germany GmbH & Co. KG Bodenseeallee 7 78333 Stockach Germany		Issue 0 (2013-02-14)
Equipment:	Incremental encoder type EExHOG 161...		
Optional accessory:			
Type of Protection:	Flameproof enclosures "d", increased safety "e"		
Marking:	Ex db eb IIC T6 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Thomas Heinen

Position:

Deputy Head of IECEx Certification Body

Signature:
(for printed version)

Date:
(for printed version)

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: **Baumer Germany GmbH & Co. KG**
Bodenseeallee 7
78333 Stockach
Germany

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

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

[DE/TUN/ExTR12.0036/00](#)
[DE/TUN/ExTR12.0036/03](#)

[DE/TUN/ExTR12.0036/01](#)

[DE/TUN/ExTR12.0036/02](#)

Quality Assessment Report:

[DE/TUN/QAR11.0011/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The incremental encoder type EExHOG 161... is used for measuring the rotating speed of rotating electrical machines. It consists of a housing in the type of protection flameproof enclosures "d" with a terminal box in the type of protection increased safety "e".

Technical data

Permitted range of ambient temperature without shaft sealing (drawing no. 74141C)	-20 °C to +66 °C
Permitted range of ambient temperature with shaft sealing (drawing no. 74140C)	-20 °C to +58 °C
Maximum speed	5600 1/min
Rated voltage	to 30 V
Rated current without ballast	to 100 mA

Table of certified components:

Subject	Type	Marking	Certification number	Standard with date
Line bushing	07-91**_****/****, 57-91**_*****	Ex db IIC GbEx db I Mb	EPS 13 ATEX 1 619 U	EN IEC 60079-0:2018EN 60079-1:2014
			IECEX EPS 13.0045U	IEC 60079-0:2017IEC 60079-1:2014
PCB Single Terminal Blocks	FRONT 2,5-H/...-EX, FRONT 2,5-V/...-EX	Ex eb IIC Gb	IECEX KEM 07.0023U	IEC 60079-0:2017EC 60079-7:2017
PCB Terminal	Blocks Types SPT 2,5/...-H-5,0-EX..., SPT 2,5/...-H-EX PROFINET..., SPT 2,5/... V 5,0 EX..., SPT 2,5/...-V-EX PROFINET...	Ex eb IIC Gb	IECEX KEM 07.0057U	IEC 60079-0:2017EC 60079-7:2017

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Repairs may only be carried out by the manufacturer.
- The permitted range of ambient temperature is -20 °C to +58 °C and -20 °C to +66 °C. The valid ambient temperature is stated in the operating instructions.
- The hexagon socket screws M4 x 16 and M5 x 20 have the property class 8.8.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 3:

The name and the address of the manufacturer has changed.