

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:

IECEx EPS 14.0042X

Issue No: 1

Certificate history:

Status:

Current

Issue No. 1 (2017-09-01) Issue No. 0 (2014-07-02)

Date of Issue:

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2017-09-01

Applicant:

BARTEC GmbH Max-Eyth-Str. 16 97980 Bad Mergentheim

Germany

Equipment:

Miniature / Control and Display Unit, type 07-61**-**** and type 07-662*-****/****

Optional accessory:

Type of Protection:

d, e, i, t, op is

Marking:

Ex db eb op is ia/ib [ib] IIC T6...T4 Gb Ex db eb op is ia/ib [ia Ga] IIC T6...T4 Gb Ex tb op is ia/ib [ib] IIIC T80°C, T95°C, T130°C Db Ex tb op is ia/ib [ia Da] IIIC T80°C, T95°C, T130°C Db

Approved for issue on behalf of the IECEx

Certification Body:

Holger Schaffer

Position:

Signature:

(for printed version)

Date:

Certification Manager

2017-09-01

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:

Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 86842 Türkheim Germany





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Manufacturer:

BARTEC GmbH Max-Eyth-Str. 16

97980 Bad Mergentheim

Germany

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

Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-1: 2014-06

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

IEC 60079-11: 2011

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

IEC 60079-28: 2015

Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

Edition:2

IEC 60079-31: 2013

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

IEC 60079-7: 2015

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition:5.0

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/EPS/ExTR14.0043/00

DE/EPS/ExTR14.0043/01

Quality Assessment Report:

DE/TUN/QAR06.0017/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

SPECIFIC CONDITIONS OF USE: YES as shown below:

When operated at ambient temperatures below -20 °C, different variants of viewing windows can be used if a protected installation is ensured by the construction in accordance with the requirements of IEC 60079-0, section 26.4.2.



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

Rev. 1: Update of standards, Update of minimum ambient temperature, Update of enclosure sizes

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IECEx EPS 14.0042 issue 1 - Annex.pdf



Annex to Certificate IECEx EPS 14.0042 Issue No.: 1



Electrical data:

Rated insulating voltage:

Type 07-61*2-***/****.... up to 1100 V

Type 07-61*1-****/**** & 07-662*-****/****: up to 690 V

Rated current max. 21 A

Conductor size..... max. 2,5 mm²

Dimensions in mm (Diameter, length)			Power dissipation in W for	
			T6	T5
07-6111	Ø 30	L ≥ 55 ¹⁾	2,5	3
07-6622	Ø 30	L ≥ 55 ¹⁾	2,5	-
07-6623	Ø 30	L ≥ 55 ¹⁾	-	3
07-6121	Ø 45	L ≥ 55 ¹⁾	2,5	3
07-6121	Ø 45	L ≥ 90 ¹⁾	5	6
07-6624	Ø 45	L ≥ 55 ¹⁾	5	-
07-6625	Ø 45	L ≥ 55 ¹⁾	-	6
07-6131	Ø 60	L ≥ 60 ¹⁾	5	6
07-6131	Ø 60	L ≥ 90 ¹⁾	7	8
07-6626	Ø 60	L ≥ 55 ¹⁾	7	-
07-6627	Ø 60	L ≥ 55 ¹⁾	-	8
07-6132	Ø 60	60 ≤ L < 90	5	6
07-6132 07-6142	Ø 60 Ø 90	90 ≤ L > 135 ²⁾ 40 ≤ L < 140	7	8
07-6142 07-6152	Ø 90 Ø 120	140 ≤ L ≤ 250 75 ≤ L < 200	16	18
07-6142	Ø 90	L > 250 ⁻²⁾	23	26
07-6152	Ø 120	200 ≤ L ≤ 370	30	34
07-6152	Ø 120	L > 370 ²⁾	40	45
07-6163	Ø 140	L > 400	40	45
07-6173	Ø 160	L > 400	40	45



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07-6183	Ø 180	L > 400	40	45	
07-6193	ø 200	L > 400	80	100	
The powe	r dissipa	tion values refer to an am	bient temperature of +40 °C.		

 $^{^{1)}}$ The nominal value of the enclosed volume is smaller than 25 cm³ (Ø 30 mm), 100 cm³ (Ø 45 mm) and 100 cm³ (Ø 60 mm). The length may exceed the given value only if the internal electrical device compensates for the increase of volume. The gaseous part (remaining free space) of the enclosed volume is kept at 1/3 minimum.

In case of reduced power dissipation, ambient temperatures beyond +40 °C are acceptable.

The rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values and complying with the appropriate standards, the manufacturer specifies the final limiting values depending on power supply specifications, operating mode, utilization category etc. Any additional technical features are specified in the test documents.

The composition of the Ex marking will be based on the types of protection of the components actually used.

 $^{^{2)}}$ The nominal value of the enclosed volume is 200 cm³ (Ø 60 mm and L = 135 mm), 1000 cm³ (Ø 90 mm and L = 250 mm) and 2750 cm³ (Ø 120 mm and L = 370 mm). The length may exceed the given value only if the internal electrical device compensates for the increase of volume. The gaseous part (remaining free space) of the enclosed volume is kept at 1/3 minimum.