



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 EPS 17.0050X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-04-01

Applicant: **BARTEC GmbH**
Max-Eyth-Straße 16
D – 97980 Bad Mergentheim
Germany

Equipment: **Line bushing: Type 07-920*.****/**** to 07-924*.****/**** Line Entry**

Optional accessory:

Type of Protection: **db, tb**

Marking: Ex db IIC T6,T5,T4 Gb
Ex tb IIIC T80°C,T95°C,T110°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:

Holger Schaffer

Certification Manager

2020-04-07



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:

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





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Date of issue: 2020-04-01

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Manufacturer: **BARTEC GmbH**
Max-Eyth-Straße 16
D – 97980 Bad Mergentheim
Germany

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

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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

TEST & ASSESSMENT REPORTS:

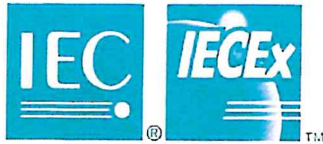
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/EPS/EXTR17.0093/00

Quality Assessment Report:

DE/TUN/QAR06.0017/11



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Line Entry Type 07-920*-****/**** to 07-924*-****/**** is for the insertion of hose lines into flameproof enclosure "Ex d".

For additional rating information see attached file "IECEX EPS 17.0050 X - Annex Equipment Ratings"

SPECIFIC CONDITIONS OF USE: YES as shown below:

- If line entries with threads are screwed into threaded holes, then the holes must comply with the minimum requirements specified in IEC 60079-1, section 5.3 (Table 4).

- The line entries must be attached to the electrical device in such a way that they cannot get lost or twisted.

- The hose line of the line entries must be inserted into enclosures that comply with a type of protection as detailed in IEC 60079-0 section 1.

- If temperature allocations that differ from the ones specified in this design test certificate are used, the operating conditions of the line entries are to be specified in the type test of the respective electrical equipment.

- The hose line's quality must be selected in such a way that it meets the thermal and mechanical requirements in their area of operation.

Annex:

IECEX EPS 17.0050 X - Annex Equipment Ratings.pdf



Description of equipment:

The Line Entry Type 07-920*-****/**** to 07-924*-****/**** is for the insertion of hose lines into flameproof enclosure "Ex d".

Electrical data:

Type No.	07	-	9	2	*	*	-	*	*	*	*	/	*	*	*	*
Key No	A		B	C	D	E		F	G	H	I		J	K	L	M

Key	Code number for	Variations	Description
A, B, C	Line entry	07-92	
D	Sleeve design and kind of thread	0 1 2 3 4	screw thread, metric screw thread, differing to metric, e.g. NPT screw thread, differing to metric e.g. WWR screw thread, metric special types screw thread, differing to metric, e.g. Pg thread
E	Cable design	0 1 2 3 4 5 6 7 8	Special cables Rubber hose cable up to 1,140 V PVC- hose cable up to 1,000V Rubber hose cable up to 1,000 V, increased temp. range Rubber hose o 500 V Rubber hose cable up to 500 V Rubber hose cable up to 750 V Hose cable up to 300 V for intrinsically safe circuits Hose cable with screen resp. braiding up to 1,000 V
F	Wire cross-section	A B D F H K M P R T V Z	Special cross-section between B to W (e.g. AWG) 0.14 – 0.2 mm ² C 0.25 – 0.3 mm ² 0.34 – 0.35 mm ² E 0.5 mm ² 0.75 mm ² G 1 mm ² 1.5 mm ² J 2.5 mm ² 4 mm ² L 6 mm ² 10 mm ² N 16 mm ² 25 mm ² Q 35 mm ² 50 mm ² S 70 mm ² 95 mm ² U 120 mm ² 150 mm ² W 185 mm ² mixed
G, H	Design and number of wires at hose line	Hose line with xx wire (which steps (which into the resin on sleeve side): xx: 01 1 wire 02 2 wires up to 49 49 wires Hose line with zz continuous wires: A1, A2 ... A9 1, 2 ... 9 wires B1, B2 ... B9 11 – 19 wires C1, C2 ... C9 21 – 29 wires D1, D2 ... D9 31 – 39 wires E1, E2 ... E9 41 – 49 wires	Hose line with yy wires steps into the resin on boss side): yy: 51 1 wire 52 2 wires up to 99 49 wires A0 10 wires B0 20 wires C0 30 wires D0 40 wires
I	Size of sleeve	1 3 5	M16x1 M33x1.5 M38x1.5
		2 4 6	M24x1.5 M36x1.5 M42x1.5



Annex to Certificate
(Equipment Rating)
IECEx EPS 17.0050 X Issue No.: 0



		7 M48x1.5	8 M56x1.5
		D M16x1.5	E M20x1.5
		F M25x1.5	G M32x1.5
		L M40x1.5	R M64x1.5
		S M72x1.5	9 Special size
		respective NPT-, WWR- and Pg-sizes	
K	Design (and Ex marking)	A Stripped BARTEC green	B Stripped Huntsman CW1302
		D pressure-sealed, -0,9 to 80 bar (for GAS)	E pressure-sealed, -0,9 to 80 bar (for GAS S DUST)
		U pressure-sealed, -0,5 to 6 bar (for GAS)	V pressure-sealed, -0,5 to 6 bar (for GAS S DUST)
		X Standard (for GAS)	Y Standard (for GAS % DUST)
J, L, M	Number or letter for characteristics without influence on the explosion protection		

Rated voltage ⁽¹⁾ :	300 V up to 1140 V
Rated current ⁽¹⁾ :	1.8 A up to 347 A
Rated cross section area ⁽¹⁾ :	0.14 mm ² up to 185 mm ²
Ambient Temperature	Ta min- Ta max- Temperature class Notes
	-60 °C 40 °C T6 When using hose line with temperature range -60 °C ≥ T ≥ 80 °C
	-60 °C 55 °C T5 When using hose line with temperature range -60 °C ≥ T ≥ 95 °C
	-60 °C 70 °C T4 When using hose line with temperature range -60 °C ≥ T ≥ 110 °C
Max. operating temperature at the place of installation of the line entry in normal operation (1):	-60 °C ≤ Ts ≤ 110 °C
Type of thread dimension (1):	M16 x 1 up to M72 x 1.5 (Respective e.g. NPT-, WWR- and Pg-sizes)
Number of wires (1):	0 ... 49
Static test pressure (type tested) (1):	30 bar – 48.6 bar

(1): depending on used hose line

Special consideration has to be taken of the machine's own heat and the heat of the electrical equipment in the place of operation at the maximum permitted ambient temperature, while at the same time complying with the operating temperatures of the cast resin and the conduction qualities.