

## EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(3) EU - Type Examination Certificate Number

**EPS 17 ATEX 1 099 X**

**Revision 0**

(4) Equipment: Line bushing: Type 07-920\* -\*\*\*\*/\*\*\*\* to 07-924\* -\*\*\*\*/\*\*\*\* Line Entry

(5) Manufacturer: BARTEC GmbH

(6) Address: Max-Eyth-Straße 16  
97980 Bad Mergentheim  
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 17TH0307.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**


**EN 60079-1:2014 + AC:2018**

**EN 60079-31:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 II 2G Ex db IIC T6,T5,T4 Gb

 II 2D Ex tb IIIC T80°C,T95°C,T110°C Db



Certification department of explosion protection

Hamburg, 2020-04-07

H. Schaffer





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(13)

## Annex

(14) **EU - Type Examination Certificate EPS 17 ATEX 1 099 X**

**Revision 0**

(15) 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

Ziffer	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 <sup>2</sup> 0.34 – 0.35 mm <sup>2</sup> 0.75 mm <sup>2</sup> 1.5 mm <sup>2</sup> 4 mm <sup>2</sup> 10 mm <sup>2</sup> 25 mm <sup>2</sup> 50 mm <sup>2</sup> 95 mm <sup>2</sup> 150 mm <sup>2</sup> mixed
G, H	Design and number of wires at hose line	Hose line with xx wire (which steps 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 (which 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

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I	Size of sleeve	1	M16x1	2	M24x1.5		
		3	M33x1.5	4	M36x1.5		
		5	M38x1.5	6	M42x1.5		
		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 \$ DUST)						
U	pressure-sealed, -0,5 to 6 bar (for GAS)						
V	pressure-sealed, -0,5 to 6 bar (for GAS \$ 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 <sup>(1)</sup> :	300 V up to 1140 V			
Rated current <sup>(1)</sup> :	1.8 A up to 347 A			
Rated cross section area <sup>(1)</sup> :	0.14 mm <sup>2</sup> up to 185 mm <sup>2</sup>			
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.

(16) Reference number: 17TH0307



(17) Special conditions for safe use:

- 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.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Hamburg, 2020-04-07



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