Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) EU-TYPE EXAMINATION CERTIFICATE

(Translation)

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 11 ATEX 1016 X **Issue: 01**

(4) Product: Junction Box type 07-5101-****/**** und 07-5102-****/****

(5) Manufacturer: BARTEC-VARNOST d.o.o.

(6) Address: Cesta 9. Avgusta 59, 1410 Zagorje ob Savi, Slovenia

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 20-18087.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

II 2 G Ex eb ia/ib IIA, IIB, IIC T6, T5 Gb, Ex ia/ib IIA, IIB, IIC T6, T5 Gb

II 2 D Ex tb IIIC T80°C, T95°C Db, Ex ia/ib IIIC T80°C, T95°C Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, January 10, 2020
On behalf of PTB:

Dr.-Ing. D. Markus
Direktor und Professor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 80

ZSEx001e c

(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 11 ATEX 1016 X, Issue: 01**

(15) Description of Product

The junction box, types 07-5101-****/**** und 07-5102-****/****, consists of aluminium enclosures which are designed to type of protection Increased Safety "eb" and Protection by Enclosure "tb". They are provided with inspection windows and cable entries.

The junction box of type 07-5101-****/**** houses terminals in the type of protection Increased Safety "e" and, optionally, terminals for circuits in the type of protection Intrinsically Safety "ia/ib". The latter are separated from the terminals in the type of protection Increased Safety "e" and are marked, e.g. by a light-blue colour, for clear identification.

The junction box of type 07-5102-****/**** houses terminals for intrinsically safe circuits only.

Connection is by means of Ex-type cable glands. The empty enclosure and all components have been tested and certified under a separate examination certificate.

Technical data

Sizes	Length	Width	Height
min.	58 mm	64 mm	36 mm
max.	600 mm	310 mm	180 mm

Rated voltage*	up to 1100 V
Rated current*	max. 500 A
Rated cross section*	max. 300 mm^2
*) depending on the type of terminal used	
Ambient temperature, depending on temperature class, gasket and inspection window With silicon gasket, without inspection window -55 °C to +40 °C, T6, T80 °C -55 °C to +55 °C, T5, T95 °C and variant "Ex ia/ib IIC T6" With EPDM gasket or inspection window -25 °C to +40 °C, T6, T80 °C -25 °C to +55 °C, T5, T95 °C and variant "Ex ia/ib IIC T6"	

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 11 ATEX 1016 X, Issue: 01

Rated voltage*	up to 230 V
Rated current*	max. 3 A
Rated cross section*	max. 0.75 mm²
*) depending on the type of terminal used	
Ambient temperature, depending on temperature class, gasket and inspection window With silicon gasket, without inspection window -55 °C to +65 °C, T5, T95 °C With EPDM gasket or inspection window -25 °C to +65 °C, T5, T95 °C	

Ingress Protection IP 66 according to IEC 60529
Surface resistance Inspection window: > 10^14 Ohm

General notes

The ratings specified are maximum values, actual values will be subject to the explosion-proof equipment used from case to case. Depending on the system conditions, the manufacturer will define the definitive ratings which will be within the range of these limiting values and will comply with the relevant standards.

The admissible temperature range of the installed elements must not be exceeded.

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

Nomenclature

07-	5	1	**-	***	*/**	**
1	2	3	4	5	6	7

1: Type number
2: Number for installation material
3: Number for junction box
4: Number for intended purpose
   01 = Stromkreise in der Zündschutzart Erhöhte Sicherheit "e"
   02 = Stromkreise in der Zündschutzart Eigensicherheit "ia/ib"
5: Number for length
   min. 058 = 58 mm, max. 600 = 600 mm
6: Number for width
   min. 064 = 64 mm, max. 310 = 310 mm
7: Number for height
   min. 36 = 36 mm, max. 180 = 180 mm

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 11 ATEX 1016 X, Issue: 01

Changes with respect to previous editions

New test according to the standards EN IEC 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-11:2012 and EN 60079-31:2014.

(16) Test Report PTB Ex 20-18087

(17) Specific conditions of use

The junction box must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

For windows with a surface resistance >10^9 Ohm exist potential electrostatic charging hazard. These enclosures have to be equipped with following marking:
"Warning – potential electrostatic charging hazard. Only wet cleaning. See instructions"

At a temperature of more than +60 °C heat resistant cables have to be used.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz — Braunschweig, January 10, 2020
On behalf of PTB:

Dr.-Ing. D. Markus
Direktor und Professor