



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 11 ATEX 1016 X

(4) Equipment: Junction box, types 07-5101-****/**** and 07-5102-****/****

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

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

(7) This equipment and any acceptable variation thereto are 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 9 of the Council Directive 94/9/EC of 23 March 1994, 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 to the Directive.

The examination and test results are recorded in the confidential assessment and test report PTB Ex 11-11114.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN 60079-0:2009, EN 60079-7:2007, EN 60079-11:2007, EN 60079-31:2009**

(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 schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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


 **II 2 G Ex e ia/ib IIA, IIB, IIC T6 or T5 Gb**

 **II 2 D Ex tb IIIC T80°C, T95°C Db IP66**

Zertifizierungssektor Explosionsschutz

On behalf of PTB:

Braunschweig, June 1, 2011


Dr.-Ing. U. Klausmeyer
Direktor und Professor



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1016 X

(15) Description of equipment

The junction box, type 07-5101-****/**** and 07-5102-****/****, is an aluminium enclosure that is designed to Increased Safety "e" and Protection by Enclosure "tb" type of protection provided with cable entries.

The junction box, type 07-5101-****/****, houses explosion-proof cable entries, terminals of Increased Safety "e" type of protection and - if required - terminals for intrinsically safe circuits. The latter are separated from the terminals of Increased Safety "e" and are marked, e.g. by a light-blue colour, for clear identification.

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

All components have been tested and certified under a separate examination certificate.

Technical data

Rated voltage*	..... up to	1100 V
Rated current*	..... max.	500 A
Rated cross section*	..... max.	300 mm ²

*) depending on the type of terminal that is used

Ambient temperature	subject to temperature class
	-55 °C to +40 °C, T6
	-55 °C to +55 °C, T5 and with the
	Ex ia/ib IIC T6 version

Rated voltage*	..... up to	230 V
Rated current*	..... max.	3 A
Rated cross section*	..... min.	0.75 mm ²

*) depending on the type of terminal that is used

Ambient temperature -55 °C to +65 °C, T5

Protection against contact, foreign bodies and water: IP66 according to EN 60529

Rated values are maximum values, the actual electrical 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 "ia" or "ib" symbols for the type of protection and the "IIA", "IIB" or "IIC" symbols are used, if the junction box houses intrinsically safe category "ia" or "ib" circuits of associated equipment, and circuits for use in groups "IIA", "IIB" or "IIC" and / or category "ia" or "ib" circuits of intrinsically safe electrical equipment and circuits for use in groups "IIA", "IIB" or "IIC".

The permissible temperature range for the installed elements must not be exceeded.

The composition of the protection symbol depends on the types of protection of the components actually used.

(16) Assessment and Test Report PTB Ex 11-11114

(17) Special conditions for safe use

The junction box must not be used in areas that are affected by high 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 of $>10^9$ Ohm there is a risk of electrostatic discharge. The enclosure must therefore carry the following warning:

"WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD. Only wet cleaning. SEE INSTRUCTIONS".

The maximum number of conductors for each enclosure size, which is subject to the cross section and the permissible continuous current, is shown in the supplements.

Terminals for intrinsically safe circuits shall be installed so that the clearances and creepage distances between intrinsically safe and non-intrinsically safe circuits, and/or different intrinsically safe circuits, and between a circuit and earth, which are specified in EN 60079-11, are maintained.

When connecting more than one intrinsically safe circuit, the rules and regulations for interconnection must be observed.

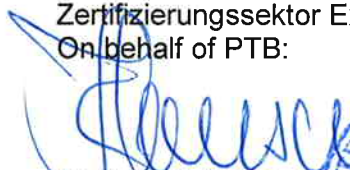
The EC-Type-Examination Certificate and future supplements shall at the same time be considered as supplements for EC-Type-Examination Certificate PTB 08 ATEX 1065.

(18) Essential health and safety requirements

Met by compliance with the afore-mentioned Standards.

Zertifizierungssektor Explosionsschutz
On behalf of PTB:



Braunschweig, June 1, 2011


Dr.-Ing. U. Klausmeyer
Direktor und Professor



1st SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1016 X
(Translation)

Equipment: Junction box, type 07-5101-****/**** and 07-5102-****/****

Marking:  **II 2 G Ex e ia/ib IIA, IIB, IIC T6 and T5 Gb**
 **II 2 D Ex tb IIC T80°C, T95°C Db IP66**

Manufacturer: BARTEC-VARNOST d.o.o.

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

Description of supplements and modifications

The junction box, type 07-5101-****/**** and 07-5102-****/**** has been re-examined on the basis of standards EN 60079-0:2012, EN 60079-7:2007, EN 60079-11:2012 and EN 60079-31:2014. The marking therefore changes to:

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

 **II 2 D Ex tb IIC T80°C, T95°C Db**

Technical data

Rated voltage*	..... up to	1100 V
Rated current*	..... max.	500 A
Rated cross section*	..... max.	300 mm ²

*) depending on the type of terminal that is used

Ambient temperature	subject to temperature class
	-55 °C to +40 °C, T6
	-55 °C to +55 °C, T5 and with the
	Ex ia/ib IIC T6 version

Rated voltage*	..... up to	230 V
Rated current*	..... max.	3 A
Rated cross section*	..... min..	0.75 mm ²

*) depending on the type of terminal that is used

Ambient temperature	..... -55 °C to +65 °C, T5
Degree of protection	..... IP 66 according to EN 60529

1st SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 11 ATEX 1016 X

Rated values are maximum values, the actual electrical values are determined by mounted 'Ex' components. Within these limiting values complying with the appropriate standards the manufacturer shall specify the final limiting values dependent on power supply specifications.

The "ia" or "ib" symbols for the type of protection and the "IIA", "IIB" or "IIC" symbols are used, if the junction box houses intrinsically safe circuits of category "ia" or "ib" for the corresponding equipment and for use in groups "IIA", "IIB" or "IIC", and/or circuits for intrinsically safe electrical equipment of category "ia" or "ib" and for use in groups "IIA", "IIB" or "IIC".

The permissible temperature range for the installed elements must not be exceeded.

The composition of the protection symbol depends on the types of protection of the components actually used.

Special conditions for safe use

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

For the window with a surface resistance of $>10^9$ ohms there is a risk of electrostatic discharge. The junction box must therefore carry the following warning:

"Warning! Risk of electrostatic discharge. Only clean with moist cloth. See instructions for operation."

The maximum number of conductors for each enclosure size, which is subject to the cross section and the permissible continuous current, is shown in the supplements.

Terminals for intrinsically safe circuits shall be installed so that the clearances and creepage distances between intrinsically safe and non-intrinsically safe circuits, and/or different intrinsically safe circuits, and between a circuit and earth, which are specified in EN 60079-11, are maintained.

When connecting more than one intrinsically safe circuit, the rules and regulations for interconnection must be observed.

Applied standards

EN 60079-0:2012, EN 60079-7:2007, EN 60079-11:2012, EN 60079-31:2014

Test report: PTB Ex 15-15014

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, June 22, 2015

On behalf of PTB:


Dr.-Ing. U. Klausmeyer
Direktor und Professor



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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.