



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx PTB 11.0087U Issue No: 1 Certificate history:
Status: Current Page 1 of 4 Issue No. 1 (2015-02-09)
Date of Issue: 2015-02-09 Issue No. 0 (2011-10-05)
Applicant: BARTEC GmbH
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany
Electrical Apparatus: Control component "switching terminal" type 07-7311-613*/****
Optional accessory:
Type of Protection: db, e
Marking: Ex db e IIC Gb
Ex db e | Mb

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Uwe Klausmeyer

Position:

Head of department "Explosion Protection in Energy Technology"

Signature:
(for printed version)

Date:

17.03.2015

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](http://www.iecex.com).

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: BARTEC GmbH
Max-Eyth-Straße 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/PTB/ExTR11.0096/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The control component "switching terminal" type 07-7311-613*/**** is used as auxiliary circuit switch for signal and control circuits as well as for the safe disconnection of parts of a system with position indicating device. The control component "switching terminal" may be rail mounted.

The connection is carried out by incorporated terminals.

For further informations refer to the attachment.

CONDITIONS OF CERTIFICATION: NO



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

The Control Module "switching terminal" type 07-7311-613*/**** was verified with respect to the state of the art of the standards.

The withstand temperature is limited to 100 ° C.

All other data remain unchanged.

Annex:

[Description and conditions of use BARTEC_07-7311-613.pdf](#)

Description	BARTEC
	09.01.2015
Control Component "Switching Terminal"	01-7311-6B0005_V1
Type 07-7311-613*/****	Page 1/2

Description of equipment

The control component "Switching Terminal" type 07-7311-613*/**** is used as auxiliary circuit switch for signal and control circuits as well as for the safe disconnection of parts of a system with position indicating device. The control component "Switching Terminal" may be rail mounted.

The connection is carried out by incorporated terminals.

Technical data

Rated insulation voltage, up to	500V		
Rated operational voltage up to	30V	250V	250V
Rated current I _a max.	7A	0,15A	4A
Utilization category	DC-13	DC-13	AC-15
Dissipation Power	T5	T6	
	at T _a 40°C max.	7A	8A
	at T _a 50°C max.	6A	7A
	at T _a 60°C max.	5A	6A
	at T _a 75°C max.	2A	5A
Rated cross-sectional area max.	2,5 mm ²		
Contacts provided	2 positive opening operations		
Ambient temperature range	-40°C... +40°C, 50°C, 60°C or 75°C		
Max. withstand temperature	100°C		
Temperature classification	T6 and T4		

In accordance with the relevant provisions, rated values other than those stated above are permissible if the making and breaking capacity is complied with; they have been specified by the manufacturer as a function of the mode of operation, utilization category, etc.

Model / type code

Type nr.	07	-	7	3	1	1	-	6	1	3	*	/	*	*	*	*
Code Nr.	A		B	C	D			E	F	G	H		I	J	K	L

<u>Ziffer</u>	<u>Ziffer für:</u>	<u>Variatio- nen:</u>	<u>Beschreibung</u>
A	Base program	07	ExCo
B	Component	73	Modular built-in devices
C	Terminal	1	Rail mounted terminals
D	Design	1	(First Design)
E	Enclosure type	6	Length 61 mm
F	Dimensions	1	Width 15 mm
G	Built-in devices	3	Control switch
H	Actuation type	1	Rocker
		2	Slider
I - L	Letters with no influence on the explosion protection type		

Description	BARTEC
	09.01.2015
Control Component "Switching Terminal"	01-7311-6B0005_V1
Type 07-7311-613*/****	Page 2/2

Special Conditions of Use

The control component "Switching Terminal" is to be installed in an enclosure which complies with the requirements of a recognized type of protection according to IEC 60079-0, section 1.

If the control component "Switching Terminal" is installed in an enclosure of the type of protection increased safety "e" according to IEC 60079-7, the creepage distances and clearances must be complied with in accordance with section 4.3, section 4.4 Table 1.

The component may be used in both group I and II, as in this case the requirements of the standard are identical.

Routine Check Test

The relevant routine checks are explained in the document 01-7311-6S0003.

It is not necessary to carry out the routine test according to IEC 60079-1 section 16.1.1, as the volume of the built-in switch component is smaller than 10 cm³ and, according to section 16.2, enclosures with a volume of 10 cm³ or less are exempted from the routine test.