



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 11.0086U	Issue No: 1	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 1 (2015-02-10) Issue No. 0 (2011-10-05)
Date of Issue:	2015-02-10		
Applicant:	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany		
Electrical Apparatus:	Control component type 07-7311-61**/****		
Optional accessory:			
Type of Protection:	db, e		
Marking:	Ex db e IIC Gb Ex db e I 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:

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/ExTR11.0100/01](#)

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 type 07-7311-61**/**** in a flameproof enclosure is used to control, switch and indicate electrical circuits. It is permissible to install control elements such as plungers and axles and light elements for signal and indicator displays. Connection is established on the integrated terminals. The control component is snapped on to rails and several may be mounted in a row.

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 type 07-7311-61**/**** was verified with respect to the state of the art of the standards.

The withstand temperature is limited to 100 ° C.

The enclosure is only completely filled with glass beads Ø 0.75 mm.

All other data remain unchanged.

Annex:

[Description and conditions of use BARTEC 07-7311-61.pdf](#)

Description	BARTEC
	09.01.2015
Control Component	01-7311-6B0004_V1
Type 07-7311-61**/****	Page 1/2

Description of equipment

The control component type 07-7311-61**/**** in a flameproof enclosure is used to control, switch and indicate electrical circuits. It is permissible to install control elements such as plungers and axles and light elements for signal and indicator displays. Connection is established on the integrated terminals. The control component is snapped on to rails and several may be mounted in a row.

Technical data

Rated voltage, up to	500V			
Dissipation Power	16mm Clearance	8mm Clearance	Several in Row	
	for T6 at Ta 40°C max.	1,4 W	1,3 W	0,8 W
	for T6 at Ta 60°C max.	1,4 W	1,3 W	0,8 W
	for T4 at Ta 65°C max.	0,7 W	0,6 W	0,4 W
	for T4 at Ta 85°C max.	0,7 W	0,6 W	0,4 W
Rated cross-sectional area max.	2,5 mm ²			
Max. number of terminals	2 to 4			
Ambient temperature range	-40°C... +40°C, 60°C, 65°C or 85°C			
Max. withstand temperature	100°C			
Temperature classification	T6 to T4			

The rated voltage, rated current and — in the case of switchgear — the utilisation category depend on the elements that have been built in and are set by the manufacturer.

Model / type code

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

<u>Code:</u>	<u>Code for:</u>	<u>Variations:</u>	<u>Description</u>
A	Main program	07	ExCo
B	Component	73	Modular built in devices
C	Terminal	1	Rail mounted terminals
D	Design	1	First design
E	Enclosure size	6	Length 61 mm
F	Frame size	1	Width 15 mm
G	Built in devices	0-2 4-9 A-Z	
H - L	Code without influence of the explosion protection		

Description	BARTEC
	09.01.2015
Control Component	01-7311-6B0004_V1
Type 07-7311-61**/****	Page 2/2

Special Conditions of Use

The control component is to be fitted in an enclosure complying with an approved explosion protection type in accordance with EN 60079-0 section 1.

When fitted in an enclosure of explosion protection type "e" increased safety in accordance with EN 60079-7, the clearance and creepage distances in accordance with section 4.4, section 4.5 and Table 1 must be met.

The component is suitable for use in both Group I and Group II, as the requirements of the standards are identical in this case.

The enclosure of the control component must be filled up completely with glass beads with a diameter of \varnothing 0.75 mm.

Routine Check Test

The relevant routine checks are explained in the document 01-7311-6S0002.

It is not necessary to carry out the routine test according to IEC 60079-1:2014 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.