



(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 99 ATEX 1020 U



(4) Component: Control component "switching terminal"
type 07-7311-613./....

(5) Manufacturer: BARTEC Componenten und System GmbH

(6) Address: D-97980 Bad Mergentheim

(7) This component 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 component 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 report PTB Ex 99-18017.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50 014:1997 EN 50 018:1994 EN 50 019:1994

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

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

II 2 G EEx de IIC IM 2 EEx de I

Zertifizierungsstelle Explosionsschutz

Braunschweig, June 14, 1999

By order:

Dr.-Ing. U. Klausmeyer
Oberregierungsrat



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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.

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1020 U

(15) Description of component

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 butt-mounted.

The connection is carried out by incorporated terminals.

Technical data

Rated insulation voltage	up to	550 V		
Rated operational voltage.....	up to	30 V	250 V	250 V
Rated current I_B	max.	7 A	0,15 A	4 A
Utilization category		DC-13	DC-13	AC-15

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.

contacts provided 2 positive opening operations

Temperature class	T6			
for ambient temperatures max.	40 °C	50 °C	60 °C	75 °C
at a rated thermal current of	7 A	6 A	5 A	2 A
Temperature class	T5			
for ambient temperatures max.	40 °C	50 °C	60 °C	75 °C
at a rated thermal current of	8 A	7 A	6 A	5 A

The control component "switching terminal" has been designed for thermal stability between -40 °C and 120 °C.

Rated wire range 2,5 mm²

(16) Report PTB Ex 99-18017, description (6 sheets) 3 drawings, parts list (2 sheets)

(17) Special conditions for safe 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 EN 50 014, section 1.2.

If the switch component is installed in an enclosure of the type of protection increased safety "e" according to EN 50 019, the creepage distances and clearances must be complied with in accordance with section 4.3, section 4.4 and Table 1.

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

This EC-Type-Certificate and future supplements also serve as supplements to component certificate PTB No. Ex-91.C.1013 U.

Routine test

It is not necessary to carry out the routine test according to EN 50 018 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.

(18) Essential health and safety requirements

The tests carried out and their positive results show that the control component "switching terminal" with shorter gap length meets the requirements of the directive 94/9/EG. It meets the requirements of the standards indicated on the cover sheet with the exception of the shorter gap length.

Zertifizierungsstelle Explosionsschutz

Braunschweig, June 14, 1999

By order:



Dr.-Ing. U. Klausmeyer
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1. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1020 U

(Translation)

Equipment: Control component "switching terminal"
type 07-7311-613./....

Marking:  II 2 G EEx de IIC
 I M2 EEx d e I

Manufacturer: BARTEC GmbH

Address: Max-Eyth-Straße 16
97980 Bad Mergentheim, Germany

Description of supplements and modifications

1. According to the technical documentation, the use of alternative plastics materials is possible.
A change of the type designation of the enclosure material Ultramid KR4455 in Ultramid B3UGM2010 resp. Badamid LB70GF/M60 FR HF is effected.

All other data remain unchanged.


Applied standards

EN 60079-0:2009

EN 60079-1:2007

EN 60079-7:2007

Due to the use of the above-mentioned standards, the marking changes as follows:

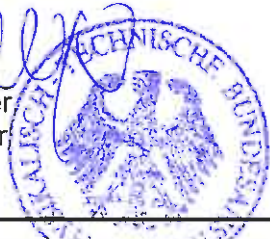
 II 2 G Ex d e IIC Gb
 I M2 Ex d e I Mb

Assessment and test report: PTB Ex 11-11275

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, October 26, 2011

Dr.-Ing. U. Klausmeyer
Direktor und Professor



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1. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1020 U

(Translation)

Equipment: Control component "switching terminal"
type 07-7311-613./....

Marking:  II 2 G EEx de IIC
 I M2 EEx d e I

Manufacturer: BARTEC GmbH

Address: Max-Eyth-Straße 16
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Description of supplements and modifications

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A change of the type designation of the enclosure material Ultramid KR4455 in Ultramid B3UGM2010 resp. Badamid LB70GF/M60 FR HF is effected.

All other data remain unchanged.



Applied standards

EN 60079-0:2009

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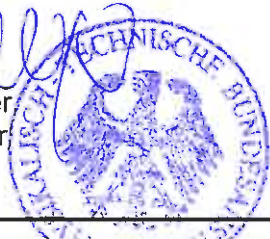
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Assessment and test report: PTB Ex 11-11275

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2 SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1020 U
(Translation)

Equipment: Control Module "switching terminal" type 07-7311-613*/****

Marking:  II 2 G Ex db e IIC Gb
 I M 2 Ex db e I Mb

Manufacturer: BARTEC GmbH

Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany

Description of supplements and modifications

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.

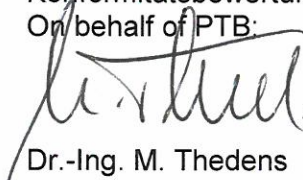
Applied standards

EN 60079-0:2012, EN 60079-1:2014, EN 60079-7:2007

Test report: PTB Ex 14-34289

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, February 6, 2015


Dr.-Ing. M. Thedens
Oberregierungsrat



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