Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

(1) **EC-Type-Examination Certificate**
(Translation)

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

(3) EC-Type-Examination Certificate Number:

PTB 98 ATEX 1010 U

(4) Equipment: Control component type 07-7311-61../....

(5) Manufacturer: BARTEC Componenten und Systeme GmbH

(6) Address: D-97980 Bad Mergentheim

(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/EEC 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 report PTB Ex 97-17126

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

EN 50014: 1997 **EN 50018: 1994** **EN 50019: 1994**

(10) If the sign "U" is placed after the certificate number it indicates that this certificate must not be confused with a certificate designated for a device or protective system. This partial certificate may only be used as the basis for certification of a device or protective system.

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

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

Ex **II 2 G EEx de IIC** **I M2 EEx de I**

Zertifizierungsstelle Explosionsschutz
By order
Dr.-Ing. U. Klausmeyer
Oberregierungsrat

Braunschweig, 23 March 1998

(13) ## Schedule

(14) **EC-Type-Examination Certificate No. PTB 98 ATEX 1010 U**

(15) 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: max. 550 V

Power loss for	Clearance	16 mm	8 mm	Several in a row
T6 at T_a 40°C	max.	1.4 W	1.3 W	0.8 W
T4 at T_a 65°C	max.	1.4 W	1.3 W	0.8 W
T6 at T_a 60°	max.	0.7 W	0.6 W	0.4 W
T4 at T_a 85°C	max.	0.7 W	0.6 W	0.4 W

Rated conductor cross section: max. 2.5 mm^2

Number of terminals: 2 ...20

This control component is suitable for use in areas of temperature class T6 to T4. The flameproof enclosure of the component is rated as resistant to temperatures of -40°C to 105°C.

Rated operating voltage and current and, in the case of switchgear, utilization category are in accordance with the components fitted and should be taken from the information supplied by the manufacturer.

(16) Report PTB Ex 97-17080 consisting of 3 pages and Description (11 pages)
Drawing (1 page)
Parts list (2 pages)
Table (4 pages)
Test report (56 pages)

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Schedule to EC-Type-Examination Certificate No. PTB 98 ATEX 1010 U

(17) Special conditions for safe use

The control component is to be fitted in an enclosure complying with an approved explosion protection type in accordance with EN 50 014 section 1.2.

When fitted in an enclosure of explosion protection type "e" increased safety in accordance with EN 50 019, the clearance and creepage distances in accordance with section 4.3, section 4.4 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 EC-type-examination certificate and any future supplements thereto shall also count as supplements to partial conformity certificate PTB No. Ex-92.C.1052 U.

Routine testing

Routine testing in accordance with EN 50 018 section 16.1.1 is waived in accordance with section 16.2 owing to the component having a volume of less than 10 cm^3 .

Routine tests in accordance with EN 50 014 section 23.4.7.1 and the test documentation are to ensure that the maximum permissible temperature for the relevant temperature class is adhered to, taking account of the maximum permissible ambient temperature

(18) Essential Health and Safety Requirements

Not applicable.

Zertifizierungsstelle Explosionsschutz
By order
Dr.-Ing. U. Klausmeyer
Oberregierungsrat

Braunschweig, 23 March 1998

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

1. S U P P L E M E N T

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 1010 U

(Translation)

Equipment: Control component type 07-7311-61../....

Marking: ⟨Ex⟩ **II 2 G** **EEx de IIC**

⟨Ex⟩ **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:

⟨Ex⟩ **II 2 G** **Ex d e IIC Gb**

⟨Ex⟩ **I M2** **Ex d e I Mb**

Assessment and test report: PTB Ex 11-11274

ZSEx10101e.dotm

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, October 26, 2011

Dr.-Ing. U. Klausmeyer
Direktor und Professor

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Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

2 SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 1010 U

(Translation)

Equipment: Control Module type 07-7311-61**/****

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 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.

Applied standards

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

Test report: PTB Ex 14-34288

ZSEx10101e b

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, February 6, 2015
On behalf of PTB:

Dr.-Ing. M. Thedens
Oberregierungsrat