



(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 05 ATEX 1064 U

(4) Component: Control and switching unit, type 07-337.-1..0/.....

(5) Manufacturer: BARTEC GmbH

(6) Address: 97980 Bad Mergentheim, Germany

(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 07-15192.

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

EN 60079-0:2004

EN 60079-1:2004

EN 60079-7:2003

(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, examination and tests of the specified component in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

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



II 2 G Ex de IIC IM 2 Ex de I

Zertifizierungsstelle Explosionsschutz

Braunschweig, September 11, 2007

By order:

Dr.-Ing. U. Klausmeyer
Direktor und Professor



SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 05 ATEX 1064 U**

(15) Description of component

The control and switching unit, type 07-337.-1..0/.... , is used for switching and control (open and closed loops) purposes, and it is equipped with electronic and/or electromechanical components. The switching and control unit may be fitted with an actuator shaft and various covers.

Connection is by means of the integrated supply terminals.

Technical data

Rated insulation voltage	up to	500 V
Rated voltage	up to	400 V
Rated thermal current		
for ambient temperatures up to 40 °C	max.	16 A
for ambient temperatures up to 60 °C	max.	11 A
Rated conductor cross section	up to	2.5 mm ²

The control and switching unit can be used in temperature class T6 areas, and it has been designed for a temperature resistance between -55 °C and 85 °C.

Control and switching unit with integrated switching contact

Rated operating voltage	up to	24 V	110 V	400 V	400 V
Rated current I_e	max.	1.0 A	0.5 A	10 A	16 A
Utilization category *)		DC-13	DC-13	AC-15	AC-12
Contacts		1 NOC or 1 NCC			

Control and switching unit with integrated pushbutton contact

Rated operating voltage	up to	24 V	230 V
Rated current, contact I_e	max.	0.25 A	1.0 A
Utilization category *)		DC-13	AC-15
Contacts		1 NOC or 1 NCC	

*) Provided the making and breaking capacities defined in the relevant regulations are met, rated values other than those specified above are acceptable and will be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.

For the control unit

Rated operating voltage	up to	500 V
Ambient temperature	up to	40 °C 50 °C 60 °C
For power loss	max.	1 W 0.75 W 0.5 W

(16) Test report PTB Ex 07-15192

(17) Special conditions for safe use

The control and switching unit must be mounted in an enclosure that meets the requirements of an approved type of protection as specified in EN 60079-0, section 1.

When installing the control and switching unit in an enclosure designed to Intrinsic Safety "e" type of protection in compliance with EN 60079-7, the clearance and creepage distances specified in section 4.4, section 4.5, and table 1 must be complied with.

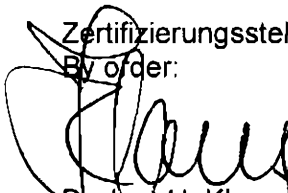
Since in this case the requirements of the standard are identical, the component may be used both in groups I and II.

(18) Essential health and safety requirements

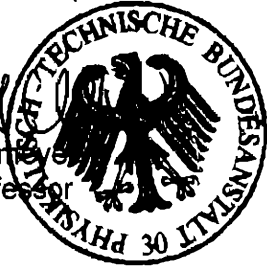
Met by compliance with the afore-mentioned Standards.

Zertifizierungsstelle Explosionsschutz

By order:



Dr.-Ing. U. Klaus
Direktor und Professor



Braunschweig, September 11, 2007

1st SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 05 ATEX 1064 U

(Translation)

Equipment: Control and switching unit, type 07-337*-***0/****

Marking:  II 2 G Ex de IIC

 I M2 Ex de I

Manufacturer: BARTEC GmbH

Address: 97980 Bad Mergentheim, Germany

Description of supplements and modifications

- 1) The standards were adapted.
- 2) The EPL marking added.
- 3) An additional casting resin material added.
- 4) The control and switching unit 07-337*-4***/**** has an additional contact termination.

Applied standards

EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007

Applying the above standards will change the marking, as follows:

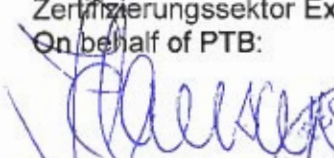
 II 2 G Ex d e IIC Gb

 I M2 Ex d e I Mb

Assessment and test report: PTB Ex 11-11011

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, March 3, 2011


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.