



(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 03 ATEX 1138

(4) Equipment: Switching and control unit, type 07-42.0-.../.....

(5) Manufacturer: BARTEC GmbH

(6) Address: 97980 Bad Mergentheim, Germany

(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/EC 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 04-13234.

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

EN 50014: 1997 + A1 + A2
EN 50020: 2002

EN 50018: 2000

EN 50019: 2000

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

II 2 G EEx de ia/ib [Ia/ib] IIC T6, T5 or T4

Zertifizierungsstelle Explosionschutz

Braunschweig, June 01, 2004

By order:

Dr.-Ing. U. Klaus Meyer
Regierungsdirektor

(13) **SCHEDULE**

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1138**

(15) Description of equipment

The switching and control gear, type 07-42.0-.../.... consists of the flameproof enclosure type 07-42.1-.../.... optionally with axles, shafts and/or inspection window or light-conducting rod which is used to install electrical switching, control and signalling devices.

Intrinsically safe circuits may be optionally installed under a separate examination certificate.

Connection is made by means of a terminal box designed to Increased Safety type of protection or by means of direct flameproof cable entries or conduit connections.

Electrical data

Rated insulation voltage *)	up to	250 V	500 V	750 V	1100 V	6 kV	10kV
Power loss for **)		T6, T _A 40 °C	T5, T _A 40 °C	T5, T _A 55 °C			
Type 07-4210		14 W	20 W	14 W			
Type 07-4210, w. inspection window		10 W	14 W	10 W			
Type 07-4220		24 W	35 W	24 W			
Type 07-4220, w. inspection window		12 W	20 W	12 W			
Type 07-4230		48 W	67 W	48 W			
Type 07-4230, w. inspection window		33 W	53 W	33 W			

*) depending on the cable entries and bushings used

**) for reduced enclosure heights, the power loss has to be reduced accordingly (see operating instructions)

Conductor size max. 16 mm²

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc. Any additional technical features are specified in the test documents.

The composition of the protection symbol will be based on the types of protection of the components actually used.

(16) Test report PTB Ex 04-13234

(17) Special conditions for safe use

None

Notes for manufacturing and operation

The switching and control gear may also be connected by means of suitable cable entries or conduit systems, which meet the requirements of EN 50018, sections 13.1 and 13.2, and for which a separate examination certificate has been issued.

Any openings not used shall be sealed as specified in EN 50018, section 11.

Cable entries and sealing plugs of simple designs must not be used.

Equipment accommodated in the switching and control gear must be installed in such a way that the clearance and creepage distances specified in EN 50020 between intrinsically safe and non-intrinsically safe circuits are complied with.

If system installation and layout does not provide for the clearance requirements for connectors as specified in EN 50020, wiring that meets the quality criteria Increased Safety "e" shall be used, or the wiring shall be mechanically fail-safe in compliance with EN 50020.

Should these clearance requirements not be met, local wiring work may be performed only if an explosion risk can be positively excluded along all the lines.

When connecting more than one intrinsically safe circuit, the rules and regulations for interconnection shall be duly observed.

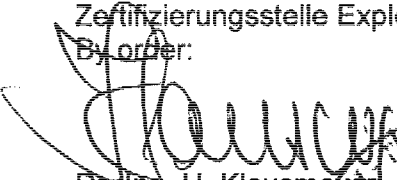
This EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements for Component Certificate PTB No. Ex-89.C.1057. These are no supplements as defined by Directive 76/117/EEC, but only show that the old examination certificate has been replaced.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, June 01, 2004

1st SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1038

(Translation)

Equipment: Switching and control gear type 07-42.0-..../....

Marking:  II 2 G EEx de ia/ib [ia/ib] IIC T6, T5 bzw. T4

Manufacturer: BARTEC GmbH

Address: 97980 Bad Mergentheim, Germany

Description of supplements and modifications

- 1) The standards were adapted.
- 2) The marking is revised in conformity with EN 60079-0:2009.

Applied standards

EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007, EN 60079-11:2007

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

 II 2(1)G Ex db eb ia/ib [ia] IIA, IIB bzw. IIC T6, T5 bzw. T4

 II 2G Ex db eb ia/ib [ib] IIA, IIB bzw. IIC T6, T5 bzw. T4

Assessment and test report: PTB Ex 11-11070

Zertifizierungssektor Explosionsschutz

On behalf of PTB:

Braunschweig, July 4, 2011


Dr.-Ing. U. Klausmeyer
Direktor und Professor



Sheet 1/1

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.