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/EC**

(3) EC-type-examination Certificate Number:

PTB 98 ATEX 1033 U

(4) Component: Built-in switch type 07--1501-..../....

(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 98-17033.

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

EN 50 014:1997 EN 50 018:1994

(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:

Ex **II 2 G EEx d IIC I M 2 EEx d I**

Zertifizierungsstelle Explosionsschutz
By order

Dr.-Ing. U. Klausmeyer
Oberregierungsrat

Braunschweig, July 30, 1998

(13) # S C H E D U L E

(14) ## EC-TYPE-EXAMINATION CERTIFICATE No. PTB 98 ATEX 1033 U

(15) Description of component

The type 07--1501-..../..... built-in switch component serves as an appliance switch or an auxiliary current switch for signal and control circuits.

Encapsulated single-core non-sheathed cables are used for connection

Technical data

Rated voltage .....up to	250 V
Rated current	
Type 07-1501-1..../....and -5.../.... .....max.	1 A
Type 07-1501-2..../....and -4.../.... .....max.	5 A
Type 07-1501-6..../....and -8.../.... .....max.	5 A
related to ..... cos phi	0,9

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 optionally as changeover contacts or break contacts and/or make contacts. The potential of the power supply must be identical for break and make contacts.

For temperature class	T6	T6	T5	T5
at an ambient temperature of	65 °C	70 °C	80 °C	90 °C
Rated thermal current	5 A	4 A	5 A	3 A

This built-in switch component has been designed for thermal stability between -55 °C and 100 °C.

Nominal conductor area ..... max. 2 or 3 x 0,5 mm² or 0,75 mm²

(16) Report PTB Ex 98-17033

including description (5 sheets), drawing (1 sheet), parts list (1 sheet), table of joints (1 sheet) and test record (14 sheets)

(17) Special conditions for safe use

The switch component 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 in accordance with section 4.3, section 4.4 and Table 1 must be complied with.

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-examination Certificate and supplements to it possibly issued in future must be considered to be also supplements to Component Certificate PTB No. Ex-89.C.1080 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 cm^3 and, according to section 16.2, enclosures with a volume of 10 cm^3 or less are exempted from the routine test.

(18) Essential health and safety requirements

Met by the standards mentioned above.

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