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 01 ATEX 1005 X

(4) Equipment: Limit switch, type Typ 07-2501-..../....

(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/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 01-10024.

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

EN 50014:1997 + A1 + A2 **EN 50018:1994**

(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 and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

II 2 G EEx d IIC T6

Zertifizierungsstelle Explosionsschutz

By order

Dr.-Ing. U. Klausmeyer
Regierungsdirektor

Braunschweig, May 16, 2001

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.

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(13) # SCHEDULE

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 1005 X

(15) Description of equipment

The limit switch of type 07-2501-..../.... is used as a switch for appliances or as a control switch for signal and control circuits. Installation shall be of the protected type; connection will be by means of the encapsulated connecting cable (open ended line).

Technical data

Rated voltage	up to	250	V
Limit switch, type 07.2501-5.../....			
Rated current	max.	1	A
Limit switch, type 07.2501-6.../.... and type 07.2501-7.../....			
Rated current	max.	5	A
cos ρ		≥ 0.9	
Thermal rated current			
with cross-sectional area of 0.5 mm²		3	A
with cross-sectional area of 0.75 mm²		6	A
Limit switch, type 07.2501-7... (gold contacts)			
Rated voltage	up to	30	V
Rated current	max.	0.4	A
Make-break capacity	max.	0.12	VA

Provided the making and breaking capacities 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.

Contacts: break contact, make contact, or change-over contact of the same potential

Connection rating ..... 2 or 3 x 0.75 or 0.5 mm²

Ambient temperature for temperature class T6

when using PVC sheathed cables	H03 VV-F .... max.	60	°C
when using PVC sheathed cables	LiYY ..... max.	70	°C

The limit switch is designed for a temperature resistance of -40 °C to 80 °C.

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SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 1005 X

(16) Test report PTB Ex 01-10024

(17) Special conditions for safe use

The limit switch shall be installed so as to provide for mechanical protection against impact energy in accordance with EN 50014 section 23.4.3.1.

The quality of the connecting cable shall satisfy the thermal and mechanical requirements within the functional range.

This EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements to Certificate of Conformity No. Ex-93.C.1019 X.

(18) Essential health and safety requirements

The tests and the favourable results these have produced reveal that the limit switch meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

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