



(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 00 ATEX 1093 X**



(4) Equipment: Limit switch, type 07-25.1-.../....

(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 00-10203.

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

EN 50014:1997

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 or T5

Zertifizierungsstelle Explosionsschutz

Braunschweig, December 7, 2000

By order

Dr.-Ing. U. Klausmeyer  
Regierungsdirektor



(13) **SCHEDULE**

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1093 X**

(15) Description of equipment

The limit switch of type 07-25.1-.../... is used as an auxiliary switch for signal and control circuits. It will comprise one or two interrupting chambers and housings differing in their thermal resistance.

Connection is provided by means of an encapsulated connecting cable (open ended line).

Technical data

Rated insulation voltage <sup>a)</sup> ..... up to	500 V	
	Type 07-2511-.../... and type 07-2581-.../...	
Rated operating voltage $U_e$ .....	400 V	250 V
Rated current $I_e$ ..... max.	2 A	0.15 A
Related to utilization category .....	AC-15	DC-13
	Type 07-2521-..1./... to 07-25221-..4./...	
Rated operating voltage $U_e$ .....	250 V	250 V
Rated current $I_e$ ..... max.	5 A	0.4 A
Related to utilization category .....	AC-15	DC-13
	Type 07-2521-..6./...	
Rated operating voltage $U_e$ .....	250 V	250 V
Rated current $I_e$ ..... max.	2 A	0.4 A
Related to utilization category .....	AC-15	DC-13
	Type 07-2521-..7./...	
Rated operating voltage $U_e$ .....	400 V	250 V
Rated current $I_e$ ..... max.	2 A	0.4 A
Related to utilization category .....	AC-15	DC-13
	Type 07-2521-..8./...	
Rated operating voltage $U_e$ .....	500 V	250 V
Rated current $I_e$ ..... max.	2 A	0.4 A
Related to utilization category .....	AC-15	DC-13

<sup>a)</sup> depending on connecting cable used

*Provided the making and breaking capacity complies with the relevant conditions, rated values other than those specified above are accepted and will be defined by the manufacturer on the basis of the operating mode, utilization category, etc.*

Contacts depending on switching module 1 or 2 changeover contacts or  
1 break and/or 1 make contact,  
1 or 2 break contacts with positive opening operation

Temperature	≤ 60 °C	70 °C	75 °C	90 °C
Temperature class		T6		
Type 07-2511-...X0/.... and 07-2581-...X0/.... Rated thermal current	7 A	--	3 A	--
Type 07-2511-...XX/.... and 07-2581-...XX/.... Rated thermal current	6 A	--	2 A	--
Temperature class	T6	T5	T6	T5
Type 07-2521-...X0/.... Rated thermal current	5 A	8 A	3 A	3 A
Type 07-2521-...XX/.... Rated thermal current	5 A	6 A	2 A	2 A

The limit switches of type 07-2511- and 07-2581- are designed for a temperature resistance of -55 °C to 100 °C.

The limit switch of type 07-2521- is designed for a temperature resistance of -20 °C to 115 °C.

Nominal conductor cross section ..... 2 to 8 x 1.5 mm<sup>2</sup>

(16) Test report PTB Ex 00-10203

(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 PTB No. Ex-91.C.1083 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.

Zertifizierungsstelle Explosionsschutz

By order:



Dr. Ing. U. Klausmeyer  
Regierungsdirektor

Braunschweig, December 7, 2000

## 1<sup>st</sup> SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1093 X

(Translation)

Equipment: Limit switch, type 07-25.1-.../....

Marking:  II 2 G EEx d IIC T6 resp. T5

Manufacturer: BARTEC GmbH

Address: Max-Eyth-Straße 16, 97980 Mergentheim, Germany

Description of supplements and modifications

The limit switch of type 07-25.1-.../.... is used as an auxiliary switch for signal and control circuits.

Description of changes:

- 1) The name of the manufacturer changed.
- 2) The standards were adapted.
- 3) The EPL marking was added.
- 4) Material name changed.
- 5) An additional casting resin material was added.
- 6) The name of a connection cable changed.
- 7) Additional connection cables were added.
- 8) Added design variation with lateral resp. dual connection cable.

Applied standards

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

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

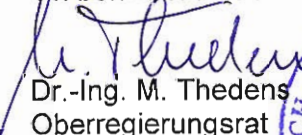
 II 2 G Ex d IIC T6, T5 Gb resp. Ex db IIC T6, T5

Assessment and test report: PTB Ex 10-10255

Zertifizierungssektor Explosionsschutz

Braunschweig, November 11, 2010

On behalf of PTB:

  
Dr.-Ing. M. Thedens  
Oberregierungsrat



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