# 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 03 ATEX 1070 X**

(4) Equipment: Position switch, type EEx 14...

(5) Manufacturer: steute Schaltgeräte GmbH Co. KG

(6) Address: 32584 Löhne, 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 03-13121.

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

**EN 50014:1997 + A1 + A2** **EN 50018:2000** **EN 50281-1-1:1998**

(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/D EEx d IIC T6/T5 IP64 T 80 °C/95 °C**

Zertifizierungsstelle Explosionsschutz
By order:

Dr.-Ing. M. Thedens

Braunschweig, August 04, 2003

(13) # SCHEDULE

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1070 X

(15) Description of equipment

The position switch, type EEx 14... , is used for switching signal and control circuits. Actuator elements will be used as required.

Connection is made by means of the integrated connecting cable (open-ended line).

Technical data

| | | | |
|---|---|---|---|
| Rated insulation voltage ..... | up to | 250 V | |
| Rated operating voltage ..... | up to | 250 V | 230 V |
| Rated current $I_e$ ..... | max. | 6 A | 0.25 A |
| Utilization category ..... | | AC-15 | DC-13 |

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 ..... | | 1 NOC and 1 NCC, or 2 NCCs | |
| Rated conductor cross section ..... | up to | 4 x 0.5 mm² or 0.75 mm² | |
| Temperature class ..... | | T6 | T5 |
| Ambient temperature ..... | | 60 °C | 75 °C |

The position switch is designed for up to 90 °C temperature resistance.

(16) Test report PTB Ex 03-13121

(17) Special conditions for safe use

The position switch has not been subjected to an impact test in compliance with EN 50014, sections 22.4.3.1 and 22.4.7.7. The position switch shall be installed such that equivalent protection is guaranteed.

The connecting cable (open-ended line) of the position switch shall be installed to provide for permanent wiring and adequate protection against mechanical damage.

This EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements to Component Certificate PTB No. Ex- 93.C.1011 X.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionsschutz
By order:

Dr.-Ing. M. Thedens

Braunschweig, August 04, 2003