



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx PTB 06.0091 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2012-1-27)
Issue No. 0 (2006-10-25)

Date of Issue: **2012-01-27** Page 1 of 4

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Electrical Apparatus: **Position switch, type 8060/1-....**
Optional accessory:

Type of Protection: **Flameproof enclosure "d"; Increased Safety "e"; Protection by enclosures "tD"**

Marking: Ex de IIC T6 Ex tD A21 IP65 T80 °C

Approved for issue on behalf of the IECEx Certification Body: Dr. Ing. Uwe Klausmeyer

Position: Head of Section "Flameproof Enclosures"

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
DE/PTB/ExTR06.0072/00

Quality Assessment Report:

DE/BVS/QAR10.0002/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The position switch, Type 8060/1-... consists of a plastic enclosure designed to type of protection increased safety "e" and protection by enclosure "tD". The position switch accommodates a contact element (which is covered by a separate certificate). It is used to actuate auxiliary, control and signal circuits. Connection is by means of a – separately certified – cable entry.

Nomenclature

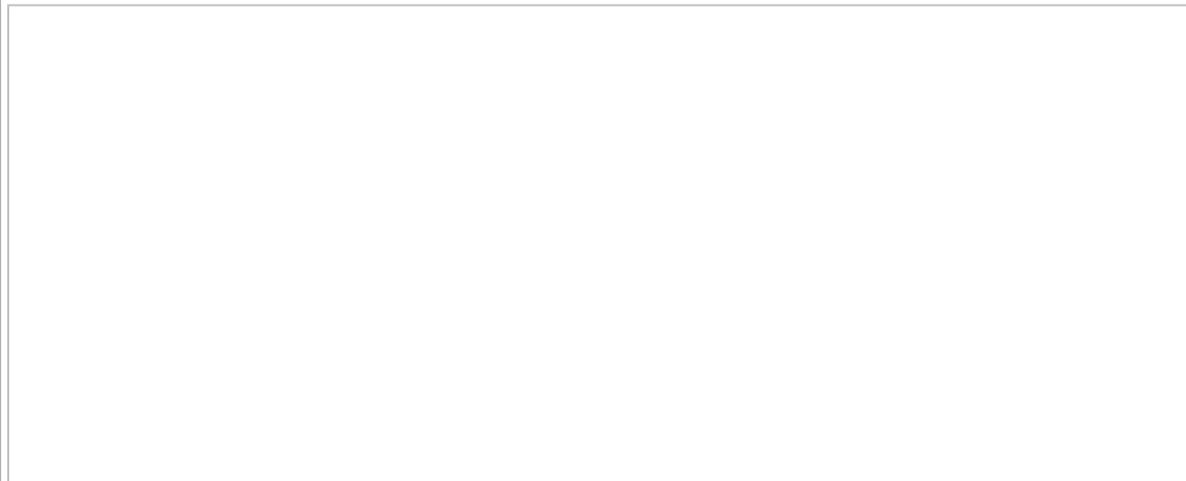
Position switch	Type	8060/a-b-cde
a	1 = Design	
b	Number of contacts 1 = 1 NO contact / 1 NC contact 2 = 1 NO contact / 1 NC contact snap-action contact 3 = 2 NC contacts 4 = 2 NO contacts 5 = 1 NO contact / 1 NC contact overlapping	
c, d, e	numerals or letters without influence to explosion-protection	

Technical data

Rated insulation voltage	up to	550 V
Rated operating voltage	up to	125 V 250 V 500 V
Rated current	max.	10 A 0.2 A 10 A
Utilisation category		DC-12 DC-12 AC-15
Contacts	NO contact and/or contact with positive opening operation	
Rated cross section	2.5 mm ²	
Ambient temperature ranges during operation	-20 °C to +50 °C for 10 A -20 °C to +70 °C for 6 A	

Provided the making and breaking capacities are met, rated values other than those specified above are acceptable and shall be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.

CONDITIONS OF CERTIFICATION: NO





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

New QAR