

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 07.0001U	issue No.:1	Certificate history: Issue No. 1 (2012-1-27)			
Status:	Current		Issue No. 0 (2007-3-9)			
Date of Issue:	2012-01-27	Page 1 of 4				
Applicant:	cant: R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg (Württ.) Germany					
Electrical Apparatus: Optional accessory:	Potentiometer for pane	el-mounting type 8455/4				
Type of Protection:	Flameproof enclosures	es "d", Increased safety "e", Encapsulation "m"				
Marking:	Ex dem IIC					
Approved for issue on b Certification Body:	pehalf of the IECEx	DrIng. Ulrich Johannsmeyer				
Position:		Department Head "Intrinsic Safe	ety and Safety of systems"			
Signature: (for printed version)						
Date:						
2. This certificate is not		uced in full. se property of the issuing body. y be verified by visiting the Official I	ECEx Website.			
Certificate issued by:						
Physikalisch	-Technische Bundesansta	alt (PTB)				

Bundesallee 100 38116 Braunschweig Germany





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Manufacturer: R. STAHL Schaltgeräte GmbH

Am Bahnhof 30

74638 Waldenburg (Württ.)

Germany

Additional 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 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

IEC 60079-1: 2001 Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'

Edition: 4

IEC 60079-18: 1992 Electrical apparatus for explosive gas atmospheres - Part 18: Encapsulation 'm'

Edition: 1

IEC 60079-7: 2001 Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

Edition: 3

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/ExTR07.0002/00

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 potentiometer for panel mounting, type 8455/4-..., is intended for mounting into walls and covers of enclosures for electrical apparatus or for mounting into control boards or control cabinets. It is suitable to be used in hazardous areas.

Nomenclature

INUITIETICIAI	uie					
Potentiometer for panel mounting		Туре	8455/a-bcd			
а	Variation 4 = Screw-	Variation 4 = Screw-type terminal				
b, c, d	numerals o	numerals or letters without influence to explosion-protection				
Electrical o	lata					
Rated insulation voltage		42	420 V			
Rated volta	ige	up to	40	0 V		
Rated power up to		2 \	2 W			
Ambient temperature range				O °C to +55 °C (T5) O °C to +40 °C (T6)		

Special conditions for safe use

- 1. A fuse corresponding to the potentiometer's rated current (max. 3xl_B according to IEC 60127-2-1) or motor protection switch with short-circuit and thermal instantaneous tripping (adjusted to rated current) shall be connected in series to each potentiometer as short-circuit protection. For very low rated potentiometer currents a fuse with the lowest current value according to the mentioned IEC-standard will be sufficient. The fuse may be installed in the associated supply unit or it has to be connected in series separately. The fuse's rated voltage shall be the same as or higher than the rated voltage specified for the potentiometer. The breaking capacity of the fuse link shall be the same as or higher than the prospective maximum short-circuit current at place of installation (usually 1500 A).
- 2. The built-in part of the potentiometer has to be mounted in mechanically protected manner.
- 3. The potentiometer shall be mounted into an enclosure which meets the requirements of an acknowledged type of protection in accordance with IEC 60079-0.
- 4. When mounting the potentiometer into an enclosure of type of protection Increased Safety "e" according to IEC 60079-7, the creepage and clearance distances shall duly be considered according to section 4.4 (table 2) and section 4.5 (table 1).

CONDITIONS OF CERTIFICATION: NO



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