

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 07.0011X	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:	R. STAHL Schaltgeräte Am Bahnhof 30 74638 Waldenburg (Württ. Germany				
Electrical Apparatus: Optional accessory:	Illuminated push button for panel mounting type 8018/3				
Type of Protection:	Flameproof enclosures "d", Encapsulation "m", Intrinsic safety "i", Protection by enclosures "tD"				
Marking:	Ex dm IIC T6 resp. Ex dm ia IIC T6 and Ex tD A21 IP65 T 80 °C				
Approved for issue on behalf of the IECEx [Certification Body:		DrIng. Ulrich Johannsmeyer			
Position:		Department Head "Intrinsic Safety a	nd Safety of Systems"		
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 (Württ.)

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 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 60079-11: 1999 Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

Edition: 4

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

Edition: 1

IEC 61241-0 : 2004 Electrical apparatus for use in the presence of combustible dust - Part 0: General

Edition: 1 requirements

IEC 61241-1: 2004 Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by

Edition: 1 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/ExTR07.0014/00

Quality Assessment Report:

DE/BVS/QAR10.0002/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The illuminated push button for panel mounting, type 8018/3...-..-, is intended for installation in the walls and covers of enclosures for electrical equipment or for control boards or control cabinets. The illuminated push button of type Intrinsic Safety "i" is operated as an intrinsically safe unit when connected to intrinsically safe circuits.

Nomenclature						
Illuminated push			Тур	pe 8018/abcd-ef-g		
a 3 = Design						
b	Variation 1 = standard 2 = intrinsic safety					
c, d, e, f, g	numerals or letters without influence to explosion-protection					
Electrical data						
Luminous eleme	ent					
Rated insulation	n voltage			550 V		
Туре				8018/31.		
Rated voltage				10.8 V - 270 V AC/DC		
Туре				8018/32.		
Rated voltage				10.8 V - 28 V AC/DC		
				Suited for conne (Signalling circui	ction to intrinsically safe circuits t) with the following maximum values:	
				U _i = 28 V		
				I _i = 150 mA		
				P _i = 1 W		
			L _i and C _i are negligibly low			
Frequency range			0 to 60 Hz			
r requeriey rang				0 10 00 112		
Pushbutton					1	
Rated voltage			un	to 500 V		
Rated current				to 6 A		
Rated voltage		Rated current		aking capacity	Utilization category	
max. 500 V		max. 6 A		x. 3000 VA	AC 12	
max. 500 V		max. 6 A		x. 1250 VA	AC 15	
max. 110 V		max. 1 A		x. 110 W	DC 13	
Provided the ma			met, rated va	lues other than the	ose specified above are acceptable and	
	by the manuf	acturer on the basis o			n category, etc.	
			- NO			
			– NC – NO			
Rated cross sed	rtion			5 mm ²		
			°C to +60 °C			
Ambient temperature range		-30	C 10 +60 C			

CONDITIONS OF CERTIFICATION: YES as shown below:

- 1. The illuminated push button for panel mounting, type 8018/31.., shall be installed in such a way that its rear end is protected against mechanical damage.

 2. The illuminated push button for panel mounting, type 8018/32., may be operated as an intrinsically safe unit when

3. The signalling circuit is ele4. The maximum permissible5. The maximum ambient te	re resistance can be dispensed with for the	50 °C. or the bezel used for the illuminated push button luminous element (flameproof enclosure) of the		
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	E CHANGES (for issues 1 and above):			
New QAR				