



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 07.0028U issue No.:1

Certificate history:

Issue No. 1 (2010-5-20)  
Issue No. 0 (2007-6-4)

Status: **Current**

Date of Issue: **2010-05-20** Page 1 of 4

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

Electrical Apparatus: **Control Panel, type 8265/4.-...**  
*Optional accessory:*

Type of Protection: **Flameproof enclosure "d", Increased Safety "e", Intrinsic Safety "i"**

Marking: **Ex de ia/ib [ia/ib] IIC**

*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](http://www.iecex.com).

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR10.0032/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

**Description of equipment** The control panel type 8265/4.-... is made of aluminum with a screw-on cover. The flameproof enclosure is designed to accommodate switching and control gear, measuring equipment and display units.

More see annex

### CONDITIONS OF CERTIFICATION: NO

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

There are no changes on the control unit 8265/4.-... . The standards were adapted as follows:

IEC 60079-0:2004, Fourth edition --> IEC 60079-0:2004, Fourth edition (no changes!)

IEC 60079-1:2003, Fifth edition --> IEC 60079-1:2007, Sixth edition

IEC 60079-7:2006, Fourth edition --> IEC 60079-7:2006, Fourth edition (no changes!)

IEC 60079-11:1999, Fourth edition --> IEC 60079-11:2006, Fifth edition

For the installation of intrinsically safe devices are those admitted that correspond to the IEC 60079-11:2006, fifth edition standard.

**Description of equipment flameproof enclosure type 8265/4.-...****Description of equipment**

The control panel type 8265/4.-... is made of aluminum with a screw-on cover. The flameproof enclosure is designed to accommodate switching and control gear, measuring equipment and display units.

Cover and side walls may be fitted with actuator rods and/or sight glasses.

Connection is by means of cable bushings or wire bushings or by means of direct cable entries.

**Nomenclature**

Control Panel	Type	8265/ab-cde
a	4 = Control Panel mounted in "e"-enclosure	
b	Enclosure size (length x width x height) 2 = 155 x 155 x 132 mm 3 = 195 x 195 x 172 mm	
c, d, e	numerals or letters without influence to explosion-protection	

**Electrical data**

Rated insulation voltage *)	max.	690 V	1.000 V	11 kV
Rated cross section *)	up to	95 mm <sup>2</sup>		
Ambient temperature range	°C	-55 °C ... +55		
*) subject to cable or wire bushing and terminal box and terminals used				

**Permissible power dissipation for use in temperature class and maximum surface temperature**

Enclosure Type	T6 / T80 °C		T5 / T95 °C	
	Ta = +40 °C	Ta = +55 °C	Ta = +40 °C	Ta = +55 °C
8265/42 mounted in "e"-enclosure	27 W	16 W	39 W	27 W
8265/43 mounted in "e"-enclosure	32 W	19 W	47 W	32 W

Useable for temperature classes T6, T5 or T4

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc. Any other technical details are specified in the test documents.

If required, equipment with type of protection Intrinsic Safety "i" built-in, which is covered by a separate certificate.

The composition of the protection symbol will be based on the types of protection of components actually used.

**Notes for manufacturing and operation**

The control panel may also be connected by means of suitable cable entries or conduit systems which meet the requirements of IEC 60079-1, section 13.1 and 13.2, and for which a separate certificate has been issued.

Unused openings shall be closed as specified in IEC 60079-1, section 11.

The temperature class T4 is only suitable for control panels with built-in components in type of protection Intrinsic safety "i" or for components with lead only a partial warming and damage no other components.

The control panel shall be mounted in an enclosure with meets the requirements for type of protection of IEC 60079-0, section 1.

Components shall be mounted in the control panel in such a way that the clearance and creepage distances that are required according to IEC 60079-11 between intrinsically safe and non-intrinsically safe circuits are duly considered.

**Description of equipment flameproof enclosure type 8265/4.-...**

If system installation and layout does not provide for the clearance requirements for connectors as specified in IEC 60079-11, wiring that meets the quality criteria Increased Safety "e" shall be used, or the wiring shall be of the fail-safe type in compliance with IEC 60079-11.

Should these clearance requirements not be met, local wiring work may be performed only if an explosion risk can positively be excluded along all the lines.

When connecting more than one intrinsically safe circuit, the rules and regulations for interconnection shall duly be considered.