



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 06.0079** Issue No.: **0**

Status: **Current**

Date of Issue: **2006-09-01** Page 1 of 3

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

Electrical Apparatus: **Control and distribution box, type 8125/5...-... and Adaptor box for "d" enclosures, type 8125/8...-...**
Optional accessory:

Type of Protection: **Flameproof enclosures, Increased Safety, Intrinsic Safety, Encapsulation, Protection by Enclosures**

Marking: **Ex dem ia/ib [ia/ib] Ila, IIB or IIC T6, T5 or T4
Ex tD A21 IP65 T 80 °C, T 95 °C or T 130 °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](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 (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 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 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
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/ExTR06.0099/00](#)

Quality Assessment Report:

[DE/PTB/QAR06.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The control and distribution box, type 8125/5...-... and the adaptor box for "d" enclosures, type 8125/8...-... are a sheet-steel or stainless sheet-steel enclosure designed to type of protection Increased safety "e" and Protection by enclosure "ID".

They are used to accommodate switchgear, control gear and measuring instruments, as well as terminals, intrinsically safe and non-intrinsically safe circuits and may optionally be provided with actuator elements, indicator lights and inspection windows.

The box area intended for intrinsically safe circuits will be marked e.g. by a specific colour (light-blue) or a warning label. Connection will be made by means of explosion-proof cable entries.

The empty enclosure and all installed and attached components have been tested and certified under a separate test certificate.

Nomenclature

Control and distribution box Adaptor box for „d“ enclosures	Type	8125/abcd-efg
a	5 = Control and distribution box 8 = Adaptor box for "d" enclosures	
b, c	Sizes (Length x Width in mm) 00 = Combination 04 = 176.5 x 116.5 05 = 176.5 x 176.5 06 = 236.5 x 176.5 07 = 360 x 176.5 B7 = 360 x 176.5 25 = 360 x 300 08 = 360 x 360 20 = 360 x 360 09 = 727 x 360 10 = 235 x 360 35 = 480 x 300 30 = 480 x 360 58 = 543.5 x 543.5 90 = 730 x 360 91 = 730 x 730	
d	Sizes (Height in mm) 0 = Combination 1 = 91 3 = 150 5 = 190 6 = 230 7 = 290 9 = special height between 91 and 290	
e, f, g	numerals or letters without influence to explosion-protection	

Technical data

Rated voltage*	up to	1100 V
Rated current*	max.	630 A
Rated cross section*	max.	240 mm ²
*) depending on type of terminal and explosions-proof components used		
Ambient temperature range	-55 °C to +55 °C	
Protection against contact, entry of solids and water according to IEC 60529	≥ IP65	

The ratings specified are maximum values, actual values will be subject to the electrical equipment used from case to case. Depending on the system conditions, the mode of operation, the utilisation category, etc., the manufacturer will define the definitive ratings which will be within the range of these limiting values and will

comply with the relevant standards.

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

Notes for installation and use

Equipment of the type of protection Intrinsic Safety "i" shall be installed in such a way that the clearances and creepage distances between intrinsically safe and non-intrinsically safe circuits as set forth in IEC 60079-14 are duly accounted for.

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

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

The actual ambient temperature range will be based on the admissible temperature range of the components used.

CONDITIONS OF CERTIFICATION: NO