



# 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.:  issue No.:

Status:

Date of Issue: **2008-07-08** Page 1 of 3

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

Electrical Apparatus: **Control and Distribution Box Typ 8126/54...-.**  
*Optional accessory:*

Type of Protection: **Different**

Marking: **Ex de ia/ib [ia/ib] m IIA, IIB, IIC T6, T5, T4**  
**Ex tD A21 IP65 T80 °C, T95 °C, T130 °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





# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0027

Date of Issue: **2008-07-08**

Issue No.: **0**

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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 : 2001</b> Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-18 : 2004</b> Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> 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/ExTR08.0032/00](#)

Quality Assessment Report:

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



# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0027

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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 8126/54...-., is made of stainless steel. It is used in type of protection Increased Safety "e" and Protection by Enclosures "tD".

It is used to accommodate switchgear, control gear, measuring instruments, as well as terminals for intrinsically safe and non-intrinsically safe circuits. Where required it may be fitted with actuator elements, pilot lamps and inspection windows.

The box area for intrinsically safe circuits will be marked, e.g. by a light-blue colour 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 separate IECEx certificates. **Technical data, Nomenclature and Notes for manufacturing and operation see Annex.**

### CONDITIONS OF CERTIFICATION: NO



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

Electrical Apparatus: Control and distribution box, type 8126/54...-.-.

### Description of equipment

The control and distribution box, type 8126/54...-.-., is made of stainless steel. It is used in type of protection Increased Safety "e" and Protection by Enclosures "tD".

It is used to accommodate switchgear, control gear, measuring instruments, as well as terminals for intrinsically safe and non-intrinsically safe circuits. Where required it may be fitted with actuator elements, pilot lamps and inspection windows.

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### Technical data

Rated voltage*:	up to	1100 V
Rated current*:	max.	630 A
Rated cross section*:	max.	240 mm <sup>2</sup>
*) depending on type of terminal and explosion-proof components used		
Ambient temperature range	-20 °C to +55 °C	
Protection against contact, entry of solids and water according to IEC 60529	≥ IP65	

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.

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



Nomenclature

<b>Control and distribution box</b>	<b>Type</b>	<b>8126/abcd-e-f</b>
a	Variation 5 = Control and distribution box	
b	Enclosure material 4 = Stainless steel	
c, d	Enclosure sizes Length x Height x Depth [mm] 01 = 200 x 300 x 155 02 = 380 x 300 x 155 03 = 380 x 380 x 210 04 = 380 x 600 x 210 05 = 600 x 600 x 210 06 = 600 x 760 x 210 07 = 760 x 760 x 300 08 = 800 x 1.000 x 300 09 = 300 x 380 x 210 90 = 550 x 360 x 230 91 = 750 x 360 x 230 92 = 900 x 360 x 230 93 = 1.100 x 360 x 230 94 = 1.300 x 360 x 230 95 = 800 x 1.200 x 300 99 = customized (max. 1.300 x 1.200 x 300) 00 = Combination	
e, f	numerals or letters without influence to explosion-protection	

Notes for manufacturing and operation

Equipment of type of protection Intrinsic Safety “i” shall be installed in such a way that the clearance and creepage distances that are required according to IEC 60079-14 between intrinsically safe and non-intrinsically safe circuits are duly considered.

If the clearance requirements specified in IEC 60079-11, are not complied with, terminals and wiring that meets the quality criteria Increased Safety “e” shall also be used for the intrinsically safe circuits.

When connection more than one intrinsically safe circuit, the rules and regulations for inter-connection shall duly be observed.

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