



# 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 05.0023 Issue No: 3 Certificate history:  
Status: **Current** Page 1 of 4 Issue No. 3 (2012-10-12)  
Date of Issue: **2012-10-12** Issue No. 2 (2010-07-30)  
Applicant: **R. STAHL Schaltgeräte GmbH** Issue No. 1 (2006-01-31)  
Am Bahnhof 30  
74638 Waldenburg  
Germany  
Equipment: **Plug-and-socket-device, type 8570/\*\*-\*\*\***  
*Optional accessory:*  
Type of Protection: **Flameproof enclosure "d", Increased Safety "e", Protection by enclosure "tD"**  
Marking: Ex de IIC T6  
resp.  
Ex de [ia] IIC T6  
Ex tD A21 IP 66 T80 °C  
Tamb - 50 °C to +55 °C or -50 °C to +40 °C

Approved for issue on behalf of the IECEx  
Certification Body:

Dipl. Phys. Uwe Völkel

Position:

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

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:

<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"
<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/ExTR10.0043/01](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/02](#)



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## Schedule

### EQUIPMENT:

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

See attachment.

CONDITIONS OF CERTIFICATION: NO



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

1. Type 8570/\*\*-3\*\* (2P+PE): rated current increases to 20 A.
2. Ambient temperature decreases to +40 °C in the case of 20 A.

**Annex:**

[Annex-IECEx PTB 05.0023-Issue 3.pdf](#)



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

Electrical Apparatus: Plug and Socket Devices type 8570/\*\*-\*\*\*

### Description

The plug-and-socket device, type 8570/\*\*-\*\*\*, with wall-mounting socket outlet, plug and flange-mounting socket outlet is to provide for cable connection in potentially explosive areas. If required, the auxiliary circuit may be equipped to form an intrinsically safe circuit.

The integrated switch is used as an interlocking device and prevents actuation of the plug-and-socket device when alive. Staggered slots (in relation to the thicker earth contact) make sure that only identically coded plugs or socket outlets can be used together. The plug and the receptacle of this plug-and-socket device are designed for compatibility with the plug-and-socket device of type 8575/..-.-.

Connection is by means of the integrated screw-type terminals.

For proper mounting of the flange-mounting socket outlet, reference is made to the Notes for Manufacturing and Operation.

### Technical data

#### Type 8570/\*\*-3\*\* (2P+PE)

Rated insulation voltage .....	up to	500 V
Rated voltage .....	up to	550 V
Rated current .....	max.	16 A or 20 A
Utilization category .....		AC-3

#### Type 8570/\*\*-4\*\* and 8570/\*\*-5\*\*

Rated insulation voltage .....	up to	630 V
Rated voltage .....	up to	690 V
Rated current .....	max.	16 A
Utilization category .....		AC-3

#### Auxiliary contacts

Rated insulation voltage .....	up to	550 V
Rated voltage .....	up to	500 V
Rated current .....	max.	6 A
Utilization category .....		AC-12 and AC-15

No. of plug-in contacts .....	3 to 5
Rated cross section .....	6 mm <sup>2</sup> single-wire
.....	4 mm <sup>2</sup> finely or extra finely stranded
Ambient temperatures .....	16 A: -50 °C to +55 °C
.....	20 A: -50 °C to +40 °C

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