



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX PTB 05.0024</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 5	Issue 4 (2021-11-24)
Date of Issue:	2022-03-30		Issue 3 (2020-10-12)
Applicant:	<b>R. STAHL Schaltgeräte GmbH</b> Am Bahnhof 30 74638 Waldenburg Germany		Issue 2 (2010-08-09)
Equipment:	<b>Wall Socket and Coupler Socket type 8571/**-***-*(-*)</b>		Issue 1 (2006-01-31)
Optional accessory:			
Type of Protection:	<b>Flameproof Enclosure "db", Increased Safety "eb" and Protection by Enclosure "tb"</b>		
Marking:	Ex db eb IIC T6 ... T5 Gb Ex tb IIIC T76 °C Db		

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr.-Ing. Detlev Markus**

Position:

**Head of Department "Explosion Protection in Energy Technology"**

Signature:  
(for printed version)

Date:  
(for printed version)

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

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with 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/ExTR10.0044/03](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/17](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The series 8571/\*\*\_\*\*\*\*(-\*) wall socket and coupler socket are used for connection of portable and fixed electrical equipment as well as cables and circuits in potentially explosive atmospheres.

A staggered connector pin assignment safeguards that only plugs or socket contacts of identical voltage rating can be used together. The series 8571/\*\*\_\*\*\* wall sockets and coupler sockets are operated with plug of the series 8571, which has its own certificate according to IECEx.

For more information see annex.

**SPECIFIC CONDITIONS OF USE: NO**



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

1) Addition of an earthed metal plate

### **Annex:**

[COCA05.0024-05.pdf](#)



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

Electrical Apparatus: Wall Socket and Coupler Socket type 8571/\*\*-\*\*\*-\*(-\*)

### Description

The series 8571/\*\*-\*\*\*-\*(-\*) wall socket and coupler socket are used for connection of portable and fixed electrical equipment as well as cables and circuits in potentially explosive atmospheres.

A staggered connector pin assignment safeguards that only plugs or socket contacts of identical voltage rating can be used together. The series 8571/\*\*-\*\*\* wall sockets and coupler sockets are operated with plug of the series 8571, which has its own certificate according to IECEx.

### Nomenclature

8571	/	*	*	-	*	**	-	*	(-*)
a	b	c	d		e	f		g	h

- a Type series
- b Version
  - / device packed
  - A Assembly internal
- c Design
  - 1 Standard
  - 2 North America
- d Device:
  - 1 Wall mounting socket
  - 6 Coupler socket
- e Poles:
  - 4 3P + PE
  - 5 3P + N + PE
- f Code for pin orientation and voltage
- g B: silicone free  
S: containing silicone
- h Sign (- \*) can contain 0-xx characters, including the separators "-", "/" or ". ".  
Additional parameters that do not affect the explosion protection of the equipment

### Ambient temperature

For Wall Socket type 8571/\*1-\*\*\* and Coupler Socket type 8571/\*6-\*\*\*:

$-50^{\circ}\text{C} \leq T_{\text{amb}} \leq +25^{\circ}\text{C} \dots +65^{\circ}\text{C}$  / T6 ... T5 by current range 16 A ... 32 A

$-50^{\circ}\text{C} \leq T_{\text{amb}} \leq +25^{\circ}\text{C} \dots +60^{\circ}\text{C}$  / T6 ... T5 by current range 16 A ... 32 A

valid for use of metal plate or terminal of auxiliary contact with adhesive D0213

### Service temperature

For Wall Socket type 8571/\*1-\*\*\* and Coupler Socket type 8571/\*6-\*\*\*:

$-50^{\circ}\text{C} \leq T_{\text{s}} \leq +60^{\circ}\text{C}$  (valid for use of metal plate or terminal of auxiliary contact with adhesive D0213)

$-50^{\circ}\text{C} \leq T_{\text{s}} \leq +75^{\circ}\text{C}$  (for the enclosure)

$-50^{\circ}\text{C} \leq T_{\text{s}} \leq +95^{\circ}\text{C}$  valid for contact sleeve carrier

### Electrical Data

**Table 1: 8571/\*1 and 8571/\*6**

	Main contacts	Auxiliary contacts
	4, 5 poles	
Max. rated operational voltage	690 V AC / 110 V DC	500 V AC / 110 V DC
Max. rated insulation voltage	750 V AC	550 V AC
Max. rated operational current	32 A	6 A
Switching capacity	AC-3, 690 V, 32 A 7,5 kW, 220 ... 240 V 15 kW, 380 ... 415 V 30 kW, 600 ... 690 V DC-1, 110 V, 32 A	AC-15, 500 V, 1250 VA AC-15, 230 V, 1380 VA AC-12, 500 V, 3000 VA DC-13, 110 V, 110 W
Max. rated frequency	0 ... 500 Hz	
Short-circuit protection	35 A gG (with thermal protection)	
Terminal capacity for flange socket type 8571/*5-**	1 or 2 x 2.5 ... 10 mm <sup>2</sup> (12... 8 AWG) solid 1 or 2 x 2.5 ... 6 mm <sup>2</sup> (12... 10 AWG) stranded	
Terminal capacity for auxiliary contacts	1 or 2 x 0.5 ... 2.5 mm <sup>2</sup> (20 ... 14 AWG) solid or stranded	
PE conductor size	Same or larger than line / load cross section	
Tightening torque	Terminals: 1.6 Nm, for 2 x 10 mm <sup>2</sup> : 2 Nm Fixing screws of the flange socket: 2.3 Nm Fixing screws of the enclosure cover: 1.8 Nm	

Note: Stranded wires are suitable with or without wire end ferrules.



### **Notes for installation and operation**

1. Openings that are not used must be closed in compliance with the specifications of the standards listed on the cover sheet.
2. In order to ensure the ingress protection IP, the bayonet ring of the plug must be screwed up to the stop to the socket or the hinged cover of the socket must be closed and screwed up to the stop when the plug is not inserted. The cover of the terminal compartment must be fastened with the appropriate torque.
3. The wall socket must not be used in dust areas where highly charge-generating processes, machine friction and separation processes, electron spraying (e.g. around electrostatic coating systems) and pneumatically conveyed dust occur.
4. The connecting cable of the wall socket or the coupler socket type 8571/\*\*-\*\*\* shall be fixed and routed so that it will be adequately protected against mechanical damage.
5. Parts exceed 70 °C, temperature-resistant connecting cables shall be used.
6. Installation of electrical components requires a further assessment by an ExCB. This information must accompany each device in an adequate form.

The user shall be informed of the following conditions in an appropriate form, e.g. with a note included in the operating instructions:

“WARNING – DO NOT OPEN WHEN ENERGIZED”

“WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS”

“WARNING – IN ORDER TO ENSURE THE INGRESS PROTECTION IP, THE BAYONET RING OF THE PLUG MUST BE SCREWED UP TO THE STOP TO THE SOCKET AND THE HINGED COVER OF THE SOCKET MUST BE CLOSED AND SCREWED UP TO THE STOP WHEN THE PLUG IS NOT INSERTED. THE COVER OF THE TERMINAL COMPARTMENT MUST BE FASTENED WITH THE APPROPRIATE TORQUE”

“WARNING – TEMPERATURE AT THE ENTRY POINTS HIGHER THAN +70 °C. A PROPER SELECTION OF CABLE AND CABLE GLANDS OR CONDUCTORS IN CONDUIT IS REQUIRED”

The word “Warning” must be added to the text of the warning label.