<b>IECEX</b>	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							
Certificate No.:	IECEX PTB 21.0024X	(	Page 1 of 3	Certificate history:				
Status:	Current		Issue No: 0	,				
Date of Issue:	2022-04-12							
Applicant:	<b>R. STAHL Schaltgeräte GmbH</b> Am Bahnhof 30 74638 Waldenburg <b>Germany</b>							
Equipment:	Maintenance socket type 8571/51-*	**=*(=*)						
Optional accessory:								
Type of Protection:	Flameproof Enclosure "db", Increa	sed Safe	ty "eb" and Protection by Enclosure "tb"					
Marking:	Ex db eb IIC T6 … T5 Gb Ex tb IIIC T76 °C Db			a.				
· 4								
Approved for issue o Certification Body:	n behalf of the IECEx		DrIng. D. Markus					
Position:	•		Head of Departament "Explosion Protect Technology"	ion in Energy				
Signature: (for printed version) Date: (for printed version)			D. honlas 14.04.22	* *				
<ol> <li>This certificate and s</li> <li>This certificate is not</li> </ol>	chedule may only be reproduced in full. transferable and remains the property of the is enticity of this certificate may be verified by visi	suing body. ting www.ie	cex.com or use of this QR Code.					

Physikalisch-Technische Bundesanstalt Braunschweig und Berlin

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB) Bundesallee 100 38116 Braunschweig Germany

# IECEx Certificate of Conformity

Certificate No .:	IECEX PTB 21.0024X	Page 2 of 3
Date of issue:	2022-04-12	Issue No: 0
Manufacturer:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany	
Manufacturing locations:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany	
IEC Standard list belo found to comply with t Rules, IECEx 02 and STANDARDS :	w and that the manufacturer's quality sys he IECEx Quality system requirements.T Operational Documents as amended ny acceptable variations to it specified in t	sentative of production, was assessed and tested and found to comply with the stem, relating to the Ex products covered by this certificate, was assessed and 'his certificate is granted subject to the conditions as set out in IECEx Scheme the schedule of this certificate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipm	nent - General requirements
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipm	nent protection by flameproof enclosures "d"
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equip	ment dust ignition protection by enclosure "t"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipm	ent protection by increased safety "e"
	This Certificate <b>does not</b> indicate co other than those express	ompliance with safety and performance requirements sly included in the Standards listed above.
TEST & ASSESSME	NT REPORTS:	

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

**IECEx** 

DE/PTB/ExTR21.0037/00

Quality Assessment Report:

DE/BVS/QAR10.0002/17



# **IECEx Certificate** of Conformity

Certificate No.: IECEX PTB 21.0024X Page 3 of 3

Date of issue:

2022-04-12

Issue No: 0

#### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The maintenance socket type 8571/51-\*\*\*-\*(-\*) is used for connection of portable and fixed electrical equipment. The maintenance socket is explosion-protected electrical apparatus. They are used for commissioning portable and permanently installed non-explosion-protected electrical apparatus, or plugs and socket receptacles located within hazardous areas during periods when a potentially explosive atmosphere is not present (e.g. during repair and maintenance work).

The maintenance socket type 8571/51-\*\*\*-\*(-\*) is the same as the Wall Socket type 8571/\*\*-\*\*\* which have its own certificate according to IECEX.

For more information see annex.

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

The maintenance socket can only be used within hazardous areas during periods when a potentially explosive atmosphere is not present (e.g. during repair and maintenance work).

The maintenance socket can only be use by the plant operator or his authorized agents of the area.

The switch to activate the maintenance socket isolator shall be secured by means of a lock which can only be opened by the plant operator or his authorized agents of the area.

#### Annex:

COCA210024X-00.pdf



Attachment to Certificate IECEx PTB 21.0024 X, Issue 0



		9
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany	
Electrical Apparatus:	Maintenance socket type 8571/51-***-*(-*)	

### Description

The maintenance socket type 8571/51-\*\*\*-\*(-\*) is used for connection of portable and fixed electrical equipment.

The maintenance socket is explosion-protected electrical apparatus. They are used for commissioning portable and permanently installed non-explosion-protected electrical apparatus, or plugs and socket receptacles located within hazardous areas during periods when a potentially explosive atmosphere is not present (e.g. during repair and maintenance work).

The maintenance socket type 8571/51-\*\*\*-\*(-\*) is the same as the Wall Socket type 8571/\*\*-\*\*\* which have its own certificate according to IECEx.

#### Nomenclature

8571	1	*	*	-	*	**	-	*	(-*)
а	b	С	d		e	f		g	h

- a Type series
- b Version:
  - / complete device packed
  - A assembly internal
- c Version:

5 Maintenance Socket

d Design:

1 Wall mounting socket

- e Number of Poles:
  - 4 4 poles (3P + PE)
  - 5 5 poles (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 equipmentg special versions





# **Ambient temperature**

 $-50^{\circ}C \le Tamb \le +25^{\circ}C...+65^{\circ}C / T6 ... T5$  by current range 16 A ... 32 A

 $-50^{\circ}C \le \text{Tamb} \le +25^{\circ}C...+60^{\circ}C / T6 ... T5$  by current range 16 A ... 32 A valid for use of metal plate or terminal of auxiliary contact with adhesive D0213

### Service temperature

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

 $-50^{\circ}C \le Ts \le +75^{\circ}C$  (for the enclosure)

 $-50^{\circ}C \le Ts \le +95^{\circ}C$  valid for contact sleeve carrier

## Ingress protection according to IEC 60079-0, IEC 60079-7 and IEC 60079-31

#### IP64

Cover must be closed properly when plug is not inserted to maintain ingress protection. The plug shall be free from water and dust before is inserted to the flange socket.

# **Electrical Data**

#### Table 1: 8571/51

	Main contacts	Aundliemereenteete		
	4, 5 poles	Auxiliary contacts		
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 H	0 500 Hz		
Short-circuit protection	35 A gG (with thermal protection)			
Terminal capacity	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 con- tacts	1 or 2 x 0.5 2.5 mm² (20 14 AWG) solid or stranded			
PE conductor size	Same or larger than line / load cross section			

Bundesallee 100, 38116 Braunschweig, Germany Postfach 33 45, 38023 Braunschweig, Germany Telephone +49 531 592-0, Telefax +49 531 592-3605



Attachment to Certificate IECEx PTB 21.0024 X, Issue 0



÷	Main contacts	Auxiliary contacts		
	4, 5 poles			
	Terminals: 1.6 Nm, for 2	Terminals: 1.6 Nm, for 2 x 10 mm <sup>2</sup> : 2 Nm		
Tightening torque	Fixing screws of the flang	Fixing screws of the flange socket: 2.3 Nm		
	Fixing screws of the enclose	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. The maintenance socket type 8571/51-\*\*\*-\*(-\*) can only be used within hazardous areas during periods when a potentially explosive atmosphere is not present (e.g. during repair and maintenance work).
- 2. The maintenance socket type 8571/51-\*\*\*-\*(-\*) can only be use by the plant operator or his authorized agents of the area.
- 3. The switch to activate the maintenance socket shall be secure by means of a lock which can only be open by the plant operator or his authorized agents of the area.
- 4. Openings that are not used must be closed in compliance with the specifications of the standards listed on the cover sheet.
- 5. 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.
- 6. The maintenance socket type 8571/51-\*\*\*-\*(-\*) 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.
- 7. The connecting cable of the maintenance socket type 8571/51-\*\*\*-\*(-\*) shall be fixed and routed so that it will be adequately protected against mechanical damage.
- 8. 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 – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUC-TIONS"

"WARNING – USE ONLY BY THE PLANT OPERATOR OR HIS AUTHORIZED AGENTS OF THE AREA – 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 COM-PARTMENT MUST BE FASTENED WITH THE APPROPRIATE TORQUE"

"WARNING - THE MAINTENANCE SOCKET TYPE 8571/51-\*\*\*-\* IS TO BE SECURED FOR SWITCHING WITH THEHELP OF A PADLOCK. SWITCHING ON AND OPERATING THE





MAINTENANCE FLANGE SOCKET IS ONLY PERMITTED IF THERE IS NO EX-ATMOS-PHERE PRESENT.

Commissioning a maintenance socket type 8571/51-\*\*\*-\*requires the approval of the plant operator or his authorized agents.

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

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