	ECEX	ECEx Certificate of Conformity				
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com EX COMPONENT CERTIFICATE						
Certificate No.:	IECEX PTB 16.0028U	Page 1 of 4	Certificate history:			
Status:	Current	Issue No: 1	Issue 0 (2017-04-11)			
Date of Issue:	2020-03-03					
Applicant;	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany					
Ex Component:	Flange Socket type 8572/15-***_*					
	OT intended to be used alone and requires ad cplosive atmospheres (refer to IEC 60079-0).	ditional consideration when incorporated into	other equipment or			
Type of Protection:	Flameproof Enclosure "db", Increased Sa	afety "eb" and Protection by Enclosure "tb				
Marking:	Ex db eb IIC Gb and Ex tb III C Db					
Approved for issue o	n behalf of the IECEV	DrIng. Detlev Markus				
Certification Body:						
Position:		Head of Department "Explosion Protect Technology"	tion in Energy			
Signature: (for printed version)		D. halen	n			
Date:		R. R. 2010	х 			
 This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code. 						
Certificate issued Physikalisch-Te Bundesallee 100 38116 Braunsch Germany	chnische Bundesanstalt (PTB)		h-Technische Bundesanstalt eig und Berlin			

	ECEX	IECEx Certificate of Conformity			
Certificate No.:	IECEX PTB 16.0028U	Page 2 of 4			
Date of issue:	2020-03-03	Issue No: 1			
Manufacturer:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany				
Additional manufacturing locations:					
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 Edition:2	1:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"				
IEC 60079-7:2015 Edition:5.0	Explosive atmospheres – Part 7: E	quipment protection by increased safety "e"			
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/ExTR16.0050/01

Quality Assessment Report:

DE/BVS/QAR10.0002/15



IECEx Certificate of Conformity

Certificate No.: IECEX PTB 16.0028U

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Date of issue:

2020-03-03

Issue No: 1

Ex Component(s) covered by this certificate is described below:

Description of equipment

The series 8572/15 flange sockets are used for connection of portable and fixed electrical equipment as well as cables and circuits in potentially explosive atmospheres.

The flange sockets of type 8572/15 are components intended to be attached to Ex "eb" and Ex "tb" enclosures.

A staggered connector pin assignment safeguards that only plugs or socket contacts of identical voltage rating can be used together. The series 8572 receptacles are operated with plug of the series 8570, which have its own certificate according to IECEx and ATEX.

Technical Data, Nomenclature and Schedule of Limitations see Annex.

SCHEDULE OF LIMITATIONS:

"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 - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS"

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) 1) New test according to IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-7:2015 and IEC 60079-31:2013.

2) Addition of a 45° adapter for the flange socket.

Annex:

COCA160028U-01.pdf



Attachment to Certificate IECEx PTB 16.0028U, Issue 1



Applicant:

R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany

Electrical Apparatus:

Flange Socket 8572/15-***-*

Description of equipment

The series 8572/15 flange sockets are used for connection of portable and fixed electrical equipment as well as cables and circuits in potentially explosive atmospheres.

The flange sockets of type 8572/15 are components intended to be attached to Ex "eb" and Ex "tb" enclosures.

A staggered connector pin assignment safeguards that only plugs or socket contacts of identical voltage rating can be used together. The series 8572 receptacles are operated with plug of the series 8570, which have its own certificate according to IECEx and ATEX.

Nomenclature

8572	1	*	*	-	*	**	-	*
а	1	b	С	-	d	е	-	f

- a) Type series
- b) Version:
 - 1 = Standard
 - 2 = North America
- c) Desing:
 - 5 = Flange Socket compact
- d) Number of Poles: 3 = 2P + PE (3-pole)
- e) Code for pin orientation and voltage:
 - 02 = > 50 V, >300 500 Hz, green
 - 03 = > 50 110 V DC, light-grey
 - 04 = 100 130 V, 50 / 60 Hz, yellow
 - 05 = 277 V, 60 Hz, light-grey
 - 06 = 200 250 V, 50 / 60 Hz, blue
 - 12 = Secondary winding, supply of isolation transformer, 50 / 60Hz, blue
- f) Content of Silicon:

B = Silicon free

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



Attachment to Certificate IECEx PTB 16.0028U, Issue 1



Ambient temperature

 $\begin{array}{l} -50 \ ^{\circ}C \leq T_{amb} \leq +45 \ ^{\circ}C \ by \ max. \ 16 \ A \\ -50 \ ^{\circ}C \leq T_{amb} \leq +55 \ ^{\circ}C \ by \ max. \ 12 \ A \\ -50 \ ^{\circ}C \leq T_{amb} \leq +65 \ ^{\circ}C \ by \ max. \ 10 \ A \end{array}$

Service temperature

-50 °C \leq T_S \leq +80 °C (for enclosure)

-50 °C \leq T_S \leq +95 °C (for switch insert)

Electrical Data

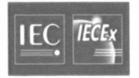
277 V AC / 110 V DC
max. 16 A
AC-3, 277 V, 16 A / DC-1, 110 V, 16 A
5060 Hz; up to 500 Hz
550 V
2.5 kV
10 kA
0.754 mm ² : 1 or 2 rigid or flexible wires
Same or larger than line / load cross section
4 mm ²
Terminals: 1.2 Nm

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

Maximum rated operating current depends on conductor cross section and ambient temperature

T _{amb}	≤ +45 °C	≤ +55 °C	≤ +65 °C
Rated operating current al-	16 A (4 mm ²)	12 A (4 mm ²)	10 A (4 mm ²)
lowed for conductor cross	16 A (2.5 mm ²)	12 A (2.5 mm ²)	10 A (2.5 mm ²)
section. Cross section is	10 A (1.5 mm ²)	7 A (1.5 mm ²)	6 A (1.5 mm ²)
shown in bracket.	8 A (1 mm²)	6 A (1 mm²)	5 A (1 mm²)
	6 A (0.75 mm²)	4 A (0.75 mm²)	3 A (0.75 mm²)

Physikalisch-Technische Bundesanstalt (PTB)





Mounting

The flange sockets of type 8572/15 are intended to be attached to Ex "eb" and Ex "tb" enclosures with a wall thickness no less than 1.5 mm for metal enclosures or housings and not less than 2.5 mm for non-metal enclosures or housings. Alternatively, a supporting metal frame at the inside of the Enclosure or housing shall be provided with a minimum thickness of 1.5 mm.

Notes for installation and operation

- The flange sockets of type 8572/15 shall be mounted on an enclosure that meets the requirements of an approved type of protection as specified in IEC 60079-0, section 1. The degree of protection IP will only be safeguarded if the unit is properly installed in the electrical equipment. They must be suited for the operating conditions and have a separate examination certificate.
- 2. If the flange socket type 8572/15 is attached to an enclosure of level of protection Increased Safety "e" in accordance with IEC 60079-7:2015, the clearance and creepage distances specified in section 4.3, section 4.4 and table 2 shall duly be complied with.
- 3. The connecting cable of the flange socket type 8572/15 shall be fixed and routed so that it will be adequately protected against mechanical damage.
- 4. If the temperature at the input parts exceeds 70 °C, temperature-resistant connecting cables shall be used.
- 5. Installation of electrical components requires a further assessment by an ExCB.

This information must accompany each device in an adequate form.

Schedule of Limitations

"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 – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUC-TIONS"

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