



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx PTB 16.0028U**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2020-03-03)

Issue 0 (2017-04-11)

Date of Issue: 2026-07-02

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

Ex Component: Flange Socket type 8572/15-***-*

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof Enclosure "db", Increased Safety "eb" and Protection by Enclosure "tb"**

Marking: Ex db eb IIC Gb and
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Stefan Essmann

Position:

Head of Department "Explosion Protection in Energy Technology"

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Manufacturing
locations: **R. STAHL Schaltgeräte GmbH**
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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 component 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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/PTB/ExTR16.0050/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/20](#)



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Date of issue: 2026-07-02

Issue No: 2

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:

Service temperature range:

-50 °C ≤ Ts ≤ +80 °C (for enclosure)

-50 °C ≤ Ts ≤ +95 °C (for switch insert)

The use of this component requires further assessment by an ExCB.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- 1) Standard update according to IEC 60079-0:2017 & IEC 60079-31:2022
- 2) New marking plate drawing
- 3) Addition of containing silicone in type nomenclature

Annex:

[COCA160028U-02.pdf](#)



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	/	*	*	-	*	**	-	*
a	/	b	c	-	d	e	-	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) Sealing material:
 - B = Silicon free
 - S = Containing Silicon



Ambient temperature

- $-50\text{ °C} \leq T_{\text{amb}} \leq +45\text{ °C}$ by max. 16 A
- $-50\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$ by max. 12 A
- $-50\text{ °C} \leq T_{\text{amb}} \leq +65\text{ °C}$ by max. 10 A

Service temperature

- $-50\text{ °C} \leq T_{\text{S}} \leq +80\text{ °C}$ (for enclosure)
- $-50\text{ °C} \leq T_{\text{S}} \leq +95\text{ °C}$ (for switch insert)

Electrical Data

Rated operational voltage:	277 V AC / 110 V DC
Rated operational current:	max. 16 A
Utilization category:	AC-3, 277 V, 16 A / DC-1, 110 V, 16 A
Rated frequency:	50...60 Hz; up to 500 Hz
Rated isolation voltage:	550 V
Rated impulse withstand voltage:	2.5 kV
Rated short-time withstand current:	10 kA
Terminal capacity:	0.75...4 mm ² : 1 or 2 rigid or flexible wires
PE conductor size:	Same or larger than line / load cross section
PA conductor size:	4 mm ²
Tightening torque:	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}	$\leq +45\text{ °C}$	$\leq +55\text{ °C}$	$\leq +65\text{ °C}$
Rated operating current allowed for conductor cross section. Cross section is shown in bracket.	16 A (4 mm ²)	12 A (4 mm ²)	10 A (4 mm ²)
	16 A (2.5 mm ²)	12 A (2.5 mm ²)	10 A (2.5 mm ²)
	10 A (1.5 mm ²)	7 A (1.5 mm ²)	6 A (1.5 mm ²)
	8 A (1 mm ²)	6 A (1 mm ²)	5 A (1 mm ²)
	6 A (0.75 mm ²)	4 A (0.75 mm ²)	3 A (0.75 mm ²)

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

1. The flange sockets 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 60079-7:2017, 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. 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.
6. The plug shall be free from e.g. water, snow, dust or dirt before it is inserted to the socket.
7. The flange socket type 8572/15 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.
8. Installation of electrical components requires a further assessment by an ExCB.

This information must accompany each device in an adequate form.

Schedule of Limitations:

Service temperature range

$-50\text{ °C} \leq T_s \leq +80\text{ °C}$ (for enclosure)

$-50\text{ °C} \leq T_s \leq +95\text{ °C}$ (for switch insert)

The use of this component requires further assessment by an ExCB.