



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

(2) Component Intended for Use in Potentially Explosive Atmospheres, **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 16 ATEX 1016 U

Issue: 2

(4) Component: Flange Socket Typ 8572/15-***-*

(5) Manufacturer: R. STAHL Schaltgeräte GmbH

(6) Address: Am Bahnhof 30, 74638 Waldenburg, Deutschland

(7) This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report PTB Ex 25-12149.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A1:2018, IEC 60079-31:2022-01

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This partial certification may be used as a basis for certification of an equipment or protective systems.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified component in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

(12) The marking of the component shall include the following:



II 2 G Ex db eb IIC Gb



II 2 D Ex tb IIIC Db

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, July 8, 2026

Dr.-Ing. S. Essmann
Direktor und Professor



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In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 16 ATEX 1016 U, Issue: 2**

(15) Description of Component

Changes:

- 1) Standard update according to EN IEC 60079-0:2018 and IEC 60079-31:2022
- 2) New marking plate drawing
- 3) Addition of containing silicone in type nomenclature

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 “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 ATEX and IECEx (PTB 19 ATEX 1006 X und IECEx PTB 19.0019 X).

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 / 60 Hz, blue
- f) Sealing Material:
 - B = Silicon free
 - S = Containing silicone

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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

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

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

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.

Ingress protection according to EN IEC 60079-0 and EN 60079-31

When mounted in a stainless steel enclosure and cover closed or plug inserted (without 45° adapter):	IP66
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When mounted in a plastic enclosure and cover closed or plug inserted (without 45° adapter):	IP66
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When mounted in a stainless steel enclosure and cover closed or plug inserted (with 45° adapter):	IP66
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When mounted in a plastic enclosure and cover closed or plug inserted (with 45° adapter):	IP64
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Cover must be closed thoroughly when plug is not inserted to maintain IP protection.

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

Notes for safe 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 EN 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 EN 60079-7:2015+A1:2018, 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.

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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.

(16) Test report PTB Ex 25-12149

(17) Notes for manufacture, installation and operation

Service temperature range

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

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

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

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

The standard IEC 60079-31:2022-01 is not yet listed as a harmonized European standard in the Official Journal of the EU. However, compliance with the essential health and safety requirements of Directive 2014/34 / EU is ensured since the IEC 60079-31:2022-01 standard has at least the same level of protection as the harmonized predecessor standard EN 60079-31:2014.