



# 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)

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx PTB 13.0047U**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2021-06-16)

Issue 3 (2019-06-14)

Issue 2 (2017-10-26)

Issue 1 (2015-07-13)

Issue 0 (2014-01-16)

Date of Issue: 2024-10-01

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

Ex Component: Actuator attachment type 8602\*3-\*\*\*\_\*\_\*\*\*\_\*\*\*\_\*\*\*\*

*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: **Increased Safety "eb" and Protection by Enclosure "tb"**

Marking: Ex eb IIC Gb and

Ex tb IIIC Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr.-Ing. D. 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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Page 2 of 4

Date of issue: 2024-10-01

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

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 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 60079-31:2022](#) 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/ExTR13.0066/05](#)

Quality Assessment Report:

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



# IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 13.0047U**

Page 3 of 4

Date of issue: 2024-10-01

Issue No: 5

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

The actuator attachments type 8602\*3-\*\*\*-\*\_-\*\*\*\_\*\*\*\_\*\*\*\*, mainly made of polyamide, can be mounted on any enclosure cover and enclosure wall of electrical equipment in the types of protection Increased Safety “eb” and Protection by Enclosure “tb”.

For nomenclature and technical data see annex.

**SCHEDULE OF LIMITATIONS:**

Coated protective metallic collars must not be used in areas that are affected by high charge producing processes, mechanical friction and separation processes, electron emission (e.g. near electrostatic coating equipment), and pneumatically conveyed dust.

Service temperature range:

-20 °C ≤ T<sub>S</sub> ≤ +60 °C (gasket D0114, D0117, D0129 and D0229), and

-60 °C ≤ T<sub>S</sub> ≤ +70 °C (gasket D0115, D0116, D0130 and D0131)

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



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Page 4 of 4

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

- 1) New test according to IEC 60079-0:2017, IEC 60079-7:2017 and IEC 60079-31:2022-01
- 2) Certification of a new coupling part made out of stainless steel
- 3) Certification of the new nut material
- 4) Position no. of drawings was adjusted but not the order of parts
- 5) New versions build of tested and existing Materials

**Annex:**

[COCA130047U-05.pdf](#)



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

Electrical Apparatus: Actuator attachment type 8602\*3-\*\*\*\_\*-\*\*\*\_\*\*\*\_\*\*\*\*

**Description:**

The actuator attachments type 8602\*3-\*\*\*\_\*-\*\*\*\_\*\*\*\_\*\*\*\*, mainly made of polyamide, can be mounted on any enclosure cover and enclosure wall of electrical equipment in the types of protection Increased Safety “eb” and Protection by Enclosure “tb”.

**Nomenclature:**

8602	*	3	-	***	-	*	-	***	-	***	-	****
1	2	3	-	4	-	5	-	6	-	7	-	8

- 1) Product Type / Series
- 2) Assembly
  - / = Complete actuator
  - A = Assembly internal
  - C = Customer assembly
- 3) Version
- 4) Design (see Appendix)
- 5) Gasket
  - B = NBR
  - S = Silicon
- 6) Switching function / lockable position / color filter / potentiometer-actuator scale
- 7) Switching position
- 8) Lock cylinder

**Technical data:**

Mounting on enclosure with wall thicknesses	Metallic enclosures: from 1.5 mm to 5 mm Plastic enclosures: from 2.5 mm to 5 mm
Diameter of the through bore-hole	30.5 mm
Torque of the threaded ring	3 Nm
Maximum permissible service temperature range	-20°C ≤ T <sub>s</sub> ≤ +60°C (Seal D0114, D0117, D0129 and D0229) and -60°C ≤ T <sub>s</sub> ≤ +70°C (Seal D0115, D0116, D0130 and D0131)

Design			
Type	Designation	Sealing material	Front piece material
8602*3-001-S-***_***_****	Push button	D0131 D0115	D0012
8602*3-001-S-***_***_****		D0131 D0115	D0010
8602*3-001-B-***_***_****		D0229 D0114	D0012
8602*3-001-B-***_***_****		D0117 D0114	D0010
8602*3-054-S-***_***_****	Indicator lamp bezel	D0115	D0012
8602*3-054-B-***_***_****		D0114	D0012
8602*3-728-S-***_***_****	Rotary actuator, large, increased height, black-black	D0116 D0115	D0012
8602*3-728-S-***_***_****		D0116 D0115	D0010
8602*3-728-B-***_***_****		D0117 D0114	D0012
8602*3-729-S-***_***_****	Rotary actuator, large, increased height, black-black	D0116 D0115	D0012
8602*3-729-S-***_***_****		D0116 D0115	D0010
8602*3-729-B-***_***_****		D0117 D0114	D0012
8602*3-730-S-***_***_****	Rotary actuator, large, red-yellow	D0116 D0115	D0012
8602*3-730-S-***_***_****		D0116 D0115	D0010
8602*3-730-B-***_***_****		D0117 D0114	D0012
8602*3-731-S-***_***_****	Rotary actuator, large, black-black	D0116 D0115	D0012
8602*3-731-S-***_***_****		D0116 D0115	D0010
8602*3-731-B-***_***_****		D0117 D0114	D0012
8602*3-735-S-***_***_****	Illuminated push button	D0131 D0115	D0012
8602*3-735-B-***_***_****		D0229 D0114	D0012
8602*3-735-B-***_***_****		D0117 D0114	D0012
8602*3-023-S-***_***_****	Twin push button	D0131 D0115	D0010
8602*3-023-B-***_***_****		D0229 D0114	D0010
8602*3-023-B-***_***_****		D0117	D0010



<b>Design</b>			
Type	Designation	Sealing material	Front piece material
		D0114	
8602*3-092-S-***_***_****	Potentiometer attachment	D0116 D0115	D0012
8602*3-092-B-***_***_****		D0117 D0114	D0012
8602*3-727-S-***_***_****	Rotary actuator axial, lockable pad with 2 or 3 switching positions	D0116 D0115	D0010
8602*3-727-S-***_***_****		D0116 D0115	D0012
8602*3-727-B-***_***_****		D0117 D0114	D0012
8602*3-726-S-***_***_****	Rotary actuator axial with 2 or 3 switching positions	D0116 D0115	D0010
8602*3-726-S-***_***_****		D0116 D0115	D0012
8602*3-726-B-***_***_****		D0117 D0114	D0012
8602*3-732-S-***_***_****	Rotary actuator small	D0116 D0115	D0010
8602*3-732-S-***_***_****		D0116 D0115	D0012
8602*3-732-B-***_***_****		D0117 D0114	D0012
8602*3-764-S-***_***_****	Rotary actuator small, lockable	D0116 D0115	D0010
8602*3-764-S-***_***_****		D0116 D0115	D0012
8602*3-764-B-***_***_****		D0117 D0114	D0012
8602*3-734-S-***_***_****	Rotary actuator small, lockable	D0116 D0115	D0010
8602*3-734-S-***_***_****		D0116 D0115	D0012
8602*3-734-B-***_***_****		D0117 D0114	D0012
8602*3-762-S-***_***_****	Rotary actuator small	D0116 D0115	D0010
8602*3-762-S-***_***_****		D0116 D0115	D0012
8602*3-762-B-***_***_****		D0117 D0114	D0012
8602*3-736-S-***_***_****	Rotary actuator, maxi, black-black	D0116 D0115	D0010
8602*3-736-S-***_***_****		D0116 D0115	D0012
8602*3-736-B-***_***_****		D0117	D0012

<b>Design</b>			
Type	Designation	Sealing material	Front piece material
		D0114	
8602*3-737-S-***-***-****	Rotary actuator, maxi, red-yellow	D0116 D0115	D0010
8602*3-737-S-***-***-****		D0116 D0115	D0012
8602*3-737-B-***-***-****		D0117 D0114	D0012
8602*3-738-S-***-***-****	Rotary actuator, maxi axial, black-black, with 2 or 3 switching positions	D0116 D0115	D0010
8602*3-738-S-***-***-****		D0116 D0115	D0012
8602*3-738-B-***-***-****		D0117 D0114	D0012
8602*3-739-S-***-***-****	Rotary actuator, maxi axial, red-yellow, with 2 or 3 switching positions	D0116 D0115	D0010
8602*3-739-S-***-***-****		D0116 D0115	D0012
8602*3-739-B-***-***-****		D0117 D0114	D0012
8602*3-746-S-***-***-****	Rotary actuator, maxi-strong, black-black	D0116 D0115	D0010
8602*3-746-S-***-***-****		D0116 D0115	D0012
8602*3-746-B-***-***-****		D0117 D0114	D0012
8602*3-747-S-***-***-****	Rotary actuator, maxi-strong, red-yellow	D0116 D0115	D0010
8602*3-747-S-***-***-****		D0116 D0115	D0012
8602*3-747-B-***-***-****		D0117 D0114	D0012
8602*3-766-S-***-***-****	Rotary actuator, maxi, black-black	D0116 D0115	D0010
8602*3-766-S-***-***-****		D0116 D0115	D0012
8602*3-766-B-***-***-****		D0117 D0114	D0012
8602*3-767-S-***-***-****	Rotary actuator, maxi, red-yellow	D0116 D0115	D0010
8602*3-767-S-***-***-****		D0116 D0115	D0012
8602*3-767-B-***-***-****		D0117 D0114	D0012
8602*3-008-S-***-***-****	Key operated switch KMS with 2 or 3 switching positions	D0116 D0115	D0010
8602*3-008-S-***-***-****		D0116	D0012

Design			
Type	Designation	Sealing material	Front piece material
		D0115	
8602*3-008-B-***_***_****		D0117 D0114	D0012
8602*3-003-S-***_***_****	Mushroom push button, black Ø38	D0131 D0115	D0010
8602*3-003-S-***_***_****		D0131 D0115	D0012
8602*3-003-B-***_***_****		D0229 D0114	D0012
8602*3-003-B-***_***_****		D0117 D0114	D0012
8602*3-004-S-***_***_****		Mushroom push button, red Ø38	D0131 D0115
8602*3-004-S-***_***_****	D0131 D0115		D0012
8602*3-004-B-***_***_****	D0229 D0114		D0012
8602*3-004-B-***_***_****	D0117 D0114		D0012
8602*3-014-S-***_***_****	Mushroom push button, red Ø55	D0131 D0115	D0010
8602*3-014-S-***_***_****		D0131 D0115	D0012
8602*3-014-B-***_***_****		D0229 D0114	D0012
8602*3-014-B-***_***_****		D0117 D0114	D0012
8602*3-015-S-***_***_****	Mushroom stay-put button Emergency Stop, Ø55	D0131 D0115 D0130	D0010
8602*3-015-S-***_***_****		D0131 D0115 D0130	D0012
8602*3-015-B-***_***_****		D0229 D0114 D0129	D0012
8602*3-015-B-***_***_****		D0117 D0114 D0129	D0012
8602*3-703-S-***_***_****		Mushroom push button, black Ø55	D0131 D0115
8602*3-703-S-***_***_****	D0131 D0115		D0012
8602*3-703-B-***_***_****	D0229 D0114		D0012
8602*3-703-B-***_***_****	D0117		D0012

Design			
Type	Designation	Sealing material	Front piece material
		D0114	
8602*3-712-S-***-***-****	Mushroom push button, black Ø55	D0131 D0115	D0010
8602*3-712-S-***-***-****		D0131 D0115	D0012
8602*3-712-B-***-***-****		D0229 D0114	D0012
8602*3-712-B-***-***-****		D0117 D0114	D0012
8602*3-010-S-***-***-****	Mushroom stay-put button, Emergency Stop	D0131 D0115 D0130	D0012
8602*3-010-S-***-***-****		D0131 D0115 D0130	D0010
8602*3-010-B-***-***-****		D0229 D0114 D0129	D0012
8602*3-010-B-***-***-****		D0117 D0114 D0129	D0012
8602*3-012-S-***-***-****	Mushroom stay put button , black	D0131 D0115 D0130	D0012
8602*3-012-S-***-***-****		D0131 D0115 D0130	D0010
8602*3-012-B-***-***-****		D0229 D0114 D0129	D0012
8602*3-012-B-***-***-****		D0117 D0114 D0129	D0012
8602*3-009-S-***-***-****	Mushroom stay-put button with key lock, Emergency Stop	D0131 D0115 D0130	D0012
8602*3-009-S-***-***-****		D0131 D0115 D0130	D0010
8602*3-009-B-***-***-****		D0229 D0114 D0129	D0012
8602*3-009-B-***-***-****		D0117 D0114 D0129	D0012
8602*3-006-S-***-***-****		D0131	D0012

Design			
Type	Designation	Sealing material	Front piece material
		D0115 D0130	
8602*3-006-S-***-***-****	Mushroom stay-put button with key lock, black	D0131 D0115 D0130	D0010
8602*3-006-B-***-***-****		D0229 D0114 D0129	D0012
8602*3-006-B-***-***-****		D0117 D0114 D0129	D0012
8602*3-733-B-***-***-****	Closure part	D0114	D0012
8602*3-733-S-***-***-****		D0115	D0012

Actuator with additional accessories, such as protective collar: 8602\*3-751-\* and Locking devices: 8602\*3-752-\*, 8602\*3-753-\*, 8602\*3-754-\*, 8602\*3-755-\*, 8602\*3-756-\* & 8602\*3-758-\*, are designed to be fixed without impairing the IP level of each model.

#### Notes for installation and operation:

1. The actuator attachment type 8602\*3-\*\*\*-\*\*\*-\*\*\*-\*\*\*\* shall be installed in an enclosure that meets the requirements of an approved type of protection in accordance with IEC 60079-0, section 1.
2. The degree of protection according to IEC 60079-0, IEC 60079-7 and IEC 60079-31 will only be safeguarded if the component is properly installed in the electrical equipment. Electrical equipment must be suited for the operating conditions and have a separate examination certificate.
3. Each actuator attachment type 8602\*3-\*\*\*-\*\*\*-\*\*\*-\*\*\*\* shall be placed by the threaded part into the corresponding bore-hole ( $\varnothing$  30.5 mm) of an enclosure cover or enclosure wall and shall be fixed with a threaded ring and the appropriate torque.
4. For information about the enclosure cover thickness or enclosure wall thickness in mm for the different actuator attachments please see the technical data.
5. The torque of the threaded ring of the actuator attachment must be checked during revision work.
6. The types of protection can be ensured only, if the information and instructions provided by the manufacturer are followed and the items are properly installed in the enclosure, the enclosure cover and/or the electrical equipment.
7. When installing the component in the electrical equipment, measures must be taken to ensure that the temperatures at the place of installation remain within the range of ambient temperatures.
8. The installation of electrical components is subject to re-assessment by a notified body.



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This information must accompany each device in an adequate form.

**Schedule of Limitations:**

Coated protective metallic collars must not be used in areas that are affected by high charge producing processes, mechanical friction and separation processes, electron emission (e.g. near electrostatic coating equipment), and pneumatically conveyed dust.

Service temperature range:

$-20\text{ °C} \leq T_s \leq +60\text{ °C}$  (gasket D0114, D0117, D0129 and D0229), and

$-60\text{ °C} \leq T_s \leq +70\text{ °C}$  (gasket D0115, D0116, D0130 and D0131)

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