



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx PTB 06.0083U Issue No: 2 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 2 (2019-09-06)
Date of Issue: **2019-09-06** Issue No. 1 (2011-12-14)
Applicant: **R. STAHL Schaltgeräte GmbH** Issue No. 0 (2006-09-07)
Am Bahnhof 30
74638 Waldenburg (Württ.)
Germany
Ex Component: **Bezel for measuring and indicating devices, type 8603/****

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", protection by enclosures "tb"**

Marking:

Ex eb IIC Gb
Ex tb III C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Detlev Markus

Position:

Head of Department "Explosion Protection in Energy Technology"

Signature:
(for printed version)

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No: IECEx PTB 06.0083U Issue No: 2
Date of Issue: 2019-09-06 Page 2 of 4
Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg (Württ.)
Germany

Additional Manufacturing location(s):

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 Component 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 Ex 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 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2
IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

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

Test Report:

[DE/PTB/ExTR06.0100/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/14](#)



IECEX Certificate of Conformity

Certificate No: IECEX PTB 06.0083U

Issue No: 2

Date of Issue: 2019-09-06

Page 3 of 4

Schedule

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

SCHEDULE OF LIMITATIONS:

When installing the component into an electrical equipment it has to be considered that the temperatures at the mounting place are within the temperature range of use.

Service temperature range:

$$-60\text{ °C} \leq T_S \leq +76\text{ °C}$$

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



IECEX Certificate of Conformity

Certificate No: IECEx PTB 06.0083U

Issue No: 2

Date of Issue: 2019-09-06

Page 4 of 4

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

New test according to IEC 60079-0:2017, IEC 60079-7:2015 and IEC 60079-31:2013.

Annex:

[COCA060083U-02.pdf](#)



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

Electrical Apparatus: Bezel for measuring and indicating devices type 8603/**

Description

The bezel for measuring and indicating devices type 8603/** mainly consist of a polyamide frame with a glass window. The mounting is made by four screws for type 8603/1*, 8603/2* and 8603/3* and six screws for type 8603/4*. The bezels serve for the installation into enclosure covers and enclosure walls of electrical equipment with the type of protection Increased Safety "eb" and Protection by Enclosures "tb".

Nomenclature

8603	/	*	*
a		b	c

- a) Type series
b) Size
 1 = 64 mm x 64 mm
 2 = 72 mm x 72 mm
 3 = 95 mm x 95 mm
 4 = 122 mm x 66 mm
c) Details not relevant for the explosion protection.

Technical data

Mounted in enclosures with wall thickness:	Metallic enclosures: from 1.5 mm to 4 mm Plastic enclosures: from 2.5 mm to 4 mm
Dimensions of the hole	Type 8603/1* = 46 mm x 42 mm Type 8603/2* = 55 mm x 55 mm Type 8603/3* = 73 mm x 73 mm Type 8603/4* = 100 mm x 45 mm
Torque of the fixing screws	1.2 Nm
Maximum permissible service temperature range	-60 °C ≤ T _s ≤ +76 °C



Notes for safe operation

1. The bezel for measuring and indicating devices type 8603/** shall be installed in an enclosure that meets the requirements of an approved type of protection in accordance with IEC 60079-0:2017, section 1.
2. The degree of protection according to IEC 60079-0:2017, IEC 60079-7:2015 and IEC 60079-31:2013 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. For information about the enclosure cover thickness or enclosure wall thickness in mm for the different bezels please see the technical data.
4. The torque of the fixing screws must be checked during revision work.
5. 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.
6. 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 service temperatures.
7. The installation of components is subject to re-assessment by a notified body.

This information must accompany each device in an adequate form.

Schedule of Limitations

Service temperature range:

$$-60\text{ °C} \leq T_s \leq +76\text{ °C}$$

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