



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 06.0050U issue No.:2  
Status: **Current**  
Date of Issue: **2012-11-12** Page 1 of 5

Certificate history:  
Issue No. 2 (2012-11-12)  
Issue No. 1 (2012-1-26)  
Issue No. 0 (2006-7-24)

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

Electrical Apparatus: **Rotary actuator type 8604/1-\*.\*\*\***  
*Optional accessory:*

Type of Protection: **Increase Safety "e", Protection by enclosure "tb"**

Marking: Ex e IIC Gb or Ex eb IIC  
Ex tb IIIC Db or Ex tb IIIC

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dr.-Ing. Uwe Klausmeyer

*Position:*

Head of Section "Flameproof Enclosures"

*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.

Certificate issued by:

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





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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 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 electrical apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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 equipment listed has successfully met the examination and test requirements as recorded in*

##### Test Report:

DE/PTB/ExTR06.0082/01

##### Quality Assessment Report:

DE/BVS/QAR10.0002/02



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The rotary actuator, type 8604/1-\*-\*\*\*, will be installed in walls and covers of enclosures for electrical equipment or in control boards, which may be designed to type of protection Increased Safety "e" and Protection by enclosures "tb".

#### Schedule of Limitations

The type of protection will be only safeguarded when due consideration is given to the instructions provided by the manufacturer. It also presupposes proper installation in the enclosure, the enclosure cover or in the control board. Installation in the electrical apparatus shall be made such that the local temperatures will be within the operating temperature range.

For use in zone 1, explosion group IIC, the knob lever shall be provided with the warning: "Only use moist cloth for cleaning!" on the lever and in the instructions for operation.

Installation of components requires assessment by an ExCB.

### CONDITIONS OF CERTIFICATION: NO



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## EQUIPMENT(continued):

### Technical data

Suitable for equipment of equipment group II with a degree of mechanical hazard:	high
Temperature range for use	-60 °C to +80°C
Degree of Protection:	IP66

### Nomenclature

8604	1	-	*	-	***
1	2		3		4

- 1) type series
- 2) design = 1
- 3) frame size  
1 = size 1  
2 = size 2  
3 = size 3
- 4) additional information without reference to explosion-protection



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

- 1) Minimum temperature is decreased to -60 °C.
- 2) New test according to IEC 60079-0:2011 (Ed. 6), IEC 60079-7:2006 (Ed. 4), IEC 60079-31:2008 (Ed.1)
- 3) New marking