



# 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 05.0013** issue No.:2  
Status: **Current**  
Date of Issue: **2013-05-31** Page 1 of 4

Certificate history:  
Issue No. 2 (2013-5-31)  
Issue No. 1 (2012-1-26)  
Issue No. 0 (2005-6-8)

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

Electrical Apparatus: **Stopping Plug, type 8290/3-\*\*\***  
*Optional accessory:*

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

Marking: Ex e IIC Gb  
Ex tb IIIC Db  
service temperatur: -60 °C to +80 °C

*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  
Germany  
**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*

IECEx ATR:  
**DE/PTB/ExTR12.0087/00**  
**DE/BVS/QAR10.0002/02**

File Reference:  
**B993133, B993133A**



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## Schedule

### EQUIPMENT:

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

#### Description of equipment:

The stopping plug, Type 8290/3-\*\*\* consists of polyamide, to lockholes with or without threads in enclosures in type of Increased Safety "e" and Protection by Enclosure "tb".

For more information see annex.

### CONDITIONS OF CERTIFICATION: NO



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

### Details of certificate changes:

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



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

Electrical Apparatus: Stopping plug, Type 8290/3-\*\*\*

### Description of equipment:

The stopping plug, Type 8290/3-\*\*\* consists of polyamide, to lock holes with or without threads in enclosures in type of Increased Safety "e" and protection of "tb".

### Technical data:

Sizes Stopping plug 8290/3-***	Thread diameter	Thread pitch
8290/3 M 16	16 mm	1,5 mm
8290/3 M 20	20 mm	1,5 mm
8290/3 M 25	25 mm	1,5 mm
8290/3 M 32	32 mm	1,5 mm
8290/3 M 40	40 mm	1,5 mm
8290/3 M 50	50 mm	1,5 mm
8290/3 M 63	63 mm	1,5 mm

Temperature range for use	-60°C to +80°C
Suitable for equipment of equipment group II with a degree of mechanical hazard:	high
Minimum wall thickness	≥ 3 mm (thread hole) 1 mm to 7 mm (through hole)
Protection against contact, foreign matter and water	IP66 in accordance with IEC 60529



**Nomenclature:**

<b>8290</b>	/	<b>3</b>	-	*	**
1		2		3	4

- 1.) type
- 2.) design
- 3.) type of thread  
M=metric thread
- 4.) thread size  
16=16x1,5mm  
20=20x1,5mm  
25=25x1,5mm  
32=32x1,5mm  
40=40x1,5mm  
50=50x1,5mm  
63=63x1,5mm

**Notes for installation:**

The nut used to fix the stopping plug must be made of metal or suitable molded plastic. The surface of the enclosure and walls into which the plugs are fitted must be clean, flat and free of scoring.