



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

Certificate No.: IECEx PTB 06.0046 issue No.:2
 Status: **Current**
 Date of Issue: **2012-02-08** Page 1 of 4

Certificate history:
 Issue No. 2 (2012-2-8)
 Issue No. 1 (2007-9-3)
 Issue No. 0 (2006-6-30)

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

Electrical Apparatus: **Terminal box, type 8146/1***.** and 8146/2***.****
 Optional accessory:

Type of Protection: **Increased safety "e", Flameproof enclosures "d", Intrinsic safety "i", Encapsulation "m", Protection by enclosures "tb"**

Marking: Ex d e ia ib [ia Ga] mb IIA, IIB, IIC T6, T5, T4 Gb
 or
 Ex db eb ia ib [ia] mb IIA, IIB, IIC T6, T5, T4
 Ex tb IIIC T80 °C, T95 °C or T130 °C
 or
 Ex tb IIIC T80 °C, T95 °C or T130 °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](http://www.iecex.com).

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:

| | |
|--------------------------------------------|--------------------------------------------------------------------------------------|
| IEC 60079-0 : 2011 Edition: 6.0 | Explosive atmospheres - Part 0: General requirements |
| IEC 60079-1 : 2007-04 Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-11 : 2006 Edition: 5 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-18 : 2009 Edition: 3 | Explosive atmospheres Part 18: Equipment protection by encapsulation "m" |
| IEC 60079-31 : 2008 Edition: 1 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't' |
| IEC 60079-7 : 2006-07 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/ExTR06.0061/02](#)

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

The terminal box of types 8146/1***_** and 8146/2***_** is a polyester-resin housing designed to type of protection Increased safety "e" and Protection by enclosure "tb". It is used to house terminals for intrinsically safe and non-intrinsically safe circuits and may optionally be provided with disconnect terminals, fuses, busbar and bolt-type screw terminals.

The intrinsically safe circuits will be marked e.g. by a special colour (light-blue) or a warning label.

Connection will be made by means of explosion-protected cable glands.

The enclosure as well as any installed and attached components have been tested and certified under a separate test certificate.

Annex

Technical data, nomenclature and notes for installation and use: See Attachment.

Tables of the maximum number of conductors depending on the cable size and permitted current: See Supplementary Sheets Issue 2.

CONDITIONS OF CERTIFICATION: NO



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

- 1) The ambient temperature is increased from -60 °C to +100 °C
- 2) New test according to the standards:
IEC 60079-0:2011 (Ed. 6), IEC 60079-1:2007 (Ed. 6), IEC 60079-7:2006 (Ed. 4),
IEC 60079-11:2006 (Ed. 5), IEC 60079-18:2009 (Ed. 3), IEC 60079-31:2008 (Ed. 1)
- 3) New marking

Annexe: [Annex-IECEx PTB 06.0046-Issue 2.pdf](#), [Supplementary_sheet_Issue 2.pdf](#)