



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 06.0011U

Issue No: 3

Certificate history:

Issue No. 3 (2019-01-31)

Issue No. 2 (2014-08-21)

Issue No. 1 (2012-12-18)

Issue No. 0 (2006-02-24)

Status: **Current**

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Date of Issue: **2019-01-31**

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

Equipment: **Contact element / Isolating terminal, type 8082/*-*.****

Optional accessory:

Type of Protection: **Flameproof enclosure "d", Increased Safety "e"**

Marking:

Ex db eb IIC Gb

Ex db eb I Mb

*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:

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
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 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 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0
IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0
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 equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/PTB/ExTR06.0014/03](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The contact element or isolation terminal, Type 8082/ *-*-**, is a flameproof encapsulated electrical switching element. It is used to connect or disconnect load, control and signal circuits in zone 1 and 2 hazardous locations. Termination could be made either by screw terminals or by screwless terminals – cage clamp terminals.

Technical data and nomenclature see annex.

SPECIFIC CONDITIONS OF USE: NO



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

Validation of the component in accordance to the current standards.



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Additional information:

Annex:

[COCA060011U-3.pdf](#)



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

Equipment: Contact element or isolation terminal Type 8082/*-*-**

Description:

The contact element or isolation terminal, Type 8082/*-*-**, is a flameproof encapsulated electrical switching element. It is used to connect or disconnect load, control and signal circuits in zone 1 and 2 hazardous locations. Termination could be made either by screw terminals or by screwless terminals — cage clamp terminals.

Nomenclature

8082	/	*	-	*	-	**
a		b	-	c	-	d

- a) Type series
- b) Version
 - 1 - Screw type terminal
 - 2 - Cage clamp terminal
- c) Contact loadings
 - NC = 1
 - NO = 2
- d) Non Ex relevant details

Technical data

Rated isolation voltage	max. 500 V	max. 500 V	max. 500 V
Rated operational voltage	max. 110 V	max. 400 V	max. 550 V
Rated current I_e ($T_{amb} \leq 70 \text{ °C}$, T6)	max. 6 A	max. 6 A	max. 6 A
Rated current I_e ($T_{amb} \leq 60 \text{ °C}$, T6)	max. 10 A	max. 10 A	max. 10 A
Switching capacity	max. 110 W	max. 1000 VA	max.3000 VA
Category of use	DC 13	AC 15	AC 12
Rated cross-section maximum	2.5 mm ²	2.5 mm ²	2.5 mm ²

Classification applicable temperature classes

Temperature classes given below were calculated based on the surrounding ambient temperature of the component. Temperature classes depend on operating current, conductor cross section and Installation.

Max. voltage	Max. current	Ambient temp. max. +40 °C	Ambient temp. max. +70 °C	Ambient temp. max. +85 °C
550 V	6 A	+45.2 °C (T6)	+75.2 °C (T6)	+90.2 °C (T5)
550V	10A	+51.6°C(T6)	+81.6°C(T5)	+96.6°C(T5)



Notes for installation and operation

1. The contact element type 8082/*-*-** 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. When installing the contact element in an enclosure designed to type of protection Increased Safety "e" as specified in IEC 60079-7:2015, the clearance and creepage distances shown in section 4.3, section 4.4, and table 2 shall be duly considered.
3. The connecting cables of the contact element type 8082/*-*-** shall be fixed and routed so that it will be adequately protected against mechanical damage.

This information must accompany each device in an adequate form.

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