



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 07.0027U	Issue No: 3	<u>Certificate history:</u> Issue No. 3 (2016-02-18) Issue No. 2 (2013-05-31) Issue No. 1 (2010-05-19) Issue No. 0 (2007-06-04)
Status:	Current	Page 1 of 4	
Date of Issue:	2016-02-18		
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		
Electrical Apparatus: <i>Optional accessory:</i>	Ex d Enclosure type 8265/0*-*** and 8265/6*-***		
Type of Protection:	Flameproof enclosure "d", Increased Safety "e", Protection by enclosure "tb"		
Marking:	Ex db IIC Gb resp. Ex db eb IIC Gb Ex tb IIIC Db		

Approved for issue on behalf of the IECEx
Certification Body:

Dr. Ing. Uwe Klausmeyer

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:



IECEX Certificate of Conformity

Certificate No: IECEx PTB 07.0027U Issue No: 3
Date of Issue: 2016-02-18 Page 2 of 4
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 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 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	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/ExTR10.0031/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/07](#)



IECEX Certificate of Conformity

Certificate No: IECEx PTB 07.0027U

Issue No: 3

Date of Issue: 2016-02-18

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The empty enclosure type 8265/0*-*** and 8265/6*-*** is made of aluminium and provided with a screw-on cover. It is designed to accommodate switching and control gear, measuring equipment and display units. It can be optionally equipped with a window in different sizes and a terminal box in the type of protection Increased Safety "e" and Protection by Enclosure "tb".

For more information see Annex.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No: IECEx PTB 07.0027U

Issue No: 3

Date of Issue: 2016-02-18

Page 4 of 4

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

- 1) New test according to IEC 60079-0:2011 (Ed. 6), IEC 60079-1:2014 (Ed. 7), IEC 60079-7:2015 (Ed. 5), IEC 60079-31:2013 (Ed. 2).
- 2) Additional window (D0144-00) manufacture for type 8265/02.
- 3) New adhesive material (D0143-00) to cement the window to the cover of the Ex d Enclosure.
- 4) Extension of the upper temperature for type 8265/02 from +60 °C to +130 °C.

Annex:

[COCA070027U-03.pdf](#)



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

Electrical Apparatus: Ex d Enclosure type 8265/0*-*-* and 8265/6*-*-*

Description of equipment

The Ex d Enclosures type 8265/0*-*-* and 8265/6*-*-* are made of aluminium and provided with a screw-on cover. They are designed to accommodate switching and control gear, measuring equipment and display units. They can be optionally equipped with a window in different sizes and a terminal box in the type of protection Increased Safety "e" and Protection by Enclosure "tb".

Nomenclature

8265	/	*	*	-	*	*	*
1)	/	2)	3)	-	4)	5)	6)

- 1.) Type / Series
- 2.) Version:
0 = Flameproof enclosure
6 = Triple certified enclosure
- 3.) Dimensions (Length x Width x Height):
1 = 125 x 125 x 132 mm
2 = 155 x 155 x 132 mm
3 = 195 x 195 x 172 mm
4 = 236 x 236 x 227 mm
5 = 285 x 285 x 230 mm
6 = 335 x 335 x 281 mm
- 4.) Further particulars unrelated to the explosion protection

Technical data

Type	Width [mm]	Length [mm]	Height [mm]	Free volume approx. [dm ³]	Surface [m ²]
8265/01-**	125	125	132	0.97	9.7
8265/02-**	155	155	132	1.67	13.0
8265/03-**	195	195	172	3.9	21.0
8265/04-**	236	236	227	8.1	32.6
8265/05-**	285	285	230	11.46	42.5
8265/*6-**	335	335	281	20.88	60.1



Window sizes:

Type	Size	Diameter [mm]	Thickness [mm]	Cut-out dimensions in Cover (diameter) [mm]
8265/01-**	1	90	12	≤ 68
8265/02-** ¹⁾	2	90	16	≤ 68
8265/02-**	3	130	15	≤ 105
8265/03-**	4	168	19	≤ 141
8265/04-**	5	220	19	≤ 188
8265/05-**	6	220	19	≤ 186
8265/*6-**	7	220	19	≤ 186

Rated ambient temperature range

Max. -50 °C to +60 °C with gasket D0073 and/or cement D0104 and/or D0143

Max. -60 °C to +60 °C with gasket D0084 and/or cement D0104 and/or D0143

Max. -60 °C to +130 °C with cement D0143, type 8265/02 without O-ring at $T_{amb} > +60$ °C

Maximum number of openings

The maximum number of openings, also the position and sizes described in drawing 8265 0 000 003 and 8265 0 000 004.

Notes for installation and operation

The Ex d Enclosure may also be connected by means of suitable cable entries or conduit systems, which meet the requirements of IEC 60079-1 and for which a separate examination certificate has been issued.

Any openings that are not used shall be closed as specified in IEC 60079-1.

Painted/coated Ex d Enclosures or parts of the Ex d Enclosure may not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

The windows glass D0144-00 has to be protected by the protective guard no. 250879 for type 8265/5-02, as shown in drawing 8265 0 00 05 0.

For Ex d Enclosures, intended to be installed in hazardous dust areas (Ex tb IIIC Db), O-ring is suitable to be used between the enclosure and cover, for ambient temperatures, surrounding the enclosure, of up to +60 °C.

The Ex d Enclosure with Flameproof Enclosure “d” as the primary type of protection can optionally be used without or with a terminal box of Increased Safety “e” and Protection by Enclosure “tb” type of protection, certified with a separate examination certificate.

Installation of electrical components requires a further assessment by an ExCB.



Routine test

For the IEC 60079-1 routine test, the static overpressure values in the table below shall be applied.

Version with solid cover:

Ex d enclosure size	Reference pressure	IIC at -20 °C	IIC at -60 °C
8265/01	895 kPa	Routine test not required	Routine test not required
8265/02	895 kPa		
8265/03	871 kPa		
8265/04	953 kPa		Routine test required with 2300 kPa for 10 s
8265/05	953 kPa		
8265/06	946 kPa		

Version with cover with window:

Ex d enclosure size	Reference pressure	IIC at -20 °C	IIC at -60 °C
8265/01	895 kPa	Routine test not required	Routine test not required
8265/02	895 kPa		
8265/03	871 kPa		
8265/04	953 kPa		Routine test required with 2300 kPa for 10 s
8265/05	953 kPa		
8265/06	946 kPa		