



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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEx PTB 06.0067U

Issue No: 4

Certificate history:

Status: **Current**

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Issue No. 4 (2018-08-29)

Date of Issue: **2018-08-29**

Issue No. 3 (2014-07-29)

Issue No. 2 (2013-04-15)

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

Issue No. 1 (2012-01-26)

Issue No. 0 (2006-08-14)

Ex Component: **Empty enclosure, type 8225/***-*****

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof enclosure "db", Increased Safety "eb", Protection by enclosure "tb"**

Marking:

Ex db IIC Gb

Ex db eb IIC Gb

Ex db I Mb

Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Phys. U. Völkel

Position:

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 Component 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 Ex Component 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - 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 Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/PTB/ExTR06.0060/04](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/13](#)



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Schedule

Ex Component(s) covered by this certificate is described below:

The flameproof enclosure, type 8225/ ***_***, is a welded structure which is made from sheet steel or stainless steel and provided with an aluminium or bronze screw-on cover. It is designed to accommodate switching and control gear, measuring equipment and display units. Cover and side walls may be fitted with actuator rods and/or sight glasses.

Connection is by means of - separately certified - flameproof cable bushings or wire bushings with terminal compartment designed to level of protection Increased Safety 'eb', or by means of - separately certified - direct cable entries or conduit systems.

The flameproof enclosures may be combined with each other and/or with terminal boxes designed to level of protection Increased Safety 'eb'.

The flameproof enclosure type 8225/ 3**_** is without windows and without combined terminal boxes level of protection Increased Safety 'eb'.

Technical Data, Nomenclature and Notes for manufacturing and operation see Annex to this certificate.

SCHEDULE OF LIMITATIONS:

No Limitations



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

- The Ex-marking has updated to the current regulation of the standards
- A new cement is included in the certificate



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Additional information:

Annex:

[COCA_PT060067U_I4.pdf](#)



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

Electrical Apparatus: Empty enclosure type 8225/***-***

Description

The flameproof enclosure, type 8225/***-***, is a welded structure which is made from sheet steel or stainless steel and provided with an aluminium or bronze screw-on cover. It is designed to accommodate switching and control gear, measuring equipment and display units. Cover and side walls may be fitted with actuator rods and/or sight glasses.

Connection is by means of - separately certified - flameproof cable bushings or wire bushings with terminal compartment designed to level of protection Increased Safety "eb", or by means of - separately certified - direct cable entries or conduit systems.

The flameproof enclosures may be combined with each other and/or with terminal boxes designed to level of protection Increased Safety "eb".

The flameproof enclosure type 8225/3**-* is without windows and without combined terminal boxes level of protection Increased Safety "eb".

Nomenclature:

8225	/	*	*	*	-	****
1	/	2	3	4	-	5

- 1) type series
- 2) version
 - 1 = Enclosure made of steel with a cover plate of aluminium
 - 2 = Enclosure made of stainless steel with a cover plate of bronze
 - 3 = Enclosure made of steel with a cover plate of bronze
- 3) design size (face)
 - 1 = 235 x 235 mm
 - 2 = 360 x 360 mm
 - 3 = 480 x 480 mm
 - 7 = 360 x 480 mm
 - 9 = 730 x 730 mm
- 4) design size (height)
 - 2 = 268 mm
 - 3 = 325 mm
 - 4 = 410 mm
 - 5 = 465 mm
- 5) additional information without reference to explosion-protection

Technical data:

Enclosure:

type	width	length	height	volume
	mm	mm	mm	max. dm ³
8225/*12	235	235	268	10
8225/*22	360	360	268	25
8225/*23	360	360	325	31
8225/*32	480	480	268	43
8225/*33	480	480	325	55
8225/*35	480	480	410	75
8225/*72	360	480	268	33
8225/*73	360	480	325	43
8225/*96	730	730	468	180

Window:

Window size	Ø D1 cover plate	Ø D2 window	Thick of the window	Cemented line of the cover plate
1	≥ 70	≤ 90	≤ 12	min. 10 mm
2	≥ 83	≤ 103	≤ 15	min. 10 mm
3	≥ 110	≤ 130	≤ 15	min. 10 mm
4	≥ 158	≤ 168	≤ 19	min. 10 mm

Notes for manufacturing and operation:

The empty 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.

The routine test, in accordance to EN 60079-1, has to be performed with a static overpressure of 16 bar.