



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx PTB 06.0010U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2015-01-09)
Date of Issue:	2024-02-09		Issue 1 (2013-03-15)
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		Issue 0 (2006-02-23)
Ex Component:	Control Switch / Load Disconnect Switch type 8008/2-****-** and 8008/4-**-****-**		
<i>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).</i>			
Type of Protection:	Flameproof enclosure "d", Increased Safety "e"		
Marking:	Ex db eb IIC Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Dr. Ing. D. Markus

Position:

Head of Working Group Flame Transmission Processes

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 06.0010U**

Page 2 of 4

Date of issue: 2024-02-09

Issue No: 3

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

Manufacturing
locations:

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 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](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/PTB/ExTR06.0013/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/19](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 06.0010U**

Page 3 of 4

Date of issue: 2024-02-09

Issue No: 3

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

Description of equipment

The flameproof control switch or load disconnect switch series 8008/2-****-** and 8008/4-**-***-** serves for switching of electrical and electronic components used to control, switch, regulate and monitor electrical machines and systems. The device is intended for installation in the enclosures or control panels with type of protection Increased Safety "e" for use in hazardous areas.

Further information see Annex.

SCHEDULE OF LIMITATIONS:

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



IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 06.0010U**

Page 4 of 4

Date of issue: 2024-02-09

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- 1) New type 8008/4 added
- 2) Update of standards
- 3) Revision of Ex-Marking

Annex:

[COCA060010-03.pdf](#)



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

Equipment: Control Switch / Load Disconnect Switch type 8008/2-****-** and 8008/4-**-***-**

Description:

The flameproof control switch or load disconnect switch series 8008/2-****-** and 8008/4-**-***-** serves for switching of electrical and electronic components used to control, switch, regulate and monitor electrical machines and systems. The device is intended for installation in the enclosures or control panels with type of protection Increased Safety “e” for use in hazardous areas.

Nomenclature

8008/2

800	/	2	-	*	***_**
a)	/	b)	-	c	d)

- a) Type series
- b) 2 - Version
- c) Version (construction):
 - 0 - Control switch (1 layer) 1 or 2 pole
 - 1 - Control switch (2 layer) 3 or 4 pole
 - 6 - Load disconnect switch (2 or 3 layer) 3 or 4 pole
- d) Options without relevance to explosion protection, e.g. contact arrangement or gold plated contacts or silicone containing

8008/4

800	/	4	-	*	*	-	***_**
a)	/	b)	-	c	d	-	e)

- a) Type series
- b) 4 - Version
- c) Mounting:
 - 1 - Mounting rail installation
- d) Design:
 - 0 - Control switch 1 or 2 pole
 - 1 - Control switch 3 or 4 pole



- 6 - Load disconnect switch 3 or 4 pole
- e) Options without relevance to explosion protection;
e.g. contact arrangement or gold plated contacts or silicone containing

Service temperature

$$-60\text{ °C} \leq T_s \leq +80\text{ °C}$$

Ambient temperature

$$-60\text{ °C} \leq T_{\text{amb}} \leq +60\text{ °C}^*)$$

*) these ranges may be reduced by the manufacturer

Technical data

Specification

Rated voltage:	up to 690 VAC / 230 VDC
Rated current:	up to 16 A
Rated impulse voltage:	6 kV

Terminal capacity

8008/2

Stranded:	1,5 ... 2,5 mm ² (16 ... 14 AWG)
Solid:	1,5 ... 4 mm ² (16 ... 12 AWG)

8008/4

Stranded/ stranded with ferrules:	max. 2 x 1,5 ... 2,5 mm ² (16 ... 14 AWG)
	max. 1 x 4 mm ² (12 AWG)
Solid:	max. 2 x 1,5 ... 2,5 mm ² (16 ... 14 AWG)
	max. 1 x 4 mm ² (12 AWG)

Terminal torque

1.8 Nm

Dimensions

8008/2

Version	Length [mm]	Width [mm]	Height [mm] (without pin)	Volume of switch chamber
8008/2-0	45	45	48	max. 8 cm ³
8008/2-1	45	45	61	max. 12 cm ³
8008/2-6	45	45	74	max. 14 cm ³

Note: Maximum internal free volume of chamber is defined only with installed shaft
(Pos. 2 in DWG 8008 0 45 00 0)

8008/4

Version	Length [mm]	Width [mm]	Height [mm] (without pin)	Volume of switch chamber
8008/4-*0	45	45	47	max. 8 cm ³
8008/4-*1	45	45	60	max. 12 cm ³
8008/4-*6	45	45	74	max. 14 cm ³

Note: Maximum internal free volume of chamber is defined only with installed shaft
(Pos. 2 in DWG 8008 0 000 055 0)

Notes for manufacturing and operation:

1. The control switch or load disconnect switch series 8008/2-****-** and 8008/4-**-****-** 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 control switch or load disconnect switch series 8008/2-****-** and 8008/4-**-****-** in an enclosure designed to type of protection Increased Safety "e" as specified in IEC 60079-7, 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 control switch or load disconnect switch series 8008/2-****-** and 8008/4-**-****-** 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.

Schedule of Limitations:

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