



# 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](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.:	<b>IECEX BVS 13.0067U</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2018-01-02)
Date of Issue:	2021-07-19		Issue 2 (2016-05-11)
			Issue 1 (2015-04-29)
			Issue 0 (2013-07-24)
Applicant:	<b>R. STAHL Schaltgeräte GmbH</b> Am Bahnhof 30 74638 Waldenburg Germany		
Ex Component:	Empty enclosure type 8250/*-****-****-***-***		
	<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:	<b>Flameproof Enclosures "d", Protection by Enclosure "t"</b>		
Marking:	Ex db IIB / IIB+H <sub>2</sub> Gb Ex tb IIIC Db		

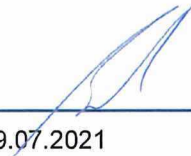
Approved for issue on behalf of the IECEx  
Certification Body:

**Jörg Koch**

Position:

**Head of Certification Body**

Signature:  
(for printed version)

  
\_\_\_\_\_  
19.07.2021

Date:

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Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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

Additional manufacturing locations: **R. Stahl (P) LTD.**  
Plot No. 5, Malrosapuram Main Road  
Sengundram Industrial Area, Singaperumal  
Koil  
Tamil Nadu – 603 204  
India

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 equipment 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 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "l"  
Edition:2

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR13.0081/04](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/16](#)



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

## Subject and Type

Empty enclosure type 8250<sup>1)</sup>/<sup>2)</sup>\*\*\*\*\_\*\*\*\*\_\*\*\*\*<sup>3)</sup>\_\*\*\*\*<sup>4)</sup>\*5)\*6)\*7)\*8)

1) Type series

2) Type enclosure 0 = empty enclosure

3) Enclosure size (width x height x depth)

0250-0150-110 = 250 x 150 x 110 mm (size 1)
0250-0150-092 = 250 x 150 x 092 mm (size 1)
0300-0230-125 = 300 x 230 x 125 mm (size 2)
0300-0230-102 = 300 x 230 x 102 mm (size 2)
0370-0300-160 = 370 x 300 x 160 mm (size 3)
0370-0300-138 = 370 x 300 x 138 mm (size 3)
0540-0230-230 = 540 x 230 x 230 mm (size 4)
0540-0360-300 = 540 x 360 x 300 mm (size 5)
0540-0360-263 = 540 x 360 x 263 mm (size 5)

4) Material

1 = LM6
2 = LM25
3 = AISi7Mg0.3
4 = LM6 (Housing) + EN AW – 6082 (Flat cover)
5 = AISi7Mg0,3 (Housing) + EN AW – 6082 (Flat cover)
6 = LM6 (Housing) + AISi7Mg0,3 (Cast cover)

5) Surface

0 = without coating
1 = powder coated
9 = special coating

6) Additional information without reference to explosion-protection

7) Cover

1 = with Inspection window
3 = without inspection window
9 = special

8) Additional information without reference to explosion-protection

## **Description**

The empty enclosure type 8250/\*-\*\*\*\*-\*\*\*\*-\*\*\*\*-\*\*\*\* in type of protection Flameproof Enclosure „d“ and Protection by enclosure „t“ is used for EPL Gb or EPL Db. The empty enclosure can accommodate actuation shafts with couplings, locking devices (IECEX KEM 07.0050U) and / or inspection windows (IECEX PTB 07.0027U).

## **Parameters**

See Annex

## **SCHEDULE OF LIMITATIONS:**

In case of the parts forming the joint shall be replaced or repaired, the dimensions information of the flameproof joints must be obtained from the manufacturer, because the gap length of the flameproof joint of this apparatus are in parts longer and the gap width are in parts smaller than required by Table 2 of IEC 60079-1:2014.

The explosion test as part of the type tests for the empty enclosure in type of protection Flameproof Enclosure “db” were performed for an ambient temperature range  $-60\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$  (Gasgroup IIB)  $-60\text{ °C} \leq T_{\text{amb}} \leq +60\text{ °C}$  (Gasgroup IIB+H<sub>2</sub>),  $-20\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$  (Gasgroup IIB) with Flat cover Size 3 & 5 and  $-20\text{ °C} \leq T_{\text{amb}} \leq +60\text{ °C}$  (Gasgroup IIB+H<sub>2</sub>) with Flat cover Size 3 & 5.



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

- Updating to the standard IEC 60079-0:2017
- The empty enclosure can be built with a flat cover, optionally.

**Annex:**

[BVS\\_13\\_0067u\\_Stahl\\_Annex\\_Issue4.pdf](#)



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**Annex**  
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## Parameters

### Thermal parameters

Enclosure material	LM6	LM25	AlSi7Mg0.3	EN AW – 6082 Flat cover (size 1 & 2)	EN AW – 6082 Flat cover (size 3 & 5)
Limits of service temperature	-60 °C up to +200 °C	-60 °C up to +130 °C	-60 °C up to +130 °C	-60 °C up to <sup>1)</sup> °C	-20 °C up to <sup>1)</sup> °C
Limits of service temperature with inspection window (size 1 & 2)	-60 °C up to +100 °C				-20 °C up to +100 °C
Ambient temperature range (IIB)	-60 °C up to +70 °C				-20 °C up to +70 °C
Ambient temperature range (IIB+H <sub>2</sub> )	-60 °C up to +60 °C				-20 °C up to +60 °C
Ambient temperature range <sup>2)</sup> with couplings, locking device	-20 °C / -40 °C / -60 °C up to +60 °C <sup>4)</sup>				
Ambient temperature range <sup>3)</sup> with couplings, locking devices and / or window	-20 °C / -40 °C / -60 °C up to +70 °C <sup>4)</sup>				-20 °C up to +60 °C <sup>4)</sup>

- 1) Depending on the used enclosure material
- 2) According IECEx KEM 07.0050U (with couplings, locking devices)
- 3) According IECEx PTB 07.0027U (inspection window)
- 4) Depending on the used enclosure material in combination with the used mounting components according <sup>2) 3)</sup>



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## Electrical parameters

Type	Max. power dissipation and max. thermal heating					
	≤ 50 W	≤ 100 W	≤ 200 W	≤ 300 W	≤ 400 W	≤ 500 W
8250/ 250 x 150 x 110/92 coated	25 K	45 K	77 K	-		
8250/ 250 x 150 x 110/92 non-coated	29 K	51 K	86 K	-		
8250/ 300 x 230 x 125/102 coated	-	34 K	59 K	80 K		
8250/ 300 x 230 x 125/102 non-coated	-	40 K	69 K	91 K		
8250/ 370 x 300 x 160/138 coated	-	25 K	45 K	62 K	80 K	93 K
8250/ 370 x 300 x 160/138 non-coated	-	32 K	56 K	78 K	97 K	105 K
8250/ 540 x 230 x 230 coated	-	22 K	36 K	51 K	63 K	76 K
8250/ 540 x 230 x 230 non-coated	-	25 K	44 K	60 K	75 K	90 K
8250/ 540 x 360 x 300/263 coated	-	13 K	25 K	37 K	44 K	51 K
8250/ 540 x 360 x 300/263 non-coated	-	18 K	32 K	45 K	55 K	65 K