



# 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)

Certificate No.:	<b>IECEX BVS 13.0045X</b>	Page 1 of 5	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2018-02-20)
Date of Issue:	2023-02-01		Issue 2 (2015-08-25)
Applicant:	<b>Cooper Crouse-Hinds GmbH</b> Neuer Weg-Nord 49 69412 Eberbach <b>Germany</b>		Issue 1 (2014-06-11)
Equipment:	<b>Terminal box type GHG 731 ** ** * ****</b>		Issue 0 (2013-04-19)
Optional accessory:			
Type of Protection:	<b>Intrinsic Safety "i", Protection by Enclosure "t", Increased Safety "e"</b>		
Marking:	Ex eb * IIC T4 / T5 / T6 Gb Ex tb IIIC T80°C / T95°C Db		
	*) Optional the marking can be amplified with the types of protection of the separately certified components, for example "db", "eb", "mb" and/or "ia/ib".		

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Franz Eickhoff**

Position:

**Senior Lead Auditor, Certification Manager and officially  
recognised expert**

Signature:  
(for printed version)

Date:  
(for printed version)

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

 **DEKRA**  
On the safe side.



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Manufacturer: **Cooper Crouse-Hinds GmbH**  
Neuer Weg-Nord 49  
69412 Eberbach  
**Germany**

Manufacturing locations: **Cooper Crouse-Hinds GmbH**  
Neuer Weg-Nord 49  
69412 Eberbach  
**Germany**

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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

Test Report:

[DE/BVS/ExTR13.0049/03](#)

Quality Assessment Report:

[DE/BVS/QAR11.0009/11](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Subject and Type

Terminal box type GHG 731 \*\*1) \*\* \* \*\*\*\*2)

1) Version

Plastic version (l x w x d)

01 = (85 x 85 x 77.5) mm

02 = (125 x 85 x 77.5) mm

03 = (165 x 85 x 77.5) mm

11 = (120 x 140 x 95) mm

12 = (182 x 140 x 95) mm

2) not Ex-relevant

### Description

The Terminal box type GHG 731 \*\* \* \* \*\*\*\* is used as a connection or junction box in type of protection Increased Safety "e" and type of protection by enclosure "t". The terminal box enclosure could be executed in plastic material.

The electrical connection can be realized with separately certified terminals in type of protection "e" Increased Safety and / or "i" Intrinsic Safety. The maximum numbers of the terminals, numbers of single leads, size of cross-section and the maximum rated current must be designed according the permitted current / cable size table resp. acc. to the maximum power dissipation (see table in parameters).

In addition other components (apart from components in type of protection "i" Intrinsic Safety) separately certified for this purpose can be used (e.g. fuses) with a max. power dissipation of 1 W.

The reason for this supplement is the updating to the new standard.

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Terminal	Fixed in "List of Components" GHG 902 5018 F0001	
Several components which can be built in	Fixed in "List of Components" GHG 902 5018 F0002	

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Fuse type 8560	IECEX PTB 06.0056U <sup>1</sup>	IEC 60079:2004 Ed. 4.0 IEC 60079-7:2001 Ed. 3.0 IEC 60079-18:1992 Ed. 1.0
P.B. EX41 GHG417	IECEX IBE 14.0005U <sup>1</sup>	IEC 60079:2011 Ed. 6.0 IEC 60079-7:2015 Ed. 5.0
Terminal type MSLKG 5	IECEX KEM 07.0035U <sup>1</sup>	IEC 60079-0:2004 Ed. 4.0 IEC 60079-7:2006 Ed. 4.0

<sup>1</sup> No applicable technical differences

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The plastic enclosure GHG 731 \*\* \* \* \*\*\*\* can alternatively be made of different materials. Material "A" is conductive with a surface resistance of  $< 10^9 \Omega$ .

Material "B" is non-conductive with a surface resistance  $> 10^9 \Omega$  and has to carry the following warning "Clean with moist cloth only". The code letters are given with a preceding "Mat.:" on the type label.

With regard to the possible risk of electrostatic discharge, the relevant information in the operating instructions must be observed.



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## Equipment (continued):

### Parameters

#### Electrical parameter

Type GHG 731 01, GHG 731 02, GHG 731 03

Nominal voltage <sup>1)</sup> up to 690 V AC / DC

Nominal current <sup>2)</sup> up to 25 A

Terminal cross-section up to 4 mm<sup>2</sup>

Type GHG 731 11, GHG 731 12

Nominal voltage <sup>1)</sup> up to 690 V AC / DC

Nominal current <sup>2)</sup> up to 80 A

Terminal cross-section up to 25 mm<sup>2</sup>

<sup>1</sup> Dependent on the used terminals, as well as the relevant creepage distances and clearances according table 1 of IEC 60079-7.

<sup>2</sup> Dependent on the used terminals, as well as terminal cross-section and the number of single leads.

Max. Power dissipation version 01 = (85 x 85 x 77.5) mm:

Max. ambient temp.	T6	T5
40 °C	4.7 W	6.4 W
55 °C	2.9 W	4.7 W

Max. Power dissipation version 02 = (125 x 85 x 77.5) mm:

Max. ambient temp.	T6	T5
40 °C	5.8 W	8.0 W
55 °C	3.5 W	5.8 W

Max. Power dissipation version 03 = (165 x 85 x 77.5) mm:

Max. ambient temp.	T6	T5
40 °C	7.0 W	9.6 W
55 °C	4.3 W	7.0 W

Max. Power dissipation version 11 = (120 x 140 x 95) mm

Max. ambient temp.	T6	T5
40 °C	9.3 W	12 W
55 °C	5.8 W	9.3 W

Max. Power dissipation version 12 = (182 x 140 x 95) mm:

Max. ambient temp.	T6	T5
40 °C	12 W	17 W
55 °C	8.0 W	12 W

### Degree of IP-Protection IP6\*

\* The degree of IP Protection could be changed depending on the enclosure for use with special assembly parts.

### Thermal data

The temperature range is depending on the used enclosure assembly parts.

Ambient temperature range -55 °C up to +55 °C (T6)  
-55 °C up to +55 °C (T5)  
-55 °C up to +55 °C (T4)\*

\* only for use of terminals in type of protection Intrinsic Safety "I".



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

- Updating to the standards IEC 60079-0:2017 and IEC 60079-7:2017
- Introduction of code letters for enclosure materials