



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

Certificate No.: IECEx BVS 17.0062X

Issue No: 0

Certificate history:

[Issue No. 1 \(2018-02-21\)](#)

[Issue No. 0 \(2017-11-06\)](#)

Status: **Current**

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Date of Issue: **2017-11-06**

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

Equipment: **Plug and socket system type GHG 514\* \* \* R \* \*\***

*Optional accessory:*

Type of Protection: **Equipment protection by flameproof enclosures "d", Equipment protection by intrinsic safety "i", Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**

Marking:

Ex db eb [ia Ga] IIC/IIB T5 Gb  
Ex tb IIIC T80°C Db

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dr Franz Eickhoff

*Position:*

Deputy Head of Certification Body

*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](#).

Certificate issued by:

**DEKRA EXAM GmbH**  
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

Additional Manufacturing location(s):

**S.C. Cooper Industries Romania S.R.L.**

Zona Industrială Vest, Str. III, Nr. 12

310510 Arad

Romania

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 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> 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/BVS/ExTR17.0079/00](#)

Quality Assessment Report:

[DE/BVS/QAR11.0006/07](#)

[DE/BVS/QAR11.0009/07](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

### Subject and type

See Annex

### Description

The plug and socket system type GHG 514\*\* \*\* R \* \*\*\* consist of a flange socket which is built as a wall socket and is used for connection of a plug.

The plug is built in type of protection increased safety "e" and protection by enclosure "t".

The wall socket is built in type of protection increased safety "e" and protection by enclosure "t".

The wall socket can be equipped with a separately certified signal lamp type GHG41. .... R..., switch block type GHG 41. .... R ....., switch base type GHG 2\*\* \*\* \* R \*\*\*\* and/or switch base type GHG 264 \*\*\*\* R \*\*\*\*.

Listing of all components used referring to older standards

See Annex

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

The plugs have to be examined of damages before being connected to the socket.



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## EQUIPMENT (continued):

### Parameters

Plug and socket system - Wall socket type GHG 514\*\* \*\* R \* \*\*\* (Gas Group IIC/IIB)

Rated voltage:	690	V AC
Rated current:	60 / 63	A
Ambient temperature range: Wall socket:	-40 °C...+55 °C (IIB)	
	-20 °C...+55 °C (IIC)	
Plug:	-55 °C...+55 °C	

### Intrinsic safe circuits (according IECEx IBE 13.0031U)

Rated voltage:	10 - 30	V DC
Rated current:	max. 25	mA
$U_i$	30	V DC
$I_i$	100	mA
$P_i$	750	mW
$C_i, L_i$	negligible	

### Potential-free switch contact for the connection of an intrinsic safe circuit

Rated voltage:	max. 30	V AC / DC
Rated current:	max. 400	mA
$C_i, L_i$	negligible	

### Annex:

[BVS\\_17\\_0062X\\_Cooper\\_Annex.pdf](#)



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**Annex**  
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## Subject and type

Plug and socket system GHG 514<sup>1)\*2)\*3) \*\*4) R<sup>5) \*6) \*\*\*</sup></sup>

- <sup>1)</sup> Current 4 = 63 A / 60 A  
<sup>2)</sup> Design 4 = Wall socket  
7 = Plug  
<sup>3)</sup> Number of poles 4 = 4-poles (3+PE)  
5 = 5-poles (3+N+PE)  
<sup>4)</sup> Voltage 04 = 110 / 130 V AC  
05 = 690 V AC  
06 = 230 / 415 V AV  
07 = 500 V AC  
08 = Special version  
09 = 127 / 230 V  
12 = 42 V AC  
<sup>5)</sup> Temperature range R = -40 °C ... +55 °C  
<sup>6)</sup> Version 0 = plastic  
3 = internal metal plate

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Signal lamp GHG41. .... R...	IECEx IBE 13.0031U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2007 Ed. 6 <sup>1</sup> IEC 60079-7:2006 Ed. 4 <sup>1</sup> IEC 60079-11:2011 Ed. 6
Switch base GHG 2** *** R ****	IECEx BVSS 14.0047U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2007 Ed. 6 <sup>1</sup> IEC 60079-7:2007 Ed. 4 <sup>1</sup>
Switch base GHG 264 **** R ****	IECEx BVS 12.0083U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2007 Ed. 6 <sup>1</sup> IEC 60079-7:2006 Ed. 4 <sup>1</sup> IEC 60079-11:2011 Ed. 6

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