



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

Certificate No.:	IECEx BKI 04.0002	Page 1 of 6	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2012-03-13)
Date of Issue:	2016-11-03		Issue 2 (2011-09-19)
			Issue 1 (2008-11-28)
			Issue 0 (2004-12-01)
Applicant:	Cooper Crouse-Hinds GmbH previously CEAG Sicherheitstechnik GmbH Neuer Weg Nord 49 D-69412 Eberbach, Germany Germany		
Equipment:	Plug and socket device, Typ GHG 51.R....		
Optional accessory:			
Type of Protection:	General requirements, Flameproof enclosures, Increased safety, Intrinsic safety, Dust ignition protection by enclosure		
Marking:	Ex ed [ia] IIC T6 or T5 -55 °C ≤ Tamb ≤ +55 °C		

Approved for issue on behalf of the IECEx
Certification Body:

János Müllner

Position:

managing director

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:

Testing Station for Explosion Proof Equipment
H 1037 BUDAPEST
MIKOVINY S.u. 2-4
Hungary





IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 04.0002**

Page 2 of 6

Date of issue: 2016-11-03

Issue No: 4

Manufacturer: **Cooper Crouse-Hinds GmbH previously CEAG Sicherheitstechnik GmbH**
Neuer Weg Nord 49
D-69412 Eberbach, Germany
Germany

Manufacturing locations: **S.C. COOPER INDUSTRIES**
ROMANIA S.R.L
ARAD, Zona Industrial NV, str III, no 12
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 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 60079-0:2000 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition:3.1

IEC 60079-1:2001 Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
Edition:4

IEC 60079-11:1999 Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
Edition:4

IEC 60079-7:2001 Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
Edition:3

IEC 61241-0:2004 Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
Edition:1

IEC 61241-1:2004 Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"
Edition: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:

Quality Assessment Report:

IECEx ATR:
HU/BKI/ExTR08.0016/01
DE/BVS/QAR11.0009/00, DE/BVS/QAR11.0006/01

File reference:
P-007-16



IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 04.0002**

Page 3 of 6

Date of issue: 2016-11-03

Issue No: 4

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The type GHG 51 The type **GHG 51.R....** plug-and-socket device serves to connect portable electrical apparatus or to make connections in potentially explosive atmospheres.

The following variant is permissible: transformer plugs (isolating transformer, class of protection II).

Extra-low-voltage version: type **GHG 513....R....**

The wall mounting socket outlet, type **511.4..R....** may also be provided with an auxiliary switch for operation with an intrinsically safe circuit.

Plug connector

The plug-and-socket device, type **GHG 511....R....**, is supplemented by plug connector **GHG 531.7..V....** (old design) of plug-and-socket device **GHG 531....V....** (old Certificate of Conformity PTB No. Ex-85.B.1115), which has the same explosion-proof characteristics.

The plug-and-socket device may also be used in the hazardous area „dust“.

The plug-and-socket device, type **GHG 51.R....**, may also be manufactured with the different modifications.

Rated voltage ... up to	690 V
Rated current ... max.	16/20 A
Utilization category	AC-3

Transformer plug

Rated voltage, primary ...	up to	250 V
Rated voltage, secondary ...	up to	42 V
Power consumption	max	65 VA
Miniatur fuse ...		0,5 A
Temperature class		T5

The plug-and-socket device type **GHG 513....R....** is supplemented by an extra-low-voltage version

Rated insulating voltage ...	up to	60 V		
Rated voltage ...	up to	50 V	50 V	50 V
Rated current ...	max	16 A	16 A	10 A
Utilization category ...		AC-3	DC-1	DC-11
Rated frequency ...	up to		400 Hz	
Rated cross-section		2,5 mm² or 4 mm²		



IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 04.0002**

Page 4 of 6

Date of issue: 2016-11-03

Issue No: 4

Ingress protection: IP66 by IEC 60529

SPECIFIC CONDITIONS OF USE: NO



IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 04.0002**

Page 5 of 6

Date of issue: 2016-11-03

Issue No: 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 4

The plug and socket device family type GHG51. R are modified with the following respects:

- Introduce the application of the IECEx certified flange-mounting socket outlet GHG511 8... for the manufacture of the plug and socket device, type GHG51. R
- The used plugs type GHG 54. . . . R.... are renamed to GHG 542... or GHG543... without any technical changes of the product.

See details in 4th Addendum to IECEx BKI 04.0002

Issue 3

New manufacturing location:

S.C. COOPER INDUSTRIES ROMANIA S.R.L

ARAD, Zona Industrial NV, str III, no 12

ROMANIA

The IECEx QAR of the new manufacturing location:

DE/BVS/QAR11.0006/01

Issue 2

New QAR: DE/BVS/QAR11.0009/00 for the manufacturing location:

Cooper Crouse-Hinds GmbH previously CEAG Sicherheitstechnik GmbH

Neuer Weg Nord 49

D-69412 Eberbach, Germany

Issue 1

Extended range $-55\text{ °C} \leq T_{amb} \leq +70\text{ °C}$ (the current rating is reduced to 3A)

Ex tD A21 IP66 T 60 °C

IEC 61241-0:2004-07 Electrical apparatus for use in the presence of combustible dust–
Edition: 1 Part 0: General requirements

IEC 61241-1:2004-05 Electrical apparatus for use in the presence of combustible dust–
Edition: 1 Part 1: Protection by enclosures “tD”



IECEx Certificate of Conformity

Certificate No.: **IECEx BKI 04.0002**

Page 6 of 6

Date of issue: 2016-11-03

Issue No: 4

Annex:

[4th Addendum to IECEx BKI 04.0002.pdf](#)



1. Description

The plug and socket device family type GHG51. R are modified with the following respects:

- Introduce the application of the IECEx certified flange-mounting socket outlet GHG511 8... for the manufacture of the plug and socket device, type GHG51. R
- The used plugs type GHG 54. . . . R.... are renamed to GHG 542... or GHG543... without any technical changes of the product.

In every other aspects the product is unchanged, the modifications do not have influence on the safety values and properties of the device.

2. Drawing

Description	Document number	Document revision	Date
Description Issue 4 of IECEx BKI 04.0002	No. 4703	0	2016.10.14
Description	No. 4359	-	2008.06.26
Test Report	PTB Ex 09-19075		2010.09.10
IECEX Certificate of Conformity Flange-mounting socket outlet GHG511 8...	IECEX BVS 15.0088U	0	2016.06.21