



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

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

Approved for issue on behalf of the IECEx
Certification Body:

János FEJES

Position:

managing director

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

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 Issue No: 3
Date of Issue: 2012-03-13 Page 2 of 6
Manufacturer: **Cooper Crouse-Hinds GmbH previously CEAG Sicherheitstechnik GmbH**
Neuer Weg Nord 49
D-69412 Eberbach, Germany
Germany

Additional Manufacturing
location(s):

S.C. COOPER INDUSTRIES ROMANIA S.R.L
ARAD, Zona Industrial NV, str III, no 12
ROMANIA
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 electrical 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:

IEC 60079-0 : 2000 Edition:3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition:4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 1999 Edition:4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
IEC 60079-7 : 2001 Edition:3	Electrical apparatus for explosive gas atmospheres - Part 7: 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

IECEx ATR:	File Reference:
HU/BKI/04/P-002-04/1-1, HU/BKI/04/P-002-04/1-2	P-002-04/1
HU/BKI/04/P-002-04/1-3, HU/BKI/04/P-002-04/1-4	P-011-08
HU/BKI/ExTR08.0016/00 HU/BKI/QAR06.0004, DE/BVS/QAR11.0009/00, DE/BVS/QAR11.0006/01	



IECEx Certificate of Conformity

Certificate No: IECEx BKI 04.0002

Issue No: 3

Date of Issue: 2012-03-13

Page 3 of 6

Schedule

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



IECEX Certificate of Conformity

Certificate No: IECEx BKI 04.0002

Issue No: 3

Date of Issue: 2012-03-13

Page 4 of 6

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 mm ² or 4 mm ²		

Ingress protection: IP66 by IEC 60529

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No: IECEx BKI 04.0002

Issue No: 3

Date of Issue: 2012-03-13

Page 5 of 6

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

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



IECEX Certificate of Conformity

Certificate No: IECEx BKI 04.0002

Issue No: 3

Date of Issue: 2012-03-13

Page 6 of 6

Additional information:

No

Annex:

[Addendum to IECEx BKI 04.0002 1.a..pdf](#)



1. Description

Description of supplements and modifications:

The plug and socket device GHG 51.R...., may also be manufactured with the following modifications:

- The flange of the type GHG 511 8...R.... socket outlet may also be made from material CuZn 15. This type comes complete with a captive protectiv cap.
- If the current rating is reduced to 3A, the plug and socket device may be used in ambient temperatures of up to 70 °C. A similar correlation between intermediate values is accepted. Users shall be informed of such values in an adequate form.
- For special voltage ratings, the mechanical characterization 1h, 8h and 12h will be used.
 - 4 pole < 690 V
 - 5 pole < 500 V
 - 3 pole < 400 V
- The plug and socket device is supplemented by the plug of type GHG 54. 23..R....

2. Ambient temperature

Standard range $-55\text{ °C} \leq T_{amb} \leq +55\text{ °C}$

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

3. Ingress protection IP66 to IEC 60529

Special conditions for safe use:

In case the ambient temperature is $T_{amb} \leq +70\text{ °C}$ it is not permissible to put into service and operate a plug even of max. 3 A reduced current strength in potentially explosive atmospheres due to a mixture of dust with air, since the protection mark of an apparatus approved in atmospheres endangered by dust is Ex tD A21 IP66 T 60 °C, i.e. the surface temperature shall not exceed +60 °C.

Drawings

3rd Supplement Descriptive documents

Description No. 4202 for 3rd Supplement 3 pages 2003.07.15.

Annex for Description No 4202 2 pages 2003.07.15.

Test Report BVS PP 03.2070 EG.1 8 pages 2003.04.03.

Test Report PTB Ex 04-13042 3 pages 2004.04.01.