



# 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 BKI 07.0012 Issue No: 0 Certificate history:  
Status: **Current** Issue No. 2 (2013-11-12)  
Date of Issue: **2007-03-06** Page 1 of 3 Issue No. 1 (2011-09-19)  
Applicant: **Cooper Crouse-Hinds GmbH** Issue No. 0 (2007-03-06)  
previously CEAG Sicherheitstechnik GmbH  
Neuer Weg Nord 49  
D-69412 Eberbach, Germany  
**Germany**

Equipment: **Load interrupter, master, motor protection and safety switch**  
Optional accessory: *Type GHG 262....R.... and GHG 263....R....*

Type of Protection: **General requirements, Flameproof enclosure, Increased safety, Intrinsic safety,**

Marking: Ex ed ia IIC T6  
-55 °C ≤ Tamb ≤ +55 °C  
Ex tD A21 IP66 T 55 °C (GHG 262....R....)  
Ex tD A21 IP66 T 53 °C (GHG 263....R....)  
-20 °C ≤ Tamb ≤ +40 °C

Approved for issue on behalf of the IECEx  
Certification Body:

János HANKÓ

Position:

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 07.0012 Issue No: 0

Date of Issue: 2007-03-06 Page 2 of 3

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

Additional Manufacturing location(s):

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:

|  |  |
|--|--|
| <b>IEC 60079-0 : 2004</b><br>Edition:4.0 | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements                        |
| <b>IEC 60079-1 : 2001</b><br>Edition:4   | Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'                   |
| <b>IEC 60079-11 : 1999</b><br>Edition:4  | Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'                       |
| <b>IEC 60079-7 : 2001</b><br>Edition:3   | Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'                        |
| <b>IEC 61241-0 : 2004</b><br>Edition:1   | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements          |
| <b>IEC 61241-1 : 2004</b><br>Edition:1   | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD" |

*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:

[HU/BKI/ExTR07.0011/00](#)

Quality Assessment Report:

[HU/BKI/QAR06.0005/00](#)



# IECEX Certificate of Conformity

Certificate No: IECEx BKI 07.0012

Issue No: 0

Date of Issue: 2007-03-06

Page 3 of 3

## Schedule

### EQUIPMENT:

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

See details in Addendum to IECEx BKI 07.0012 Certificate of Conformity

**SPECIFIC CONDITIONS OF USE: NO**

### Annex:

[Addendum to IECEx BKI 07.0012.pdf](#)

**1. Description**

The load interrupter, master, motor protection and safety switch of type GHG 262 .... R.... and GHG 263 .... R.... comprises a housing designed to type of protection Increased Safety „e” with integrated flush-mounting switches of type of protection Flameproof „d” (covered by a separate certificate) and with terminals of type of protection Increased Safety „e” (also covered by a separate certificate).

If required, wafers or auxiliary switches bearing the required marking may also be used for actuating circuits designed to type of protection Intrinsic Safety „i”.

Connection proceeds from outside by means of cable bushings (covered by a separate certificate).

The load interrupter, master, motor protection and safety switch, type GHG 262 .... R.... and GHG 263 .... R.... may now also be used in areas where potentially explosive atmospheres with dust/air mixtures may occasionally occur.

**2. Type assortment**

GHG 26. ....R....

Legend of the signs from left to right

|                                   |  |
|-----------------------------------|--|
| 1._, 2._, 3._                     | Code for manufacturer  |
| 4._, 5._                          | Type of apparatus (switch)   |
| 6._, 7._, 8._                     | Design and version   |
|                                   | 213. = main current switch 20 A 3-pole size 1 incl.                                      |
|                                   | 214. = main current switch 20 A 4-pole size 1 incl.                                      |
|                                   | 215. = main current switch 20 A 5-pole size 2 incl.                                      |
|                                   | 216. = main current switch 20 A 6-pole size 2 incl.                                      |
|                                   | 223. = safety switch 20 A 3-pole size 1 incl.  |
|                                   | 224. = safety switch 20 A 4-pole size 1 incl.  |
|                                   | 225. = safety switch 20 A 5-pole size 2 incl.  |
|                                   | 226. = safety switch 20 A 6-pole size 2 incl.  |
|                                   | 313. = main current switch 40 A 3-pole size 2 incl.                                      |
|                                   | 314. = main current switch 40 A 4-pole size 2 incl.                                      |
|                                   | 323. = safety switch 40 A 3-pole size 2 incl.  |
|                                   | 324. = safety switch 40 A 4-pole size 2 incl.  |
|                                   | 300. = safety switch 40 A 6-pole tall incl.  |
|                                   | 3005 = safety switch 40 A for variable frequency drives                                  |
| 10._                              | Type of protection   |
|                                   | 1 = intrinsically safe circuit in switch   |
| 9._, 11._, 12._, 13._, 14._, 15._ | Code for design variants with no influence on the explosion protection or special design |

**3. General parameters**

Technical data

Using flush-mounting switch GHG 263 ....R....

|                                  |       |  |       |       |
|----------------------------------|-------|--|-------|-------|
| Rated voltage $U_e$ :            | up to | 400 V  | 690 V | 690 V |
| Rated current $I_e$ :            | max.  | 40 A   | 40 A  | 32 A  |
| Related to utilization category: |       | AC3  | AC1   | AC3   |
| Design cross section:            |       | max. 2x16 mm <sup>2</sup> single core, 2x10 mm <sup>2</sup> fine stranded wire |       |       |

Using flush-mounting switch GHG 2.. ....R....

|                                  |       |  |       |       |       |
|----------------------------------|-------|--|-------|-------|-------|
| Rated voltage $U_e$ :            | up to | 690 V  | 400 V | 500 V | 690 V |
| Rated current $I_e$ :            | max.  | 20 A   | 20 A  | 16 A  | 10 A  |
| Related to utilization category: |       | AC1  | AC3   | AC3   | AC1   |
| Design cross section:            |       | max. 2x2,5 mm <sup>2</sup> single core, 2x4 mm <sup>2</sup> fine stranded wire |       |       |       |

Provided the making and breaking capacity complies with the relevant conditions, rated values other than those specified above are accepted and will be defined by the supplier on the basis of the operating mode, utilization category, etc.

**4. Ambient temperature**

Ambient temperature range for gas -55 °C to +55 °C  
 Ambient temperature range for dust -20 °C to +40 °C

**5. Ingress protection IP66 IEC 60529**



Conditions of Certification: No

**Notes for manufacture and operation**

If the clearance requirements for the connectors as specified in IEC 60079-11:1998 cannot be safeguarded with the installation, wiring that meets the quality criteria Increased Safety „e” shall be used, or the wiring shall be of the fail-safe type.

When using more than one intrinsically safe circuit, the regulations for interconnection shall duly be observed.

**Drawing**

|                                  |                              |            |            |
|----------------------------------|------------------------------|------------|------------|
| Description                      | No. 4187                     | (8 sheets) | 1999.03.16 |
| Annex to description             | No. 4187                     | (2 sheets) | 1999.03.16 |
| Operating instructions           | GHG 260 7007 P0001 D/E/F (E) | (6 sheets) | 2004.09.   |
| Drawing No.                      | Z. Nr. GHG 26-1-3933         |            | 1999.03.16 |
|                                  | 26-1-3935                    |            | 1999.03.16 |
|                                  | 26-2-3934                    |            | 1999.03.16 |
|                                  | 26-2-3942                    |            | 1999.03.16 |
|                                  | 26-2-4313                    |            | 1999.03.16 |
|                                  | 26-2-4314                    |            | 1999.03.16 |
|                                  | 26-2-4315                    |            | 1999.03.16 |
|                                  | 24-3-3193                    |            | 1999.03.16 |
| Test protocol                    | PTB Ex 00-20355              | (4 sheets) | 2000.11.16 |
| 1. Supplement to Description     | No. 4187                     | (1 sheet)  | 2001.04.10 |
| Test protocol                    | No. BVS PP01.2026 EG         |            | 2001.03.20 |
| IEC Ex Certificate of Conformity | IEC Ex BKI 07.0004 U         |            |            |
| IEC Ex Certificate of Conformity | IEC Ex BKI 07.0006 U         |            |            |

Annex: No