



# 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 07.0036 Issue No: 0 Certificate history:  
Status: **Current** Page 1 of 3 Issue No. 2 (2012-03-08)  
Date of Issue: **2007-10-02** Issue No. 1 (2011-09-19)  
Issue No. 0 (2007-10-02)

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

Equipment: **Installation switch**  
*Optional accessory:* *Type GHG 273 .....R....*

Type of Protection: **General requirements, Flameproof enclosures, Increased safety, Dust explosion protection**

Marking: Ex ed IIC T6  
Tamb see 4. Point  
Ex tD A21 IP66 T 67 °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

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Date of Issue: 2007-10-02 Page 2 of 3  
Manufacturer: **Cooper Crouse-Hinds 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> Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2003</b> Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
<b>IEC 60079-7 : 2001</b> Edition:3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
<b>IEC 61241-0 : 2004</b> Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> 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/ExTR07.0035/00](#)

Quality Assessment Report:

[HU/BKI/QAR06.0005/01](#)



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## Schedule

### EQUIPMENT:

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

The installation switch type GHG 273 ....R.... serves as a current switch for light, load and control circuits.

It is connected via terminals integrated in the socket. If this type is made from a material of surface resistance of  $\geq 1 \text{ G}\Omega$ , it will carry a warning note.

See details in Addendum to IECEx BKI 07.0036.

CONDITIONS OF CERTIFICATION: NO

### Annex:

[Addendum to IECEx BKI 07.0036.pdf](#)



### 1. Description

The installation switch type GHG 273 ...R... serves as a current switch for light, load and control circuits. It is connected via terminals integrated in the socket. If this type is made from a material of surface resistance of  $\geq 1 \text{ G}\Omega$ , it will carry a warning note.

### 2. Type assortment

GHG 273...R...

Legend of the signs from left to right

1._, 2._, 3._	Code for manufacturer
4._, 5._	Code for apparatus group
6._	Code for enclosure material 3 = plastic made of non-combustible material
7._	Type of switch 1 = cut-out, one pole 2 = cut-out, two pole 3 = pushbutton, one pole 4 = pushbutton, two pole 5 = series switch 6 = changeover switch 7 = one-pole, double switch 8 = one-pole, double pushbutton
8._, 9._, 10._, 11._, 12._, 13._, 14._, 15._	No influence on the explosion protection

### 3. General parameters

Rated voltage  $U_e$  ... up to 250 V

Rated current  $I_e$  ... max 16 A

In accordance with the relevant provisions, rated values other than those stated above are permissible if the marking and breaking capacity is complied with; they have been specified by the manufacturer as a function of the mode of operation, utilization, category, etc.

At a rated thermal current  $I_{th}$  ... 16 A

for use in areas of temperature class T6

Rated cross section ... max.  $2 \times 4 \text{ mm}^2$  solid lead  
 $2 \times 2,5 \text{ mm}^2$  flexible lead

### 4. Ambient temperature

When used in areas exposed to gas, vapours, fog:

Ambient temperature range, when connecting  $1,5 \text{ mm}^2$  conductors  $-55 \text{ }^\circ\text{C} \leq T_{amb} \leq +40 \text{ }^\circ\text{C}$

Ambient temperature range, when connecting  $2,5 \text{ mm}^2$  conductors  $-55 \text{ }^\circ\text{C} \leq T_{amb} \leq +55 \text{ }^\circ\text{C}$

When used in areas exposed to flammable dust:

Ambient temperature range, when connecting  $1,5 \text{ mm}^2$  conductors  $-20 \text{ }^\circ\text{C} \leq T_{amb} \leq +40 \text{ }^\circ\text{C}$

Ambient temperature range, when connecting  $2,5 \text{ mm}^2$  conductors  $-20 \text{ }^\circ\text{C} \leq T_{amb} \leq +55 \text{ }^\circ\text{C}$

#### 4.1 Temperature class T6

#### 4.2 Surface temperature T 67 °C

### 5. Ingress protection IP66 to IEC 60529



**ADDENDUM TO IECEX CERTIFICATE OF CONFORMITY**  
**IECEX BKI 07.0036**

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**Drawing**

Description	No. 4171	3 pages	1998.01.21.
Annex to description	No 4171	3 pages	1998.01.21.
Drawing No.	GHG 27-4-4262		1998.01.21.
	GHG 27-1-4264		1998.01.21.
Test Report	PTB Ex 98-30008	3 pages	1998.10.15.
1. Supplement Descriptive documents			
Description to 1. Supplement		1 page	2000.09.06.
Test Report	BVS PP 00.2046 EG	7 pages	2000.09.15.
Test Report	PTB Ex 00-30082	4 pages	2000.10.18.
Description	No. 4170 to built in switch	4 pages	1998.01.21.
Annex to description	No. 4170	1 page	1998.01.21.
Drawing	No GHG 27-3-4263		1998.01.21.
Table of Gaps		1 page	1998.01.21.
Test Report	PTB 98-18148	3 pages	1998.10.15.