Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(1) # EC-TYPE-EXAMINATION CERTIFICATE

(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 04 ATEX 1007 U

(4) Component: Isolating terminal, type GHG 101 ....R...

(5) Manufacturer: Cooper Crouse-Hinds GmbH

(6) Address: 69412 Eberbach, Germany

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 04-13013.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997 + A1 + A2 **EN 50018:2000** **EN 50019:2000**

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified component in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

(12) The marking of the component shall include the following:

Ex II 2 G EEx de IIC

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, February 26, 2004

Dr.-Ing. U. Klausmeyer
Regierungsdirektor

(13) # S C H E D U L E

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1007 U

(15) Description of component

The isolating terminal, type GHG 101 ....R.... , consists of the module top and bottom sections. The module top section is to accommodate the electronic functional elements. It is connected to the bottom section by means of contact pins. The module sections are positively interlocked. Terminals are used for connection of the module bottom section.

Electrical data

Rated insulation voltage	up to	400	V
Rated voltage	max.	400	V
Rated current	max.	6.3	A

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc. Any additional technical features are specified in the test documents.

Rated conductor cross section	max.	2.5	mm²
Ambient temperatures		55 °C to 55	°C

The isolation terminal is designed for -55 °C to 60 °C temperature resistance.

(16) Test report PTB Ex 04-13013

(17) Special conditions for safe use

None

Notes for manufacturing and operation

The isolation terminal shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in EN 50014, section 1.2.

When installing the isolation terminal in an enclosure designed to type of protection Intrinsic Safety "e" in compliance with EN 50019, the clearance and creepage distances specified in section 4.3, section 4.4 and table 1 shall be duly considered.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, February 26, 2004

Dr.-Ing. U. Klausmeyer
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Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

1st SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1007 U

(Translation)

Equipment: Isolating terminal, type GHG 101 ....R....

Marking: Ⓔx **II 2 G Ex de IIC**

Manufacturer: Cooper Crouse-Hinds GmbH

Address: Neuer Weg Nord 49
69412 Eberbach, Germany

Description of supplements and modifications

The isolating terminal, type GHG 101 ....R...., may also be manufactured with the following modifications:

- Additional sealing compound is used as an alternative.
- If necessary, the volume can be reduced with the sealing compound, as specified in the documents.
- Rated current ..... max. 1.5 A
  With the reduced rated current, the isolating terminal is suited for ambient temperatures up to +70 °C; and it is designed for +75 °C temperature resistance.

Applied standards

EN 60079-0:2004 **EN 60079-1: 2004** **EN 60079-7: 2003**

Test report: PTB Ex 07-16056

Zertifizierungsstelle Explosionsschutz
By order:

Dr.-Ing. M. Thedens
Oberregierungsrat

Braunschweig, April 25, 2007