



## (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 06 ATEX 1009 U**



(4) Component: Actuating and signalling element, type GHG 640 96 .. P....

(5) Manufacturer: Cooper Crouse-Hinds GmbH

(6) Address: Neuer Weg Nord 49, 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 06-15328.

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

**EN 60079-0:2004**

**EN 60079-1:2004**

(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:

**II 2 G Ex d II**

Zertifizierungsstelle Explosionsschutz

By order:

Dr.-Ing. U. Klausmeyer  
Direktor und Professor

Braunschweig, 3 March 2006



## SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 06 ATEX 1009 U**

(15) Description of component

Actuating and signalling elements, type GHG 640 96 .. P.... , designed for mounting in enclosures of Flameproof Enclosure type of protection.

Field of application

Device group	II
Category	2 G
Type of protection (and group)	Ex d II (A, B, C)

Technical data

Working temperatures	-20...+70 °C or -20...+100 °C
Screw thread	M 22 x 1.5
Required depth of engagement (IEC/EN 60079-1:2004, section 5.3)	min. 5 mm or 8 mm
Application	Enclosures with reference pressure of max. 15 bar *

\* cf. additional notes for Manufacturing and Operation

(16) Test report PTB Ex Ex 06-15328

(17) Special conditions for safe use

None

Additional notes for manufacturing and operation

- 1) The actuating and signalling elements have to be included in the **type test** performed in compliance with EN 60079-1, section 15.1.3 (overpressure test) for the corresponding equipment / enclosure, if the reference pressure is higher than 15 bar.
- 2) The actuating elements with actuation shaft have to be included in the **type test** performed in compliance with EN 60079-1 section 15.2 (test for non-transmission of internal ignition) as required for IIA, IIB, IIC classification of the corresponding equipment / enclosure.
- 3) The actuating and signalling elements have to be installed in a way that prevents accidental loosening and rotation.

(18) Essential health and safety requirements

Met by compliance with the afore-mentioned standards.

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