

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 99 ATEX 1034



(4) Equipment: Components for panel mounting

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: Neuer Weg Nord 49, D-69412 Eberbach

(7) This equipment 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 equipment 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 99-19043.

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

EN 50014:1997

EN 50018: 1994

EN 50019: 1994

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

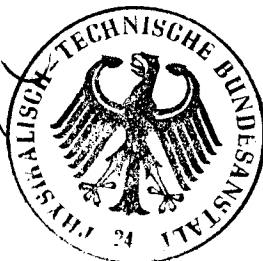
 **II 2 G EEx de IIC T6**

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 27, 1999

By order:

Dr.-Ing. U. Klausmeyer
Oberregierungsrat



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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1034

(15) Description of equipment

The components type GHG 418 R are designed in the type of Protection Flameproof Enclosure „d“ and have a terminal compartment with cable entries in the type of protection Increased Safety „e“.

This component series consists of signal lamp type GHG 418 1802 R as well as switch and control units type GHG 418 8... R with front elements for the various switches, push buttons and lamps, and are suitable for mounting into switch panels of any type such as control desks or cabinets.

Technical data

| | | Signal lamp | Switch and control unit |
|----------------------------|-------------|----------------------|-------------------------|
| Rated voltage: | AC | 12 to 500 V | to 400 V |
| | DC | 12 to 250 V | |
| Rated cross section: | max. | 2.5 mm ² | 2.5 mm ² |
| Temperature range for use: | | -55 °C to 80 °C (T6) | |
| Ambient temperature range: | | -55 °C to 50 °C | |

(17) Report PTB Ex 99-19043

(17) Special conditions for safe use

Not necessary

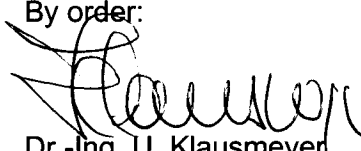
(18) Essential health and safety requirements

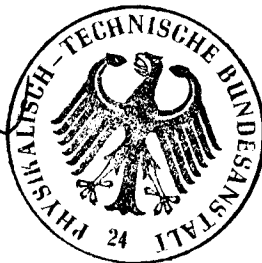
Met by compliance with the standards mentioned above.

Zertifizierungsstelle Explosionsschutz

Braunschweig, July 27, 1999

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Dr.-Ing. U. Klausmeyer
Oberregierungsrat



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1st SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1034

(Translation)

Equipment: Panel mounting modules, type GHG 418 R....

Marking:  II 2 G EEx de IIC T6

Manufacturer: CEAG Sicherheitstechnik GmbH

Address: Neuer Weg Nord 49
D-69412 Eberbach

Description of supplements and modifications

The actuator elements for panel mounting modules, type GHG 418 R...., are extended to include the key-operated switch, type GHG 410 1435 R0001. This switch element can be installation in control boards or control boxes made from metal or plastics.

Technical data

Wall thickness between 1.5 mm and 5 mm

Suited for group II apparatus,
with the mechanical risk high

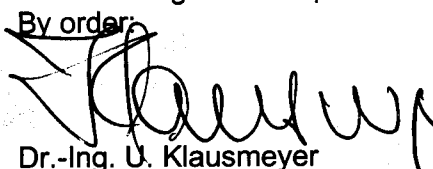
Local temperature range -20 °C to +55 °C

Shock protection, protection against solid bodies,
and protection against ingress of water IP54 according to EN 60529
as a minimum

Test report: PTB Ex 01-11124

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, December 20, 2001

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