



(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 1161

(4) Equipment: Load interrupter, master, motor protection and safety switch type GHG 262 R.... and GHG 263 R....

(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 00-19100.

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

EN 50014:1997 EN 50018:1994 EN 50019:1994 EN 50020:1994

(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 e d ia IIC T6

Zertifizierungsstelle Explosionsschutz

Braunschweig, November 16, 2000

By order:

Dr.-Ing. U. Klausmeier
Regierungsdirektor



SCHEDULE

(13)

(14) **EC TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1161**

(15) Description of equipment

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).

Technical data

Using flush-mounting switch GHG 263 R.... (PTB 99 ATEX 1031 U)

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. 2 x 16 mm ² single core, 2 x 10 mm ² finely stranded		

Using flush-mounting switch GHG 2.. ...R.... (PTB 98 ATEX 1117 U)

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. 2 x 2.5 mm ² single core, 2 x 4 mm ² finely stranded			
Ambient temperature range:		-55 °C to +55 °C			

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.

(16) Test report PTB Ex 00-19100

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1161

(17) Special conditions for safe use

None;

Notes for installation and use

If the clearance requirements for the connectors as specified in EN 50020 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.

(18) Essential health and safety requirements

The tests and the favourable results these have produced reveal that the load interrupter, master, motor protection and safety switch of type GHG 262 R.... and GHG 263 R.... meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

Zertifizierungsstelle Explosionsschutz
By order:



Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, November 16, 2000

1st SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1161

(Translation)

Equipment: Load interrupter, master, motor protection and safety switch
type GHG 262 R.... and GHG 263 R.....

Marking:  II 2 G EEx ed ia IIC T6

Manufacturer: CEAG Sicherheitstechnik GmbH

Address: Neuer Weg Nord 49
69412 Eberbach, Germany

Description of supplements and modifications

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.

Therefore the marking for the switch type GHG 262 R.... is changed into:

 II 2 G/D EEx ed ia IIC T6 IP66 T 55°C


and for the switch type GHG 263 R.... into

 II 2 G/D EEx ed ia IIC T6 IP66 T 53°C

Test report: PTB Ex 01-11119

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, May 7, 2001

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