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 00 ATEX 1032 X

(4) Equipment: Socket-outlet series connector serves type GHG 51. ... R ...

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: 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 00-10075.

(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 ed IIC T6 resp. T5

Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, July 24, 2000

In the absence of Dr.-Ing.
Regierungsdirektor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 30

(13) # SCHEDULE

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1032 X

(15) Description of equipment

The type GHG 51. ... R ... socket-outlet series connector serves to take the non-explosion protected plug-and-socket device inside the potentially explosive atmosphere into operation, provided no potentially explosive atmosphere is present while the repair work is carried out.

The plug-and-socket device is provided with a padlock to protect it from unauthorized use.

Electrical data

Type	GHG 511	GHG 512
Rated insulation voltage ..... up to	440 V	440 V
Rated voltage .....up to	440 V	440 V
Rated current ..... max.	16 A	32 A
Utilization category	AC-3	AC-3

In accordance with the relevant provisions, values other than those stated above are permissible, provided the making and breaking capacities are complied with. The respective values have been specified by the manufacturer, depending on the mode of operation, utilization category, etc.

Nominal frequency	up to	440 Hz	
Rated cross-section			
plug	max.	2,5 mm^2	6 mm^2
wall-mounting socket-outlet	max.	4 mm^2	4 mm^2
main terminals	max.		10 mm^2
auxiliary terminals	max.		2,5 mm^2

(16) Test report PTB Ex 00-10075

(17) Special conditions for safe use

The socket-outlet series connector must be protected by a padlock against unauthorized use.

Putting into operation of the socket-outlet series connector requires the approval of the works manager or of the person authorized by him. The approval may be granted only if it has been ensured that no explosive atmosphere will be present while the repair work is carried out or if the necessary protective measures against explosion hazards have been taken.

The operator must be informed about the "Special conditions" in an appropriate form.

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SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1032 X

(18) Essential health and safety requirements

The tests carried out and their positive results show that the socket-outlet series connector complies with the requirements of Directive 94/9/EC and of the standards stated on the cover sheet.

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, July 24, 2000

In the absence of Dr.-Ing. U. Klausmeyer
Regierungsdirektor

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

1st SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1032 X

(Translation)

Equipment: Repair socket with explosion-proof disconnector, type GHG 51. .... R....

Marking: Ⓔx **II 2 G EEx ed IIC T6 or T5**

Manufacturer: CEAG Sicherheitstechnik GmbH

Address: Neuer Weg Nord 49
69412 Eberbach, Germany

Description of supplements and modifications

- The repair socket with explosion-proof disconnector, type GHG 51. .... R.... , may also use other enclosure types and other CEE flanged sockets with or without pilot lamp.
- The repair socket with explosion-proof disconnector, type GHG 51. .... R.... , is supplemented by a number of additional sizes.

Electrical data

Type GHG 514

Rated insulation voltage	up to	550 V
Rated voltage	up to	550 V
Rated current	max.	63 A
Utilisation category		AC-3

Auxiliary switch

Rated voltage U_e	up to	24 V	230 V		400 V	500 V		690 V	
Rated current I_e	max.	6 A	0.4 A	8 A	20 A	6 A	16 A	20 A	
related to utilisation category		DC-11	DC-11	AC-11	AC-3	AC-11	AC-3	AC-1	

Provided the making and breaking capacities are met, rated values other than those specified above are acceptable and will be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.

Rated frequency	up to	400 Hz
Rated cross section		
Plug	max.	16 mm² finely stranded
Wall-mounting socket	max.	16 mm² finely stranded, 25 mm² stranded
with cable lug or additional terminal	max.	35 mm²
Auxiliary terminals	max.	2.5 mm²

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1st SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 00 ATEX 1032 X

Test report: PTB Ex 01-11131

Special conditions

The special conditions of the EC-type-examination certificate are valid for this supplement too.

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, July 24, 2001

Dr.-Ing. H. Wehinger
Direktor und Professor