


## Translation

# (1) EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 15 ATEX E 125 X**
- (4) Equipment: **Load- and safety switch GHG 264 00 \* \* \* \* \***
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council 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 Test and Assessment Report BVS PP 15.2217 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- |                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>EN 60079-0:2012 + A11:2013</b> | <b>General requirements</b>        |
| <b>EN 60079-1:2014</b>            | <b>Flameproof enclosure "d"</b>    |
| <b>EN 60079-7:2007</b>            | <b>Increased Safety "e"</b>        |
| <b>EN 60079-11:2012</b>           | <b>Intrinsic Safety "i"</b>        |
| <b>EN 60079-31:2014</b>           | <b>Protection by Enclosure "t"</b> |
- (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 appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 **II 2G Ex db e IIB/IIC T5/T6 Gb**  
**II 2G Ex db e [ia/ib] IIB/IIC T5/T6 Gb**  
**II 2D Ex tb IIIC T80°C Db**

DEKRA EXAM GmbH  
Bochum, dated 2015-11-02

Signed: Dr. Eickhoff

Certification body

Signed: Schumann

Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate  
BVS 15 ATEX E 125 X**
- (15) 15.1 Subject and type

Load- and safety switch GHG 264 00 \*\*1) \* \*2) \*\*\*

- 1) Switching mode
  - 17 = Load- and safety switch 6-pole version with terminals (plastic version)
  - 20 = Load- and safety switch 3-/4-pole version (plastic version)
  - 21 = Load- and safety switch 6-pole version (plastic version)
  - 23 = Load- and safety switch 3-/4-pole version (metal version)
  - 24 = safety switch for converter supply (plastic version)
- 2) Equipment version
  - 0 = standard
  - 9 = special version

### 15.2 Description

The Load- and safety switch GHG 264 00 \*\* \* \* \*\*\* is used for the switching of rated currents up to 80 A and/or for circuits in type of protection intrinsic safety "i" built in a 3-/4- or 6 pole version.

The standard version load- and safety switch GHG 264 00 \*\* \* \* \*\*\* consists of a separately certified empty enclosure in type of protection increased safety "e" or protection by enclosure "t" with a switch base type GHG 264 \*\*\*\* R \*\*\*\* installed inside.

Additional, the version type GHG 264 00 24 \* \* \*\*\* is used with a separately certified mounting switch type 07-1501-6420/01. Optionally, a switch block type GHG 41 .....R....., signal lamp type GHG41. .... R....., terminal block type GHG 240 130. R ...., or terminal block type GHG 790 110.R .... can be installed.

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Empty enclosure GHG 60 . . . . .	PTB 99 ATEX 3118 U	EN 60079-0:2009 EN 60079-7:2007 EN 60079-31:2008
Switch base GHG 264 **** R ****	BVS 12 ATEX E 127 U	EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007 EN 607-11:2007
Miniature insert switch 07-1501-.../....	EPS 14 ATEX 1 688 U	EN 60079-0:2012 EN 60079-1:2007
Signal lamp	IBExU 12 ATEX 1047 U	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-11:2012
Ex-d component GHG 417/418	IBExU 14 ATEX 1030 U	EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007
Terminal block GHG 240 130. R ....	PTB 01 ATEX 1004 U	EN 60079-0:2012 EN 60079-7:2007
Terminal block GHG 790 110. R ....	PTB 00 ATEX 3102 U	EN 60079-0:2009 EN 60079-7:2007

### 15.3 Parameters

#### Electrical parameter

Rated voltage	up to 690 V
Rated current	up to 80 A
Cross-section (main contact)	up to 16 mm <sup>2</sup> (fine wire), up to 25 mm <sup>2</sup> (multi wire), up to 25 mm <sup>2</sup> (fine wire with special cable lug), up to 35 mm <sup>2</sup> (multi wire with special cable lug)
Cross-section (auxiliary contact)	up to 4 mm <sup>2</sup> (fine wire and multi wire)

#### Thermal parameters:

Ambient temperature range	-20 °C up to +40 °C / +50 °C / +55 °C (IIC) -36 °C up to +40 °C / +50 °C / +55 °C (IIB) -35 °C up to +40 °C / +50 °C / +55 °C (IIB) (only for safety switch of converter supply) -35 °C up to +55 °C (IIIC)
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Cross-section	Rated current	Temperature class at T <sub>amb</sub>		
		+40 °C	+50 °C	+55 °C
16 mm <sup>2</sup>	≤ 63 A	T6	T6	T6
	≤ 80 A	T6	T5	---
25 mm <sup>2</sup>	≤ 80 A	T6	T6	T6
35 mm <sup>2</sup>	≤ 80 A	T6	T6	T6

#### (16) Test and Assessment Report

BVS PP 15.2217 EG as of 2015-11-02

#### (17) Special conditions for safe use

The used enclosure made from the material SMC 0190 RAL 7035 is only permitted to use in Zone 1 and has to carry the following warning "WARNING – CLEAN ONLY WITH DAMP CLOTH".

The dimensions of the flameproof joints are in parts other than the relevant minimum or maximum values of EN 60079-1:2014. For information on the dimensions of the flameproof joints contact the manufacturer.

For the combination with circuits in type of protection intrinsic safety "i" the creepage and clearance distances between the intrinsic and non-intrinsic circuits must be fulfilled according to EN 60079-11:2012.

