

Translation

EU-Type Examination Certificate Supplement 1

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 17 ATEX E 073 X**

Product: **Plug and socket system GHG 514* *** R *****

Manufacturer: **Cooper Crouse-Hinds GmbH**

Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**

This supplementary certificate extends EC-Type Examination Certificate No. BVS 17 ATEX E 073 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 No. BVS PP 17.2167 EU.

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

EN 60079-0:2012 + A11:2013	General requirements
EN 60079-1:2014	Flameproof enclosure "d"
EN 60079-7:2015	Increased Safety "e"
EN 60079-11:2012	Intrinsic Safety "i"
EN 60079-31:2014	Protection by Enclosure "t"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex db eb [Ia Ga] IIC/IIB T5 Gb**
II 2D Ex tb IIC T80°C Db

DEKRA EXAM GmbH
Bochum, 2018-02-07

Signed: Dr Franz Eickhoff

Certifier

Signed: Dr Michael Wittler

Approver

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15 Product description

15.1 Subject and type

Plug and socket system GHG 514^{1) *2) *3) **4) R^{5) *6) ***}}

- 1) Current 4 = 63 A / 60 A
2) Design 4 = Wall socket
7 = Plug
3) Number of poles 4 = 4-poles (3+PE)
5 = 5-poles (3+N+PE)
4) Voltage 04 = 110 / 130 V AC
05 = 690 V AC
06 = 230 / 415 V AV
07 = 500 V AC
08 = Special version
09 = 127 / 230 V
12 = 42 V AC
5) Temperature range R = ATEX & IECEx version
6) Version 0 = plastic
3 = internal metal plate

15.2 Description

The plug and socket system type GHG 514** ** R * *** consists of a flange socket which is built as a wall socket and is used for connection of a plug.

The plug is built in type of protection Increased Safety "e" and Protection by Enclosure "t".

The wall socket is built in type of protection Increased Safety "e" and Protection by Enclosure "t".

The wall socket can be equipped with a separately certified signal lamp type GHG41. R, switch block type GHG 41. R, switch base type GHG 2** ** ** R **** and / or switch base type GHG 264 **** R ****

Listing of all components

Subject and type	Certificate
Signal lamp GHG 41. R...	IBExU 12 ATEX 1047 U
Switch block GHG 41. R	IBExU 14 ATEX 1030 U
Switch base GHG 2** ** ** R ****	BVS 14 ATEX E 076 U
Switch base GHG 264 **** R ****	BVS 12 ATEX E 127 U

Reason of the supplement:

Modification of the ambient temperature range for the wall socket in Gas Group IIB (-55 °C ... +40 °C - mech. damage > 4 Joule protected mounting).

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This certificate may only be reproduced in its entirety and without any change.

15.3 Parameters

Plug and socket system - Wall socket type GHG 514*** R*** (Gas Group IIC/IIB)

Rated voltage:	690	V AC
Rated current:	60 / 63	A
Ambient temperature range:	Wall socket:	-55 °C ... +40 °C (IIB - 4 Joule) -40 °C ... +55 °C (IIB - 7 Joule) -20 °C ... +55 °C (IIC)
	Plug:	-55 °C ... +55 °C

Intrinsic safe circuits (according IBExU 12 ATEX 1047 U)

Rated voltage:	10 - 30	V DC
Rated current:	max. 25	mA
U_i	30	V DC
I_i	100	mA
P_i	750	mW
C_i, L_i : negligible		

Potential-free switch contact for the connection of an intrinsic safe circuit

Rated voltage:	max. 30	V AC / DC
Rated current:	max. 400	mA
C_i, L_i : negligible		

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17 Special Conditions for Use

The plugs have to be examined of any damages before being connected to the socket.

The wall socket for Gas Group IIB and $T_{amb} -55 °C$ must be protected against mechanical damage > 4 Joule.

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
Bochum, dated 2018-02-07
BVS-Pz/Mu A 20171096



Certifier



Approver