Translation

1 # EU-Type Examination Certificate

2 **Components intended for use on/in an Equipment or Protective System intended for use in potentially explosive atmospheres**
Directive 2014/34/EU

3 EU-Type Examination Certificate Number: **BVS 20 ATEX E 090 U**

4 Product: **Flange socket type GHG 5128... R....**

5 Manufacturer: **Cooper Crouse-Hinds GmbH**

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

7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA Testing and Certification 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 20.2147 EU.

9 The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018	**General requirements**
EN 60079-1:2014	**Flameproof enclosure "d"**
EN IEC 60079-7:2015 + A1:2018	**Increased Safety "e"**
EN 60079-31:2014	**Protection by Enclosure "t"**

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system respectively product.

11 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.

12 The marking of the product shall include the following:

II 2G Ex db eb IIC / IIB Gb
II 2D Ex tb IIIC Db

DEKRA Testing and Certification GmbH
Bochum, 2020-10-13

Signed: Jörg-Timm Kilisch

Managing Director

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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 20 ATEX E 090 U

15 **Product description**

15.1 **Subject and type**

Flange socket type GHG 512[1]8[2].[3]..[4] R....

[1] Rated current	2 = 32 A
[2] Type	8 = flange socket
[3] Number of poles	1 = free
	4 = four-pole
	5 = five-pole
	6 = free
	8 = free
	0 = free
[4] Clock / Voltage / Code colour	01 Special equipment no code colour
	03 230 V – code colour blue + 230
	04 110 / 130 V – code colour yellow
	05 690 V – code colour black
	06 230 / 415 V – code colour red
	07 500 V – code colour black + 500
	08 Special equipment no code colour
	09 127 / 230 V – code colour blue
	12 Special equipment no code colour

15.2 **Description**

The flange socket type GHG 5128... R.... is used to connect portable electrical equipment. The flange socket must be installed at a protective housing in type of protection according EN 60079-7/-31.

The flange socket is made of plastic material and equipped with contact chamber in type of protection Flameproof Enclosure "d". The flange socket could be equipped with an angle adapter, alternatively.

15.3 **Parameters**

Variant	4-pole	5-pole	Unit
Rated voltage	max. 690	max. 690	V
Rated current	max. 32	max. 32	A
Rated frequency	max. 400	max. 400	Hz
Limits of service temperature			
Standard version:	-55 °C .... +80 °C (IIB) -45 °C .... +80 °C (IIC)		
Version with angle adapter:	-55 °C .... +70 °C (IIB) -45 °C .... +70 °C (IIC)		

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16 **Report Number**

BVS PP 20.2147 EU, as of 2020-10-13

17 **Installation Instructions**

The flange socket must be installed in a protective housing in type of protection Increased Safety "e" according EN 60079-7 / Protection by Enclosure "t" according EN 60079-31. The mounting has to fulfil the IP protection degree ≥ IP54 (EPL Gb) / ≥ IP6x (EPL Db) according to EN 60079-0.

The lengths of the flameproof joints are in parts longer and the gaps of the flameproof joints are in parts smaller than the values of table 2 resp. 3 of EN 60079-1:2014. For information of the dimensions of the flameproof joints contact the manufacturer.

The dielectric strength test according EN 60079-7 cl. 6.1 has to be performed for the complete equipment.

The bayonet ring has to be protected against electrostatic charging processes.

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 Testing and Certification GmbH
Bochum, 2020-10-13
BVS-Pz A20200519

Managing Director

DAkkS Deutsche Akkreditierungsstelle D-ZE-17438-02-00

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Translation

1 # EU-Type Examination Certificate Supplement 1

2 **Components intended for use on/in an Equipment or Protective System intended for use in potentially explosive atmospheres**
Directive 2014/34/EU

3 EU-Type Examination Certificate Number: **BVS 20 ATEX E 090 U**

4 Product: **Flange socket type GHG 5128… . ….**

5 Manufacturer: **Cooper Crouse-Hinds GmbH**

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

7 This supplementary certificate extends EU-Type Examination Certificate No. BVS 20 ATEX E 090 U to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any variations specified in the appendix attached to this certificate and the documents referred to therein.

8 DEKRA Testing and Certification 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 20.2147 EU.

9 The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018	**General requirements**
EN 60079-1:2014/AC:2018	**Flameproof enclosure "d"**
EN IEC 60079-7:2015 + A1:2018	**Increased Safety "e"**
EN 60079-31:2014	**Protection by Enclosure "t"**

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system respectively product.

11 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.

12 The marking of the product shall include the following:

II 2G Ex db eb IIC / IIB Gb **II 2D Ex tb IIIC Db**	(with switch socket)
II 2G Ex eb IIC / IIB Gb **II 2D Ex tb IIIC Db**	(without switch socket)

DEKRA Testing and Certification GmbH
Bochum, 2021-07-01

Signed: Jörg-Timm Kilisch

Managing Director

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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 20 ATEX E 090 U
Supplement 1

15 **Product description**

15.1 **Subject and type**

Flange socket type GHG 512[1)]8[2)].[3)]..[4)] [5)].[6)].[7)]..[8)]

[1)] Rated current	2 = 32 A
[2)] Type	8 = flange socket
[3)] Number of poles	4 = four-pole 5 = five-pole
[4)] Clock / Voltage / Code colour	00 - 12 = mechanical coding / voltage (max. 690 V AC)
[5)] Version	R = ATEX / IECEx version
[6)] Variant	0 = plastic and other housings
[7)] Implementation	0 = Standard with "db eb" variant of flange socket 4 = flange socket "eb"

[8)] 00 - 99 = alphanumeric character string, without influence on the explosion protection

15.2 **Description**

The flange socket type GHG 5128... .... is used to connect portable electrical equipment. The flange socket must be installed at a protective housing in a type of protection according EN 60079-7/-31.

The flange socket is made of plastic material and can be equipped with contact chamber in type of protection Flameproof Enclosure "d", alternatively. The flange socket could be equipped with an angle adapter, alternatively.

Reason of the supplement:

- The gasket of the flange socket enclosure can be made of an alternative material.
- The flange socket can be equipped with or without contact chamber.
- The installation instruction "The bayonet ring has to be protected against electrostatic charging processes." was deleted, due to a proof by type test.
- Modification of the type code

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15.3 **Parameters**

Variant	4-pole	5-pole	Unit
Rated voltage	max. 690	max. 690	V
Rated current	max. 32	max. 32	A
Rated frequency	max. 400	max. 400	Hz
Limits of service temperature			
Standard version „db eb“:	-55 °C .... +80 °C (IIB) -45 °C .... +80 °C (IIC)		
Version “db eb” with angle adapter:	-55 °C .... +70 °C (IIB) -45 °C .... +70 °C (IIC)		
Standard version „eb“ without switch socket:	-55 °C .... +80 °C (IIB/IIC)		
Version “eb” with angle adapter without switch socket:	-55 °C .... +70 °C (IIB/IIC)		

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BVS PP 20.2147 EU, as of 2021-07-01

17 **Installation Instructions**

The flange socket must be installed in a protective housing in type of protection Increased Safety “e” according EN 60079-7 / protection by enclosure “t” according EN 60079-31. The mounting has to fulfil the IP protection degree ≥ IP54 (EPL Gb) / ≥ IP6x (EPL Db) according to
EN 60079-0.

The dielectric strength test according EN 60079-7 cl. 6.1 has to be performed for the complete equipment.

Version with “db” switch socket:
The lengths of the flameproof joints are in parts longer and the gaps of the flameproof joints are in parts smaller than the values of table 2 resp. 3 of EN 60079-1:2014. For information of the dimensions of the flameproof joints contact the manufacturer.

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