Translation

1 # EU-Type Examination Certificate

2 **Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014**

3 EU-Type Examination Certificate Number: **BVS 22 ATEX E 052 X** Issue: **00**

4 Equipment: **Control and Distribution Cabinets type EG-VA******/***-****/***.******

5 Manufacturer: **Hans Turck GmbH & Co. KG**

6 Address: **Witzlebenstr. 7, 45472 Mülheim/Ruhr, 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 23.2072 EU.

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

EN IEC 60079-0:2018	**General requirements**
EN 60079-1:2014	**Flameproof enclosure "d"**
EN 60079-5:2015	**Powder filling "q"**
EN IEC 60079-7:2015 + A1:2018	**Increased Safety "e"**
EN 60079-11:2012	**Intrinsic Safety "i"**
EN 60079-15:2010	**Type of protection "n"**
EN IEC 60079-15:2019	**Type of protection "n"**
EN 60079-18:2015 + A1:2017	**Encapsulation "m"**
EN 60079-28:2015	**Optical radiation "op is/pr/sh"**
EN 60079-31:2014	**Protection by Enclosure "t"**

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. 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 2(1)G **II 2(1)D**	**or**	
II 3(1)(2)G **II 3(1)(2)D**	**or**	**Complete marking: see paragraph 15.1**
II (1)(2)G **II (1)(2)D**		

DEKRA Testing and Certification GmbH
Bochum, 2023-11-20

Signed: Oliver Brumm

Managing Director

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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 22 ATEX E 052 X issue 00

15 **Product description**

15.1 **Subject and type**

Control and Distribution Cabinets type EG-VA******/***-****/***.******

Explanation of type designation:

EG-VA ****/***-****/***.******

Enclosure size: (B)BB(H)HH(T)TT
(B)BB - Enclosure width in cm
(H)HH - Enclosure height in cm
(T)TT - Enclosure depth in cm

Enclosure material:
0 - Enclosure material stainless steel: 1.4301
1 - Enclosure material stainless steel: 1.4404
2 - Other alloys with identical thermal resistance like 0 and 1
3 - Plastic, GRP
4 - Aluminum
5 - Die cast aluminum
6 - Sheet steel
9 - Special variant, see special no.

Door:
0 - Door hinge right without inspection window
1 - Door hinge right with inspection window
2 - Door hinge left without inspection window
3 - Door hinge left with inspection window
4 - Door opening upwards without inspection window
5 - Door opening upwards with inspection window
7 - Double door
8 - Cover
9 - Special variant, see special no.

Flange plate:
0 - Blind plate (drilling by user acc. to operating instruction manual)
1 - Flange plate M16 drill holes, max. assembling
2 - Flange plate M20 drill holes, max. assembling
3 - Special variant, e.g., drilling pattern (included in special number)
4 - Flange plate M16 drill holes, standard assembling
5 - Flange plate M20 drill holes, standard assembling
9 - without flange plate – holes in housing

Module rack:
00 - No module rack
01 - Module rack MT08-2G
02 - Module rack MT16-2G
04 - Module rack MT08-3G
05 - Module rack MT16-3G
06 - Module rack MT24-3G
07 - Module rack MT08-N
08 - Module rack MT16-N
09 - Module rack MT24-N
10 - Module rack MT16-2G/MSA
20 - various module racks, see special no.

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Explanation of type designation:

EG-VA ****/***-****/***.********

Power supply:
Not applicable with module rack = 00

0 - Without AC/DC power supply unit
1 - With MT-PPS
2 - 1 power supply unit 230/115V AC
3 - 2 power supply units 230/115V AC
4 - Special version, see special no.

Segment coupler:
Not applicable with module rack = 00

0 - No segment coupler
1 - 1 segment coupler OC11Ex/2G.2 or FOC11EX-2G
2 - 2 segment couplers OC11Ex/2G.2 or FOC11EX-2G
3 - 1 external coupler
4 - 2 external couplers
5 - 1 segment coupler OC11Ex/3G.2 or FOC11-3G
6 - 2 segment couplers OC11Ex/3G.2 or FOC11-3G
7 - 1 segment coupler SC11Ex/3G
8 - 2 segment couplers SC11Ex/3G
9 - Special variant, see special no.
A - 2 segment couplers FOC12EX-2G
B - 1 segment coupler FOC12EX-2G
C - 2 segment couplers FOC12-3G
D - 1 segment coupler FOC12-3G

Device category:

2GD	Mounting in zone 1/21
3GD	Mounting in zone 2/22
2G	Mounting in zone 1
3G	Mounting in zone 2
2D	Mounting in zone 21
3D	Mounting in zone 22
N	Mounting in non-ex-area

Special number:
e.g. A12345

Describes a design that cannot be specified exactly in the type code, e.g. special flange plate etc.
Starting with A, the special number stands for a fixed max. equipment with a defined temperature range.

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Marking

Ex marking for installation in zone 1 or 21 *

II 2(1)G Ex eb db q mb ib [ia Ga] [op is Gb] [op is Ga] IIA/IIB/IIC T6/T5/T4/T3/T2/T1 Gb
II 2(1)D Ex tb [ia Da] [op is Db] [op is Da] IIIA/IIIB/IIIC T135°C/T80°C Db

Ex marking for installation in zone 2 or 22 * / **

II 3(1)(2)G Ex ec mc nA nC ic q db eb mb ib [ia Ga] [op is Gb] [op is Ga] IIA/IIB/IIC T6/T5/T4/T3/T2/T1 Gc
II 3(1)(2)D Ex tc [ia Da] [op is Db] [op is Da] IIIA/IIIB/IIIC T135°C/T80°C Dc

Ex marking for installation in safe area *

II (1)(2)G [Ex ia Ga] [Ex op is Gb] [Ex op is Ga] IIA/IIB/IIC
II (1)(2)D [Ex ia Da] [Ex op is Db] [Ex op is Da] IIIA/IIIB/IIIC

* The Ex marking represents the maximum assembly. It can vary according to the customer-specific assembly in the information on the types of protection, explosion group, temperature class and max. surface temperature.

** Category 3G / 3D equipment is not the subject of this EU-Type Examination Certificate.

15.2 **Description**

The control and distribution cabinets type EG-VA******/***-****/***.****** are stationary installed, explosion-protected electrical equipment for use in hazardous areas of Zone 1, Zone 21, Zone 2, Zone 22 or in safe areas. They can have intrinsically safe output circuits and optical outputs that can be routed up to Zone 0 or Zone 20.

The control and distribution cabinets type EG-VA******/***-****/***.****** are designed in the types of protection Increased safety "e" and Protection by enclosure "t" as well as intrinsic safety “i”. For control and distribution cabinets, which contain only intrinsically safe circuits, the housing is designed in accordance with EN/IEC 60079-11 in degree of protection IP54.

Various separately certified components and equipment can be installed in the enclosure in accordance with the manufacturer's documentation. In the dust version for Zone 21 and Zone 22, industrial components can also be used.

A thermal analysis is carried out according to a defined procedure.

Depending on the types of protection of the built-in assemblies, the marking on the housing is supplemented accordingly.

The verification of intrinsic safety for the installed, factory interconnected intrinsically safe and associated equipment is not the subject of this certificate.
The assessment of the intrinsic safety is carried out by Hans Turck GmbH & Co. KG on an order-related basis. The intrinsic safety verification according to EN 60079-14 is part of the customer documentation supplied with the product.

Listing of all components used to refer to older standards

Subject and type	Manufacturer	Certificate	Standards
Relay type 07-7311-937-****/****	BARTEC GmbH	PTB 97 ATEX 1068 U	EN 60079-0:2012[2] EN 60079-1:2014 EN 60079-7:2007[2] EN 60079-11:2012

[1] No applicable technical differences
[2] Technical differences evaluated and found satisfactory

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15.3 **Parameters**

Nominal Voltage:	24	V DC	or
	115	V AC	or
	230	V AC	
Power dissipation:	depends on the unit variant		
Max. ambient temperature range:	Ta	-40°C up to +70°C	

* The electrical data of all equipment and components used can be found in the respective operating instructions.

* The equipment and the components are operated within their certified parameters.

* The permissible ambient temperature and the temperature class depend on the devices used and the installed power and are determined within the context of the temperature analysis carried out by the manufacturer and specified on the nameplate.

* The degree of ingress protection depends on the equipment and components used and is marked on the nameplate.

16 **Report Number**

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17 **Specific Conditions of Use**

The special conditions for safe use depend on the Ex Equipment and Ex Components used and can be found in the operating instructions supplied.

18 **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

19 **Remarks and additional information**

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, 2023-11-20
BVS-Hn/MGR A 20200975 / 3420468

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