IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx TUR 14.0033X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2014-12-17)
Date of Issue:	2024-02-24		
Applicant:	**HIMA Paul Hildebrandt GmbH** Albert-Bassermann-Str. 28 68782 Brühl Deutschland **Germany**		
Equipment:	**Planar 4 System Modules**		
Optional accessory:			
Type of Protection:	**Ex ec nC IIC Gc**		
Marking:	Ex ec IIC T4 Gc Ex ec nC IIC T4 Gc		

Approved for issue on behalf of the IECEx Certification Body: **Dipl.-Ing. Klauspeter Graffi**

Position: **Head of Certification Body**

Signature: (for printed version)

Date: (for printed version) 2024-02-24

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany

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Manufacturer: **HIMA Paul Hildebrandt GmbH**
Albert-Bassermann-Str. 28
68782 Brühl
Deutschland
Germany

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/TUR/ExTR14.0029/01

Quality Assessment Report:

DE/PTB/QAR11.0008/06

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Planar 4 System

For details see attachment

SPECIFIC CONDITIONS OF USE: YES as shown below:
1.The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

2.The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC 60079-0.

3.The information of the Planar Ex manual concerning the selection criteria for the enclosure (cabinet) and the special installation instructions have to be considered.

4.The pins of the contact loop (EC) for the fault signal (available on each module) shall solely be supplied with the 24V supply voltage of the system.

5.The switching current of the relay module 32110 has to be limited to max 2A if the slot at the right side of the module is not used. Otherwise it has to be limited to 1A. The switching current of the relay modules 3210x has to be limited to max 3A if the slot at the right side of the module is not used. Otherwise it has to be limited to 2A.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Standard update to IEC 60079-0 Ed. 7, IEC 60079-7 Ed. 5.1, IEC 60079-15 Ed. 5
- Change of marking code due to standard update
- Hardware change of module K9203A
- Modules 90902 and 90912 were deleted due to end of life

Annex:

DE-IECEx_TUR_14 0033X_01_Attachment_1.pdf

Attachment to to Certificate IECEx TUR 14.0033X issue 01

Device: Planar4 System Modules

Manufacturer: HIMA Paul Hildebrandt GmbH

Address: Albert-Bassermann-Str. 28
68782 Brühl
Germany

General product information:

Planar4 System Modules with assemblies type ** ***

12100, 13110, 22100, 22120, 22121, 32100, 32101, 32102, 32103, 32110, 42100, 42110, 42200, 42300, 42400, 42500, 52100, 52110, 62100, 80105, 80106, 80107, 80110, 90100, 90300, 90900, 90901, 90910, 90911, K9203A

The type designation of the modules consists of five digits. It is defined according to the following code:

Digit					Allocation
1	2	3	4	5	
1					Input modules
2					Output modules
3					Relay modules
4					Logic function modules
5					Timer function modules
6					Analogue modules
7					
8					Communication modules
9					Power supply, accessories
	0				No certification
	1				(Ex)i certificate
	2				TÜV certificate fs, safety-related
	3				(Ex)i and TÜV certificate fs
	4				
		0…9	0…9		Sequential numbers 00...99
				0	Base version
				1…9	Versions

Additionally the ventilation module K9203A is available as an option.

The HIMA Planar4 System represents a modular electronic system featuring Euro modules for designing hard-wired safety-related control and monitoring systems. It operates with a system voltage of 24 V DC. A list of all available modules and power supplies and accessories can be seen in the user manual.

Technical data

Rated voltage 20.4 … 28.8 V

Ambient temperature range -25 °C ≤ T_a ≤ +70 °C

The relay modules have a switching voltage of up to 250V:

Module		Inputs		Output		
Type	Functions per module	1-signal	with pre-logic	Fuse	Fuse with monitoring	Switching voltage
32 100	2	●	●		●	24 VDC, 24 VAC
32 101	2	●	●		●	48/60 VDC, 60 VAC
32 102	2	●	●		●	110 VDC, 127 VAC
32 103	2	●	●		●	220 VDC, 230 VAC
32 110	4	●	●	●		≤ 250 VDC / VAC