



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 CSA 22.0004X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2022-04-01)
Date of Issue:	2022-10-21		
Applicant:	PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg Germany		
Equipment:	Marshalling Base Module		
Optional accessory:			
Type of Protection:	Ex ec		
Marking:	Ex ec IIC T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations, Toronto

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Manufacturer: **PHOENIX CONTACT**
586 Fulling Mill Road
Middletown PA 17057
United States of America

Manufacturing
locations: **PHOENIX CONTACT**
586 Fulling Mill Road
Middletown PA 17057
United States of America

**PHOENIX CONTACT Electronics
GmbH**
Dringenauer Straße 30
31812 Bad Pyrmont
Germany

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[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:

[CA/CSA/ExTR22.0030/00](#)

Quality Assessment Reports:

[NL/DEK/QAR11.0009/08](#)

[NL/DEK/QAR11.0012/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The BASE-MSTB/D37M/16CH/EX is a marshalling base for the connection of up to sixteen field signals to a universal I/O system. It accepts various input/output accessory (IOA) modules to match the specific signal requirements for each channel.

Ratings Refer to the Annex:

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Provision shall be made externally to prevent the rated input from being exceeded by transient disturbances of more than 140% of the rated voltage. See electrical ratings in the operating manual.
2. The equipment must be installed in a suitably certified, tool-secured enclosure providing a minimum ingress protection of IP 54 in accordance with IEC 60079-0. The overall equipment (with its enclosure) shall only be used in an area of pollution degree 2 or better, as defined in IEC 60664-1. Alternatively, the additional enclosure must provide a pollution degree of 2 or better, as defined in IEC 60664-1, on the inside.
3. If 120 or 230 VAC is applied to P2+/P2-, no IOA modules with a supply voltage of 24 VDC powered by the P2+/P2- can be used in conjunction with the base element.
4. The product was successfully evaluated against IEC 60079-11 as Simple Apparatus and is suitable for use with PHOENIX CONTACT certified IOA Intrinsically Safe modules for up to EPL Ga/Da.
5. Product complies with the dielectric strength requirements of IEC 60079-11. Intrinsically safe circuits are isolated from non-intrinsically safe circuits. Additionally, all circuits are isolated from PE.
6. When the equipment is connected to intrinsically safe circuits, provision shall be made external to the equipment that ensures that the circuits are limited to overvoltage category II as defined in IEC 60664-1.
7. When the equipment is used for the connection of intrinsically safe circuits:
 - Only modules that have intrinsically safe field connections shall be fitted
 - No connections are permitted on P1 +/-
 - 30VDC maximum is permitted on P2+/-
8. A type Divider BASE/U/RAIL DIVIDER partition shall be fitted between a base module that has non-intrinsically safe circuits connected and an adjacent base module that has intrinsically safe circuits connected.
9. When used in intrinsically safe applications, all signals in the D37M connector must be intrinsically safe (Ex ic) or nonincendive signals. It is not permitted to mix intrinsically safe (Ex ic) and nonincendive signals with non-intrinsically safe or incendive signals within the same module.
10. When the equipment is connected to intrinsically safe circuits, the controller cable assembly shall be used for connections to equipment that is housed in the same enclosure as this equipment controller. The cable is not permitted to be used for connections to equipment external to the enclosure
11. When the equipment is connected to intrinsically safe circuits, the controller cable assembly capacitance and loop inductance shall be taken into account in any intrinsic safety system assessment. It should be noted that values of input current and voltage equal to, and lower than, the specified Ii and Ui IOA modules may not be intrinsically safe for a particular length of cable.
12. All terminal screws, including any that are not wired, shall be fully tightened before the equipment is energised.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

This issue recognises the following change; refer to the certificate annex to view a comprehensive history:

1. To permit inclusion of reference to the FLKM-PA-D37/HW/DIO/C300 that mounts to a Honeywell Universal I/O system.

Annex:

[IECEX CSA 22.0004X Annexe Issue 1.pdf](#)

Annexe to: IECEx CSA 22.0004X Issue 1
Applicant: Phoenix Contract GmbH & Co. KG
Apparatus: Marshalling Base Module –
BASE-MSTB/D37M/16CH/EX



Rating:

Description	Voltage	Current
POWER TERMINALS		
P1 +/-	30V Max	15A (Total current on all busses combined must not exceed 15A)
P2 +/-	30V, up to 230V AC/DC / Um of 253V AC/DC for IS	
FIELD TERMINALS		
Channel 1-16 – nA, nB, nC, nD, where n refers to the channel number	30V, up to 230V AC/DC (depending on IOA installed)	3A per channel (terminal rating only, refer to installed IOA for further information)
CONTROLLER INTERFACE (Either wiring via a D-SUB cable with open ended wiring on one side or via a 1:1 D-SUB cable with FLKM-PA-D37/HW/DIO/C300 adapter mounted to a Honeywell Universal I/O system).		
Channels 1-16 +/- (CHn +/-)	30V	1.0A / channel

The equipment has additionally been evaluated as simple apparatus in accordance with IEC 60079-11.

Full certificate change history

Issue 1 – this Issue introduced the following change:

1. To permit inclusion of reference to the FLKM-PA-D37/HW/DIO/C300 that mounts to a Honeywell Universal I/O system.