



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 22ATEX1005X** Issue: **1**

4 Equipment: **Marshalling Base Module – BASE-MSTB/D37M/16CH/EX**

5 Applicant: **Phoenix Contact GmbH & Co. KG**

6 Address: Flachsmarktstraße 8
32825 Blomberg
Germany

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-7:2015/A1:2018 EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 3G
Ex ec IIC T4 Gc
Ta = -40°C to +70°C



Signed: Michelle Halliwell

Title: Director of Operations

Project Number 80130177

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SCHEDULE

TYPE EXAMINATION CERTIFICATE

CSANe 22ATEX1005X

Issue 1

13 DESCRIPTION OF EQUIPMENT

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.

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 EN 60079-11.

Variation 1 - This variation introduced the following change:

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

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	25 April 2022	R80084547A	The release of the prime certificate.
1	21 October 2022	R80130176A	The introduction of Variation 1.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 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.
- The equipment shall 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 shall provide a pollution degree of 2 or better, as defined in IEC 60664-1, on the inside.

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- 15.3 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.
- 15.4 The product was successfully evaluated against EN 60079-11 as Simple Apparatus and is suitable for use with PHOENIX CONTACT certified IOA Intrinsically Safe modules for up to EPL Ga/Da.
- 15.5 Product complies with the dielectric strength requirements of EN 60079-11. Intrinsically safe circuits are isolated from non-intrinsically safe circuits. Additionally, all circuits are isolated from PE.
- 15.6 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.
- 15.7 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+/-
- 15.8 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.
- 15.9 When used in intrinsically safe applications, all signals in the D37M connector must be intrinsically safe (Ex ic) or non incendive signals. It is not permitted to mix intrinsically safe (Ex ic) and non incendive signals with non-intrinsically safe or incendive signals within the same module.
- 15.10 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.
- 15.11 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.
- 15.12 All terminal screws, including any that are not wired, shall be fully tightened before the equipment is energised.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 Each BASE-MSTB/D37M/16CH/EX base element shall be subjected to routine electric strength tests of 1500V r.m.s. in accordance with Clause 7.1 of EN 60079-7 Edition 5.1 between the following:

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Issue 1

- P2+/P2- / all Field Terminals (nA, nB, nC, etc) connected together and P1+/P1- / Controller and Controller Shield connected together.
- The P2+ terminal and the P2- terminal.

17.4 Each BASE-MSTB/D37M/16CH/EX base element shall be subjected to routine electric strength tests of 1500V r.m.s. in accordance with Clause 6.3.13 of EN 60079-11 Edition 6 between the P2+/P2- terminals connected together and all Field Terminals (nA/nB/nC, etc) terminals connected together.

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