



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 DNV 21.0024X** Page 1 of 5 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2022-10-10
Applicant: **PMV AUTOMATION AB**
Korta Gatan 9
SE-17154 SOLNA
Sweden
Equipment: **Monitoring Unit (Feedback unit)**
Optional accessory:
Type of Protection: **Ex ia**
Marking: Ex ia IIC T4 Ga

Approved for issue on behalf of the IECEx
Certification Body:

Bjørn Spongsveen

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway





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Manufacturer: **PMV AUTOMATION AB**
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Manufacturing
locations: **PMV AUTOMATION AB**
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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

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:

[NO/DNV/ExTR21.0019/00](#)

Quality Assessment Report:

[NO/NEM/QAR08.0008/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The monitoring unit detects the position and the direction of displacement from a disk or a shaft. In relation to the integral sensors, there are eleven models. Some of these models include a 4-20 mA transmitter. The inductive sensors, intrinsically safe certified, connected to terminals 2-3 and 5-6 by PEPERL & FUCHS, type NJ2-V3-N

Type designation :

F5IA and F5IE

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The various circuits of the electrical equipment must only be connected to intrinsically safe certified electrical apparatus or to intrinsically safe accessories, and these combinations must be compatible with the rules of intrinsic safety.
- The marking stickers and the potentiometer cover don't answer to the clause 7.4.2 of EN 60079-0 :2012. All precautions shall be taken in order to avoid all electrostatic charges – see instruction
- The Equipment contains more than 15% of aluminium. It must be mounted in a such a manner as to eliminate the risk of sparks caused by friction or impact.
- The Intrinsic Safety Parameters must not exceed the values indicated in the control drawing, F5A-001C.



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Equipment (continued):

F5 Switch box ATEX IEC Model code

AA = Product Type

F5 Switch box type F5

BB = Certificate

IA intrinsically safe ATEX (Control drawing F5A-001C)
IE intrinsically safe IEC (Control drawing F5A-001C)
IB intrinsically safe InMetro (reserved for future use)
IN Intrinsically safe CCC (China)

C = Electrical Connection

G 2 x M20 x 1.5
N 2 x NPT

D = Surface Treatment

U Epoxy, ED
M Tufram

EEE = Switches

XXX No Switches
MEC 2 x SPDT Switches
NAM 2 x NAMUR sensors
PXY 2 x SPDT proximity Switches

FFF = Feedback

XXX No Feedback
POT Potentiometer, 5 kOhms
P1K Potentiometer, 1 kOhms
P18 Potentiometer, 180 deg
420 4-20 transmitter
T18 4-20 transmitter, 180 deg
T27 4-20 transmitter, 270 deg

GG = Spindle

00 For installation on P5/EP5
23 Rotary, Namur, VDE 3845
xx More spindles available

HHH = Front Cover (3 positions; different options available)

I = Function

D Direct
R Reverse

J = Indicator

A Indicator
B No Indicator
H Dome Style

K = Temperature

Z Nitrile, NBR -40°C to + 85°C
Q Silicon, Q -40°C to + 85°C



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Additional information:

Product	Manufacturer	Type	Certificate no.
Capteur inductif Inductive sensor	PEPPERL+FUCHS	NJ2-V3-N	PTB 00 ATEX 2032 X + 7 suppléments

These products are declared compliant by their manufacturers and their conformity does not fall under the responsibility of DNV.

Intrinsic Safety Parameters:

Transmitter Terminals 8-9 :

Ui : 28 V; li : 100 mA; Pi : 700mW; Li : 1 µH; Ci : 68 nF

Potentiometer Terminals 7-8-9 :

Ui : 16.8 V; li : 50 mA; Pi : 210mW; Li : 1 µH; Ci : 1 nF

Terminals 1-2-3 :

Ui : 28 V; li : 45 mA; Pi : 315 mW; Li : negligible low; Ci : negligible low

Terminals 4-5-6 :

Ui : 28 V; li : 45 mA; Pi : 315 mW; Li : negligible low; Ci : negligible low

NAM switch terminal 1-2 and 4-5:

Ui : 16 V; li : 52 mA; Pi : 169 mW; Li : 50 µH; Ci : 40 nF

Ambient temperature: -40°C ... +80°C

Routine tests: None.

Warning marking:

WARNING – POTENTIAL ELECTROSTATIC CHARGING, SEE INSTRUCTIONS