



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 21.0005X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2022-09-21
Applicant: **PMV AUTOMATION AB**
Korta Gatan 9
SE-17154 SOLNA
Sweden
Equipment: **Flameproof Feedback unit**
Optional accessory:
Type of Protection: **Ex db**
Marking: Ex db IIB+H₂ T6 or T5 Gb.
T6 for Tamb: -20°C ... +50°C, T5 for Tamb: -20°C ... +60°C

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**
Korta Gatan 9
SE-17154 SOLNA
Sweden

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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/ExTR21.0004/00](#)

Quality Assessment Report:

[NO/NEM/QAR08.0008/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment mounted on top of a valve positioner gives information about positioning via mechanical or inductive switches and / or rotating angle via potentiometer or current transmitter. The enclosure has two threaded entries of sizes ½ -14 NPT or M20 x 1,5. Certified cable glands need to be used.

Type designation:

F5Ex Series

Electrical Data

Maximum voltage: 28 V DC

Current: 0 – 20 mA

Maximum power: 1 W

Ambient temperature:

T6 for Tamb: -20°C ... +50°C

T5 for Tamb: -20°C ... +60°C

Routine tests

None.

Warning marking:

WARNING – DO NOT OPEN WHEN ENERGIZED

TORQUE COVER BOLTS TO: 5.2lbf*ft/7Nm

WARNING – POTENTIAL ELECTROSTATIC CHARGING

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) The flameproof joints are not intended to be repaired
- 2) The special fasteners of the cover on the body are composed of 8 screws stainless steel 6H M6x16.
- 3) The minimum property class of screws must be A2-70. The screws must be replaced with identical ones.
- 4) M6 screws used for mounting F5Ex unit must not be able to enter the threaded holes more than 7mm, see instruction.
- 5) HAZARD – TO AVOID ELECTROSTATIC HAZARD, CLEAN THE DEVICE WITH A WET CLOTH – SEE INSTRUCTIONS



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Equipment (continued):

F5 Switch box ATEX IEC Model Code

AA = Product Type

F5

BB = Certificate

EX Explosion proof, ATEX, CSA, FM
EA Explosion proof ATEX
EB Explosion proof Inmetro
EE Explosion proof IECEX
EN Explosion proof CCC (China)

C = Cable Entry

G 2 x M20 x 1.5
N 1/2" 14 NPT x 2

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 adapter two positions alphanumeric

** multiple options

HHH = Front Cover (3 positions any character)

*** different prints available

I = Function

D Direct
R Reverse

J = Indicator

A Indicator
B No Indicator
H Dome Style

K = Temperature

Z Nitrile, NBR -40°C .. + 85°C