

[1]

EU-TYPE EXAMINATION CERTIFICATE

- [2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- [3] EU-Type Examination Certificate Number: DNV 20 ATEX 42348X
 [4] Product: Monitoring Unit (Feedback unit)
 [5] Manufacturer: PMV Automation AB
 [6] Address: Korta Gatan 9 S-17514 Solna Sweden
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2018 and EN 60079-11:2012

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

Ex ia IIC T4 Ga -40°C ≤Ta≤+80°C II 1 G



Date of issue: 2022-10-07



Bjørn Spongsveen For DNV Product Assurance AS The Certificate has been digitally signed. See www.dnv.com/digitalsignatures for info

Issue 0



[13]

DNV 20 ATEX 42348X [14] **EU-Type Examination Certificate No:** Issue 0 [15] **Description of Product** 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 PEPPERL & FUCHS, type NJ2-V3-N Type designation F5IA and F5IE 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) IΕ 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 Ν 2 x 1/2" NPT **D** = Surface Treatment U Epoxy, ED Μ Tufram EEE = Switches No Switches XXX 2 x SPDT Switches MEC 2 x NAMUR sensors NAM PXY 2 xSPDT 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 4-20 transmitter, 270 deg T27 **GG** = Spindle For installation on P5/EP5 00 23 Rotary, Namur, VDE 3845 More spindles available xх HHH = Front Cover (3 positions; different options available) I = Function D Direct R Reverse

Schedule

- 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

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

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

Intrinsic safety parameters:	Ui	li	Pi	Li	Ci
Transmitter Terminals	28 V	100 mA	700mW	1 μH	68 nF
Potentiometer Terminals 7-8-9	16.8 V	50 mA	: 210mW	1 μH	1 nF
Terminals 1-2-3	28 V	45 mA	315mW	negligible low	negligible low
Terminals 4-5-6	28 V	45 mA	315mW	negligible low	negligible low
NAM switch terminal 1-2 and 4-5	16 V	52 mA	169mW	50 µH;	40 nF

Ambient temperature:

-40°C ... +80°C

Routine tests

None.

Warning marking: WARNING – POTENTIAL ELECTROSTATIC CHARGING, SEE INSTRUCTIONS

[16] **Report No**.: 176867-42348

- 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 is not tested by the clause 7.4.2 of EN 60079-0 :2012. All precautions shall be taken 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.
- Type 'IA' and 'IE' Intrinsic Safety Parameters must not exceed the values indicated in the control drawing, F5A-001C
- HAZARD TO AVOID ELECTROSTATIC HAZARD, CLEAN THE DEVICE WITH A WET CLOTH –
 SEE INSTRUCTIONS

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9



[19] Drawings and documents

Mechanical and other F5F Mandatory IOM Content Required manual content 4 2022-07-08 F5-As001C Assembly drawing 0 2022-04-22 F5-As001Cm Material drawing 0 2022-04-22 F5A-8001C-A Marking plate for ATEX cert 0 2022-07-07 IS-General-Thick film lacquer tisk 0 2012-09-13 F5IS ATEX IEC model code ATEX IEC Model code 0 2018-12-18 F5A-005C Coating instructions 0 2018-12-18 F5A-001C Control drawing 1 2022-07-07 IS-Genotical Switches 3 1999-01-08 F5C9401b 4-20mA Position Transmitter 2 1999-01-08 F5C9502b Mechanical Switches + 4-20mA 3 1999-01-08 F5C9502b Mechanical Switches + Potentiometer 3 1999-01-08 F5C9505c Inductive Sensors + 4-20mA 4 1999-01-08 F5C9505c Inductive Sensors + 4-20mA 3 1999-01-08 F5C9505c 1990-01-08 F5C9505c 1990-01-08 F5C9505c 1990-01-08 F5C9505c 1990-01-08 F5C9505c 1999-01-08	Number	Title	Rev.	Date
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F5C9509b Reed Switches 2 1999-01-08 F5C9510b Reed Switches + 4-20mA 2 1999-01-08 F5C9511b Reed Switches + Potentiometer 2 1999-01-08 Wiring and Layout	F5C9508b	4-20mA	3	1999-01-08
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Wiring and Layout 4-20mA position transmitter 3 1999-01-08 F5-2-4-9501 F5 Feedback unit mechanical switch 3 1995-02-22 F5-2-4-9502 F5 Feedback unit mechanical switch 1995-01-12 F5-2-4-9502 F5 Feedback unit mechanical switch 1995-01-12 F5-2-4-9503 F5 Feedback unit mechanical switch 1995-01-12 F5-2-4-9503 F5 Feedback unit mechanical switch 1995-02-03 F5-2-4-9504 F5 Feedback unit Inductive sensor 1995-02-03 F5-2-4-9504 F5 Feedback unit Inductive sensor 1995-02-22 F5-2-4-9505 F5 Feedback unit Inductive sensor 1995-01-12 F5-2-4-9506 F5 Feedback unit Inductive sensor 1995-01-12 F5-2-4-9506 F5 Feedback unit Inductive sensor 1995-01-12 F5-2-4-9507 F5 Feedback unit potentiometer 1995-01-12 F5-2-4-9508 F5 Feedback unit apout F5-Module Board PMV 1995-01-13 Component Layout F5 Module Board PMV 1999-01-08 1999-01-08 F5-2-4-9510 94001813 2 1999-01-08 F5-2-4-9511 Layout component F5-module Board PMV	F5C9511b	Reed Switches + Potentiometer	2	1999-01-08
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F5 Feedback unit Inductive sensor 1995-02-22 F5-2-4-9505 F5 Feedback unit Inductive sensor 1995-01-12 F5-2-4-9506 F5 Feedback unit potentiometer 1995-01-12 F5-2-4-9507 F5 Feedback unit potentiometer 1995-01-12 F5-2-4-9508 F5 Feedback unit 4-20mA F5-420 4 1995-01-13 F5-2-4-9508 F5 Feedback unit 4-20mA F5-420 4 1995-01-13 Component Layout F5 Module Board PMV 1995-01-08 2 F5-2-4-9510 94002431 2 1 F5-2-4-9511 94001813 2 1 F5-2-4-9512 Quot module back side F5-Module Board PMV 1999-01-08 F5-2-4-9513 94001813 2 1 F5-2-4-9513 94001431 1 1 F5-2-4-9514 Layout component F5-module PMV 1999-05-10 1 F5-2-4-9513 94001431 1 1 1 F5-2-4-9514 Layout component F5-module board PMV 1999-05-10 1 F5-2-4-9515 94001431 1 1 1	F5-2-4-9504	F5-SW/ NAM	2	
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F5-2-4-9508 F5 Feedback unit 4-20mA F5-420 4 1995-01-13 Component Layout F5 Module Board PMV 1995-05-10 1995-05-10 F5-2-4-9510 94002431 2 1999-01-08 F5-2-4-9511 94001813 2 1999-01-08 F5-2-4-9512 94001813 2 1999-01-08 F5-2-4-9512 94001813 2 1999-01-08 F5-2-4-9513 94002431 1 1999-05-10 F5-2-4-9514 94002431 1 1999-05-10 F5-2-4-9514 94001431 2 1999-05-10 F5-2-4-9515 94001431 2 1999-05-10	F5-2-4-9507	F5POT	3	
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F5-2-4-9510 94002431 2 Component layout F5-Module Board PMV 1999-01-08 94001813 2 Layout module back side F5-Module Board 1999-01-08 94001813 2 Layout module back side F5-Module Board 1999-01-08 F5-2-4-9512 94001813 2 Layout component F5-module PMV 1999-05-10 F5-2-4-9513 94002431 1 Layout solder side Fr -Main board PMV 1999-05-10 F5-2-4-9514 94001431 2 Layout component F5-module board PMV 1999-01-08 F5-2-4-9515 94001813 2	55.0.4.0540	Component Layout F5 Module Board PMV	•	1995-05-10
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Eayour component F5-module board PMV 1999-01-08	FJ-Z-4-9014	34001431	2	1000 01 09
	F5-2-4-9515		2	1999-01-00



[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue -certificate moved from LCI 03 ATEX	2022-10-07	176867- 42348
	6103X		

END OF CERTIFICATE

