[1]

# EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 25 ATEX 29564X** **Issue 0**

[4] Product: **UltraSwitch Position Indicator**

[5] Manufacturer: **PMV Automation AB**

[6] Address: **Korta Gatan 9**
**SE-17154 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 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 IEC 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” listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the technical design 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 II 1 G Ex ia IIC T4/T5/T6 Ga**

Date of issue:
2026-06-12

NORSK AKKREDITERING
PROD 021

Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.

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[13] **Schedule**

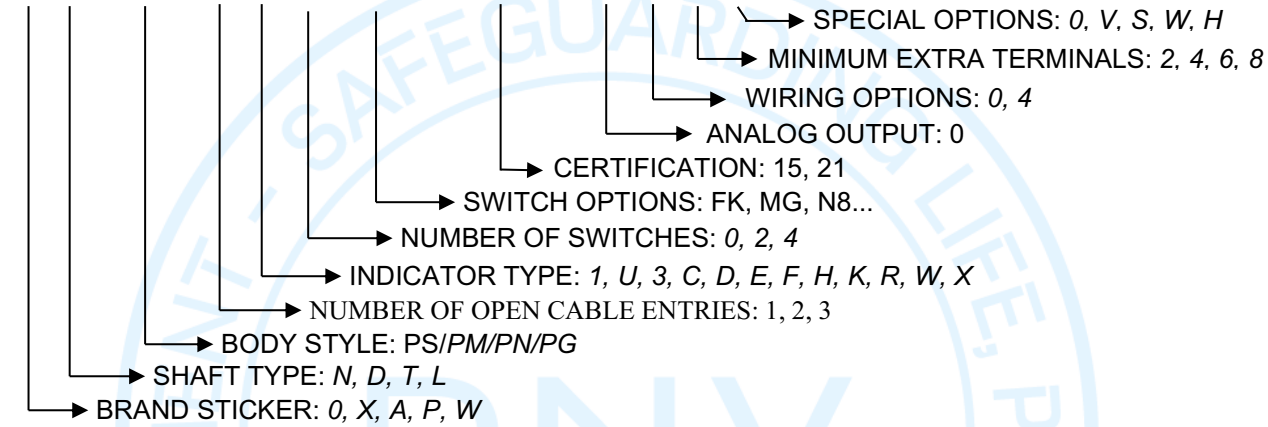
[14] **EU-Type Examination Certificate No:** DNV 25 ATEX 29564X Issue 0

[15] **Description of Product**

The UltraSwitch is a position indicator provided with several limited switch options. The function of these rotary limit switches is to provide visual local and remote position for automated valves. The whole assembly is contained in a plastic enclosure with three threaded holes for entry devices.

**Type Designation**

| A | B | C | C | D | E | F | G | G | | H | H | | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | N | P | S | 2 | U | 2 | N | 8 | - | 1 | 5 | - | 0 | 0 | 2 | 0 |




**Brand sticker**

| | |
|---|---|
| 0 | No sticker |
| X | Automax |
| A | Accord |
| P | PMV |
| W | Worcester |

**SHAFT TYPE**

| | |
|---|---|
| N | Namur VDI/VDE 3845 |
| D | Double D 1/4" |
| T | Turnex spindle (for NAF) |
| L | D type with thread/nut for linear actuators |

**BODY STYLE (connection and cable entry)**

| | |
|---|---|
| PS | Resin Housing 1/2" NPT |
| PM | Resin Housing M20x1,5 |
| PN | Resin Housing 3/4" NPT |
| PG | Resin Housing M25x1,5 |

**Number of open cable entries**

| | |
|---|---|
| 1 | 1 conduit |
| 2 | 2 conduits |
| 3 | 3 conduits |

**INDICATOR TYPE**

| | |
|---|---|
| 1 | Flat cover without indicator |
| U | Standard Ultradome Red/Green (red = closed / green = open) |

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| | |
|---|---|
| 3 | 4 window Ultradome |
| C | 90 deg 3-way Ultradome |
| D | 180 deg 3-way Ultradome |
| E | 180 deg 3-way Centre-blocked Ultradome |
| F | 120 deg Thru/Divert Ultradome |
| H | Black/Yellow Ultradome |
| K | Ektar Ultradome (red/green) |
| R | Reverse Ultradome (red = Open / green = closed) |
| W | White/Blue Ultradome |
| X | 180 deg 3-way Ultradome White/Blue |

**NUMBER OF SWITCH ELEMENTS**

0 - 0 Switch Elements
2 - 2 Switch Elements
4 - 4 Switch Elements

**SWITCH ELEMENT TYPE**

FK

| | |
|---|---|
| 00 | No switches (empty housing) |
| FK | NS5002 - IS-2002-N/OLED/1D/1G |
| M1 | SPDT Mechanical 15A @ 250VAC; 0,5A@125VDC SIL3 Capable (v7-1c13d8-201) |
| MG | SPDT Mechanical - Gold Contacts SIL3 Capable (v7-1d19d8-201) |
| N2 | NJ2-12GK-N |
| N3 | SJ3,5-S1N |
| N4 | NJ2-12GK-SN |
| N8 | NJ2-V3-N |
| R1 | NBB3-V3-Z4-3G-3D |
| NB | NJ2-12GM-N |
| NC | NJ4-12GM-N |
| NE | NCB2-12GM35-N0 |
| NF | NCN4-12GM35-N0 |
| NG | NJ5-11-N-G |
| NH | NCB4-12GM40-N0 |
| NL | NCB2-V3-N0 |
| NM | NJ2-11-SN-G |
| NP | SJ3.5-N |
| NQ | NJ4-12GK-N |
| NV | NJ2-11-N-G |
| NW | SJ3,5-SN |
| NY | NJ4-12GK-SN |
| P4 | Aleph proximity (PS-6132) |
| P5 | Hamlin Proximity (59150-3-S-02-A) |
| PE | Sabre™IV SPDT Proximity (PRS-30) |
| PT | Phazer BRS™IV SPST Proximity (PRS-10/10m) |

**CERTIFICATIONS**

| | |
|---|---|
| 15 | ATEX - II 1 G Ex ia IIC T4-T6 Ga |
| 21 | IECEx -Ex ia IIC T4-T6 G |

**ANALOG OUTPUT OPTIONS**

0 - None

**WIRING OPTIONS**

0 - Standard
4 - Weidmüller terminals special AKZ 2,5

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**MINIMUM EXTRA TERMINALS**

2 2 (Standard)
4 4 (Optional, not possible for all switch options)
6 6 (Optional, not possible for all switch options)
8 8 (Optional, not possible for all switch options)

**SPECIAL OPTIONS**

0 - None
V - Viton O-rings
S - Hex head cover screws
W - Viton O-rings, Hex head cover screws
H - High ramp Cam (M1 and MG switches only)

**Alternative D PS/PM switchbox Model code**

**A= Brand sticker**
**B= Rating selection**
N *North American Standards, Special Marker Strip 3/4*
C *Europe Standards, 2 cable Glands, Special Marker*
**C= Housing selection**
P Engineered resin
**D= Indicator option**
1 *No indicator – flat top*
3-6 *Ultra dome*
**E= Language**
**F= Switch type**
L Phazer BRS™ GenIV
H Phazer™ GenIV
S P+F NJ2-V3-N
M P+F NBB3-V3-Z4-3G-3D
P Phazer™ GenII
**G= Area selection**
1 Standard
2 Intrinsically safe
**H= Analog output**
N NAMUR configuration, NAMUR shaft
STD Non-NAMUR configuration, “Standard shaft”
**I= Bracket and fastener**

| A | B | C | D | E | F | G | H | H | H | I | I | I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

**Degrees of protection (IP Code)**

IP 66, according to EN 60529.

**Ambient temperature:**

| Standard model code pos. GG | | | | | | | | | | | | | | | Standard model code pos. HH | 15 | 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Model code alternative "D" pos. F | | | | | | | | | | | | | | model code alternative "D" pos. G | 2 | 2 |
| | | Manufacturer | Note | SWITCH | Type | Ci nF | Li µH | Ui V | Ii mA | Pi mW | min. $T_{amb}$ °C | T4 °C | T5 °C | T6 °C | | ATEX ia | IECEx ia |
| FK | - | IFM | 1 | NS5002 - IS-2002-N/OLED/1D/2G | N | 110 | 135 | 15 | 50 | 120 | -20 | 80 | 80 | 70 | | x | x |
| M1 | - | Honeywell | | SPDT Mechanical 15A @ 250VAC; 0,5A@125VDC SIL3 Capable (v7-1c13d8-201) | M | 1 | 1 | 28 | 45 | 120 | -40 | 78 | 60 | 45 | | x | x |
| MG | - | Honeywell | | SPDT Mechanical - Gold Contacts SIL3 Capable (v7-1d19d8-201) | M | 1 | 1 | 28 | 45 | 31.5 | -40 | 78 | 60 | 45 | | x | x |
| N2 | - | P+F | 2 | NJ2-12GK-N | N | 45 | 50 | 16 | 52 | 169 | -25 | 80 | 66 | 51 | | x | x |
| N3 | - | P+F | 3 | SJ3,5-S1N | N | 30 | 100 | 16 | 52 | 169 | -25 | 89 | 60 | 45 | | x | x |

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| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N4 | - | P+F | 3 | NJ2-12GK-SN | N | 50 | 150 | 16 | 52 | 169 | -40 | 80 | 66 | 51 | x | x |
| N8 | S | P+F | 4 | NJ2-V3-N | N | 40 | 50 | 16 | 52 | 169 | -25 | 89 | 60 | 45 | x | x |
| R1 | M | P+F | | NBB3-V3-Z4-3G-3D | I | 40 | 50 | 30 | 50 | - | -25 | 60 | - | 50 | x | x |
| NB | - | P+F | 2 | NJ2-12GM-N | N | 30 | 50 | 16 | 52 | 169 | -25 | 81 | 77 | 62 | x | x |
| NC | - | P+F | 2 | NJ4-12GM-N | N | 45 | 50 | 16 | 52 | 169 | -25 | 67 | 64 | 49 | x | x |
| NE | - | P+F | 2 | NCB2-12GM35-N0 | N | 90 | 100 | 16 | 52 | 169 | -25 | 81 | 77 | 62 | x | x |
| NF | - | P+F | 2 | NCN4-12GM35-N0 | N | 95 | 100 | 16 | 52 | 169 | -25 | 81 | 77 | 62 | x | x |
| NG | - | P+F | 2 | NJ5-11-N-G | N | 45 | 50 | 16 | 52 | 169 | -25 | 82 | 57 | 42 | x | x |
| NH | - | P+F | 2 | NCB4-12GM40-N0 | N | 120 | 50 | 16 | 52 | 169 | -25 | 74 | 66 | 51 | x | x |
| NL | - | P+F | 4 | NCB2-V3-N0 | N | 100 | 100 | 16 | 52 | 169 | -25 | 89 | 60 | 45 | x | x |
| NM | - | P+F | 3 | NJ2-11-SN-G | N | 50 | 150 | 16 | 52 | 169 | -40 | 81 | 77 | 62 | x | x |
| NP | - | P+F | 5 | SJ3.5-N | N | 50 | 250 | 16 | 52 | 169 | -25 | 89 | 60 | 45 | x | x |
| NQ | - | P+F | 2 | NJ4-12GK-N | N | 45 | 50 | 16 | 52 | 169 | -25 | 80 | 66 | 51 | x | x |
| NV | - | P+F | 2 | NJ2-11-N-G | N | 30 | 50 | 16 | 52 | 169 | -25 | 81 | 77 | 62 | x | x |
| NW | | P+F | 3 | SJ3,5-SN | N | 30 | 100 | 16 | 52 | 169 | -50 | 89 | 60 | 45 | x | x |
| NY | - | P+F | 3 | NJ4-12GK-SN | N | 70 | 150 | 16 | 52 | 169 | -50 | 80 | 66 | 51 | x | x |
| P4 | - | Aleph | | Aleph proximity (PS-6132) | P | 1 | 1 | 28 | 45 | 31.5 | - | 40 | - | - | x | x |
| P5 | - | Hamlin | | Hamlin Proximity (59150-3-S-02-A) | P | 1 | 1 | 28 | 45 | 31.5 | -40 | 60 | - | - | x | x |
| PE | - | PMV | | Sabre™IV SPDT Proximity (PRS-30) | P | 1 | 1 | 28 | 45 | 31.5 | -40 | 80 | 70 | 55 | x | x |
| PT | L | PMV | 6 | Phazer BRS™IV SPST Proximity (PRS-10/10m) | P | 1 | 1 | 28 | 45 | 31.5 | -40 | 80 | 85 | 75 | x | x |

**Routine tests**
N/A

[16] **Report No**.: 2025-1146
**Project No.:** PRJN-1069396

[17] **Specific Condition(s) of Use**

1. The Rotary Limit Switch Box is marked with the following warning marking: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS".

2. The total electrical ratings must not exceed the values indicated in this Schedule.

3. For nomenclature breakdown please see the installation instructions.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

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[19] **Drawings and documents**

| Number | Title | Rev. | Date |
|---|---|---|---|
| RA-066C | Housing drawing | 1 | 2023-10-13 |
| RA-065C | Dome cover drawing | 1 | 2023-10-13 |
| RA-065AC | Flat cover drawing | 1 | 2023-10-13 |
| RA-068C | Gasket | 1 | 2023-10-13 |
| RA-As1SCmb | Assembly drawing | 1 | 2025-02-18 |
| RA-48C-ia | *Marking label ATEX, IECEx IS | 3 | 2026-03-16 |
| RA-2 | *Control drawing ATEX, IECEx IS | 10 | 2026-05-06 |
| PS-PM ia Model code | *Model code | 4 | 2026-06-01 |
| PSPM-ia-IOM_mandatory_content | *IOM mandatory content | 2 | 2026-05-19 |
| PSPM-ia-switch_approvals | Switch approvals | 0 | 2025-02-13 |
| PRS-As410 | *PMV switch PRS | 1 | 2026-05-06 |

[20] **Certificate History**

| Issue | Description | Issue date | Report no. |
|---|---|---|---|
| 0 | 1. Replace Nemko 11ATEX1065X.<br>2. Add NEW mechanical switch M1 SPDT Silver to M1<br>3. Correct the PT ambient temperature<br>4. Update to EN IEC 60079-0:2018 and EN 60079-11:2012 according to IECEx DNV 25.0003X.<br>5. Switches: F9, FE, FJ, R5, NR, NS, NT, PP are removed<br>6. Replace current reed switches PE and PT with new style switches PE and PT, which are already certified in IECEx DNV 25.0003X issue 0.<br>7. The model code has been updated accordingly to reflect the changes described above. | 2026-06-12 | 2025-1146 |

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

END OF CERTIFICATE

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