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 25.0003X**

Certificate history:
Issue 0 (2025-04-08)

Status: **Current**

Issue No: 1

Date of Issue: 2026-06-12

Applicant: **PMV AUTOMATION AB**
Korta Gatan 9
SE-17154 SOLNA
Sweden

Equipment: **UltraSwitch Position Indicator**

Optional accessory:

Type of Protection: **Intrinsic safety**

Marking: Ex ia IIC T4/T5/T6 Ga

IP66

Approved for issue on behalf of the IECEx Certification Body: **Asle Kaastad**

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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Certificate No.: **IECEx DNV 25.0003X**

Date of issue: 2026-06-12 Issue No: 1

Manufacturer: **PMV AUTOMATION AB**
Korta Gatan 9
SE-17154 SOLNA
Sweden

Manufacturing locations:

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 Reports:

NO/DNV/ExTR25.0005/00 NO/DNV/ExTR25.0005/01

Quality Assessment Report:

NO/NEM/QAR08.0008/15

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The UltraSwitch, model xxPxxxxxx-15-xxxx and xxPxxxxxx-21-xxxx is a position indicator provided with several limit 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.

Safety electrical data:
Maximum input voltage. Ui: 16V
Maximum input current. Ii: 52mA
Maximum input power. Pi: 169mW
Safety electrical data: See enclosed Annex to certificate: IECEx DNV 25.0003X
Maximum input capacitance Ci: See enclosed Annex to certificate: IECEx DNV 25.0003X
Maximum input inductance Li: See enclosed Annex to certificate: IECEx DNV 25.0003X

For switch option type, T-class and T-ambient, please see enclosed Annex to certificate: IECEx DNV 25.0003X

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. The UltraSwitch Position Indicator 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.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Add Mechanical switch M1 SPDT Silver to PSPM, M1 SPDT Mechanical 15A @ 250VAC ; 0,5A@125VDC SIL3 Capable MG SPDT
2. Corrected the temperature for PT reed switch.
3. Switches: F9, FE, FJ, R5, NR, NS, NT, PP are removed
4. Changed units mark to ‘xxPxxxxxx-15-xxxx and xxPxxxxxx-21-xxxx’
5. The model code has been updated accordingly to reflect the changes described above.

Annex:

Annex to IECEx DNV 25.0003X_1.pdf

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Annex to certificate: IECEx DNV 25.0003X issue 1

T-class and T-ambient based on IECEx certificates.
Note: concerned certificates with their respective indexs, as indicated in the table below
1 IECEX BVS 06.0003X
2 IECEx PTB 11.0037X
3 IECEx PTB 11.0092X
4 IECEx PTB 11.0021X
5 IECEx PTB 11.0091X
6 IECEx ExTR NO/DNV/Ex TR23.0055/00

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
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

The maximum permissible ambient temperature for use in temperature total electrical ratings for electrical switches depend on rating of the switch type mounted and shall not exceed the values (incl. max. input voltage, currect and power) provided in control drawing, **RA-2_rev10_260505_PJA.PDF**

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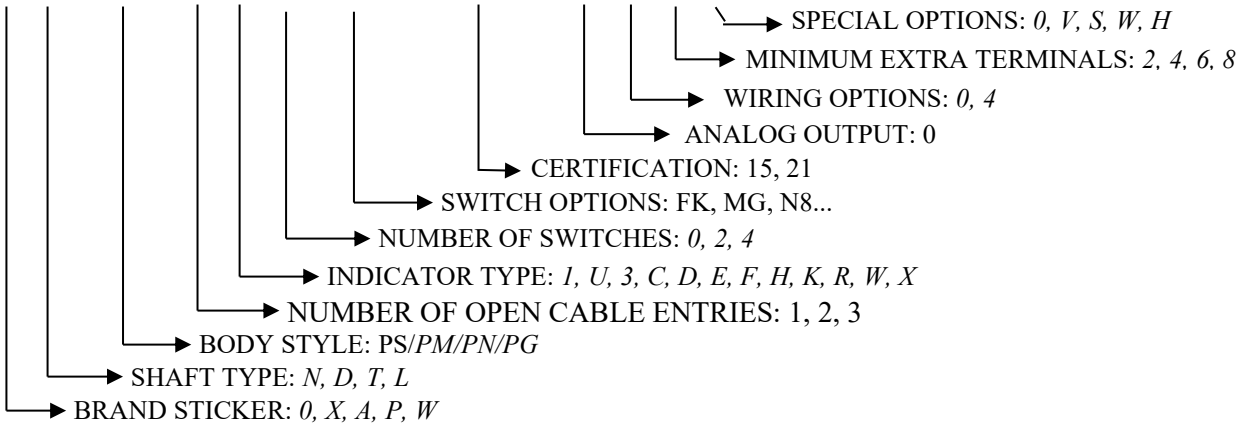
Type Designation

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 Ga

ANALOG OUTPUT OPTIONS

0 - None

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

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