[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 24 ATEX 76931X** **Issue 0**

[4] Product: **Switchbox**

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

[6] Address: **Korta Gatan 9**
171 54 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 IEC 60079-0: 2018, EN IEC 60079-7: 2015/+A1:2018 and EN 60079-18: 2015

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 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:

II 2 G **Ex eb mb IIC T5 (T6) Gb**
(See descritpion of product for ambient temperature)

Date of issue:
2024-06-19

NORSK AKKREDITERING
PROD 021

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

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[13] **Schedule**

[14] **EU-Type Examination Certificate No:** **DNV 24 ATEX 76931X** Issue 0

[15] **Description of Product**

The Switchbox PMV PS/PM is a position indicator provided with 2 Ex mb limited switch options and a certified 'Ex e' terminal. 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.
Only Ex certified cable glands and with threaded entry size specified in the type designation nomenclature breakdown below shall be used.
The Switchbox is protected by external fuse of maximum 2A, with a breaking capacity of 1500A.

Type designation and electrical Data

PMV Model code	Alternate model code	Rating	T5	T6
xxxxxxxPP-22-xxxx	xCPxxH1x..	U: 60VDC/100VA I:2A	-40°C ≤ Ta ≤ +62°C	-40°C ≤ Ta ≤ +47°C
xxxxxxxPT-22-xxxx	xCPxxL1x..	U: 24VDC/12VA I:0.5A	-40°C ≤ Ta ≤ +80°C	-40 °C ≤ Ta ≤ +75°C

PS/PM switchbox Model code

A= Brand sticker
B= Shaft *(specifies shaft interface outside the switch box)*
CC= Connections (cable entry)
- PS Resin Housing 1/2" NPT
- PM Resin Housing M20x1,5
- PN Resin Housing 3/4" NPT
- PG Resin Housing M25x1,5

D= Number of open cable entries *(1 , 2 or 3)*
E= Indicator option *(Two major options : Flat cover and Dome indicator)*
F= Qty of switches
- 0 No switches
- 1 One switch
- 2 Two switches

GG= Switch options *(only relevant switch options included)*
- PP PRS-20m - Phazer SPDT Proximity
- PT PRS-10m Phazer BRS SPST Proximity

HH= Certificate *(only relevant codes included)*
- 22 ATEX II 2 G Ex e mb IIC T6

I= Analog output *(only relevant analog output options included)*
- 0 None

J= Wiring options
- 4 Weidmüller terminals AKZ 2,5

K= Minimum extra terminal *(0-16 extra terminals)*
L= Special options
- 0 None

1	2	3	4	5	6	7	8	9		10	11		12	13	14	15
A	B	C	C	D	E	F	G	G	-	H	H	-	I	J	K	L

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Alternative D PS/PM model code

PS switchbox Model code

A= Brand sticker

B= Rating Selection

C Europe Standards, NPT cable entries

C= Housing selection

P resin

D= Indicator option

1 No indicator - Flat top

2-6 Ultra dome

E= Language

F= Switch type

H PRS-20m - Phazer (2 switches)

L PRS-10m Phazer BRS (2 switches)

G= Area selection

1 Non insendive or ATEX Ex mb

H= Mounting selection (1 to 3 positions to indicate mounting brackets)

Example

1	2	3	4	5	6	7	8	9	10
A	B	C	D	E	F	G	H	H	H

Degrees of protection (IP Code)
IP 66, according to IEC 60529.

[16] **Report No**.: 712556

[17] **Specific Conditions of Use**

1. The PRS-10m switch circuit must be protected by a maximum 0,5 A fuse, with braking capacity of 1500A.
2. The PRS-20m switch circuit must be protected by a maximum 2 A fuse, with braking capacity of 1500A.
3. The Rotary Limit Switch Box is marked with the following warning marking:
   "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS".
   A capacitance of approx. 5pF can build up on the stainless-steel marking label.
4. The equipment must be placed in an area where it is low risk of mechanical danger.
5. 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
PRS-TFC-mbC	PS/PM Ex e mb Scheduled files list	1	2024-06-07

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2024-06-19	712556

END OF CERTIFICATE

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