





## [1] EC-TYPE EXAMINATION CERTIFICATE

[2] Component intended for use on/in equipment or protected system intended for use in potentially explosive atmospheres

Directive 94/9/EC

[3] EC-Type Examination Certificate Number: Nemko 12ATEX 1079X Issue 2

[4] Equipment or Protective System: Switchbox

[5] Applicant and Manufacturer: Palmstierna International AB

[6] Address: Korta Gatan 9

SE-171 54

SOLNA, SWEDEN

- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 244378

- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
  - CENELEC EN 60079-0:2009, CENELEC EN 60079-18:2009 and CENELEC EN 60079-7:2007
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- [12] The marking of the equipment or protective system shall include the following:

 $\langle \epsilon_{x} \rangle$ 

II 2G

Ex e mb IIC T6 Gb

-40 °C  $\leq Ta \leq +60$  °C

Ex e mb IIC T5 Gb

-40 °C  $\leq Ta \leq +80$  °C

Oslo, 2013-10-21

Bjørn Spongsveen Certification Manager, Ex-products

This certificate may only be reproduced in its entirety and without any change, schedule included.





Date: 2013-10-21

## [13] Schedule

#### [14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 12ATEX 1079X Issue 2

# [15] **Description of Component**

The Switchbox PMV PS/PM is a position indicator provided with 2 or 4 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 shall be used.

The Switchbox is protected by external fuse of maximum 3A, with a breaking capacity of 1500A.

Ambient temperature ranges:  $-40 \, ^{\circ}\text{C} \le \text{Ta} \le +80 \, ^{\circ}\text{C}$ , Ex e mb IIC T5  $-40 \, ^{\circ}\text{C} \le \text{Ta} \le +60 \, ^{\circ}\text{C}$ , Ex e mb IIC T6

### [16] Type designation and safety electric data.

Modelcode PMV	Alernate modelcode	Rating
xxxxxxxPP-22- xx	xCPxxK1x	U: 60VDC/100VA I:3A
xxxxxxxPT-22-xxxx	xCPxxB1x	U: 24VDC/75VA I:3A

For model code breakdown please see the installation instructions.

#### **Ingress Protection Code**

IP 66, according to IEC 60529.

**Report No.** 244378 **Descriptive Documents** 

Title/Description	Rev.	Date	Name/Number	Sheets
PS/PM Ex e mb Scheduled files list	2	2013-09-03	PRS-TFC-mb	1

**Certificate History and Associated Nemko Reports** 

Issue /	Date	Report	Description	
Supplement				
0	2012.10.05	157200	Prime Certificate released	
1	2013.10.02	244378	New alternate model code.	
2	2013.10.16	244378	Writing error in certificate	

#### [17] Special Conditions for Safe Use

- The equipment shall be protected by a fuse of maximum 3A, with breaking capacity of 1500A.
- The Rotary Limit Switch Box is marked with the following warning marking: "WARNING POTENTIAL ELECTROSTATIC CHARGING HAZARD SEE INSTRUCTIONS".
- The equipment must be placed in an area where it is low risk of mechanical danger.
- For nomenclature breakdown please see the installation instructions.

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

See item 9

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