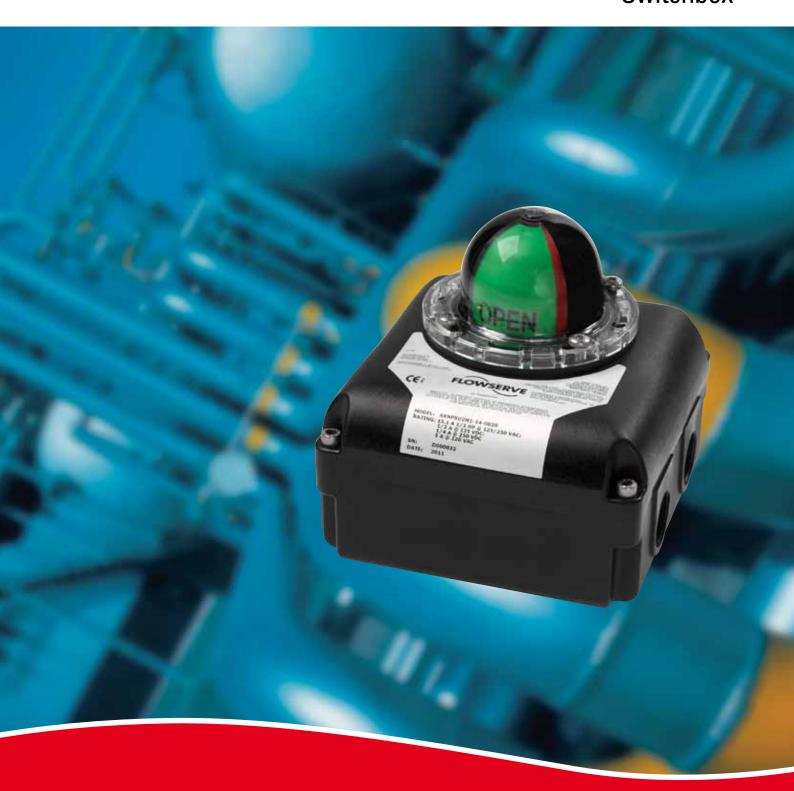


PMV PS/PM Series UltraSwitch™ Switchbox





Simple Reliable Rugged



The PS/PM Series UltraSwitch™ provides accurate & reliable position signaling in harsh corrosive environments. The engineered resin enclosure is provided with multiple switch options. An UltraDome™ indicator for visual position indication is standard with optional flat top for lower profile. It is designed to be directly and easily mounted onto actuators for both rotary and linear indication. It may also be used as a junction box for direct connection of solenoid valves.

With a housing of high strength and corrosion resistant fiberglass reinforced engineered resin, Nylon PA6/PA66, and pre-wired switches, it is both easy to install and withstands the toughest corrosive environments. Nylon PA6/PA66 is used in a number of different high strength, abrasion and impact resistant thermoplastic polyamide formulations. It offers excellent chemical resistance to common chemicals such as solvents, bases and salts. Designed to meet IP66/NEMA 4/4X standards, the PS/PM UltraSwitch™ is certified for both Intrinsically Safe and Non-Incendive hazardous locations.

Typical applications / Industries suitable for the PS/PM-Series UltraSwitch™ are:

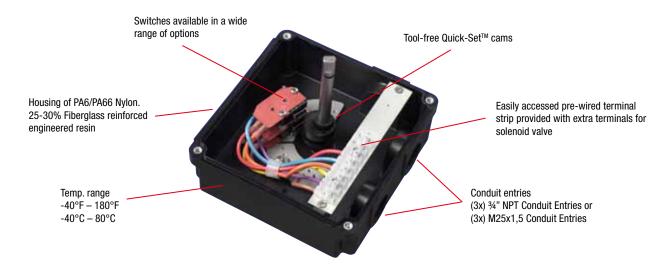
- · Chemical & Petrochemical
- Food & Beverage
- Municipal & Wastewater
- Pharmaceutical
- Power

Approvals

Hazardous Locations

IECEX NEM 11.0012X Ex ia IIC T4/T5/T6 • Nemko 11 ATEX1065X II 1G ⟨€x⟩ Ex ia IIC T4/T5/T6 • FM IS CI. 1 Div. 1 Grp.A,B,C,D T4 IP66/Nema 4/4x • FM NI CI. I, Div. 2 Gr. A,B,C,D T4/T5/T6 CI. II Div. 2 Gr. E,F,G

Features





Mounted on rotary actuator



Mounted on linear actuator

PS/PM-Series UltraSwitch™ Nomenclature

PM	PMV
N D	NAMUR VDI/VDE 3845 Double D 1/4"
PS PM	Engineered Resin Housing 3 x 3/4 NPT Engineered Resin Housing 3 x M25x1,5
1 U 3 C D E F H K R W X	Flat cover without indicator Standard UltraDome [™] red/green 4 Window UltraDome [™] 90 deg 3-way UltraDome [™] 180 deg 3-way UltraDome [™] 180 deg 3-way Centre-blocked UltraDome [™] 120 deg Thru/Divert UltraDome [™] Black/yellow UltraDome [™] Ektar UltraDome [™] (red/green) Reverse UltraDome [™] (red=open / green=closed) White/blue UltraDome [™] 180 deg 3-way UltraDome [™] (white/blue)
2 4	2 Switches 4 Switches
options	See page with switch options
14 15 21 27 28	General Purpose ATEX II 1G Ex ia IIC T4/T5/T6 IEC Ex ia IIC T4/T5/T6 FM IS Cl. 1 Div. 1 Grp. A,B,C,D; T4 FM NI Cl. I, Div. 2 Gr. A,B,C,D T4/T5/T6 Cl. II Div.2 Gr. E,F,G
0 T D A	None 4-20 mA transmitter 180 deg 4-20 mA transmitter 0-1 kOhm Potentiometer
0 1 2 3 4 H	None Brad Harrison Connectors - 3 pins Brad Harrison Connectors - 5 pins Brad Harrison Connectors - 7 pins Weidmüller Plintrad special AKZ 2,5 Heavy Duty Terminal Block
	N D PS PM 1 U 3 C D E F H K R W X 2 4 options 14 15 21 27 28 0 T D A 0 1 2 3 4

2 Open Terminal Locations (Standard) 4 Open Terminal Locations (2 SPST switches) 6 Open Terminal Locations (2 SPDT switches)

8 Open Terminal Locations (2 or 4 SPST switches)

Example

P M	N	PS	U	2	M 1	-	15	-	0	0	2	0	

None Viton O-rings

2

6

8

0

K. Special options

J. Minimum extra terminals

^{*} See switch option data

Switch Options Data Materials of construction



Switch Options

0.4.	A 1	On the booting		Land Councilla
Code	••••••		Manufacturer	Load Capacity
M1			Honeywell MicroSwitch	15A @ 125/250 VAC; 0,5A @ 125 VDC; 0,25A @ 250VDC; 5A @ 120VAC
MG	3	MG – SPDT Gold Mechanical	Honeywell MicroSwitch	1A @ 125 VAC; 50 mA @ 24 VDC
MA - 1		MA – 3-Position Control	Honeywell MicroSwitch	15A @ 125 VAC; 0,5A @ 125 VDC; 0,25A @ 250VDC; 5A @ 120VAC
M3	-	M3 – DPDT Mechanical	Cherry	15A @ 125/250 VAC
MB	-	MB – DPDT Mechanical	Licon	10A @ 125 VAC
MD	-	MD – 3-Pos. Control w/Indication (DA)	Licon	10A @ 125 VAC
MS	-	MS – 3-Pos. Control w/Indication (SR)	Licon	10A @ 125 VAC
P4	3	P4 – SPST Proximity	Aleph	0.35A @ 140 VAC; 0.25A @ 200VDC (50 W Max.)
P5	3	P5 – SPDT Proximity	Hamlin	0.25A @ 120 VAC; 0.25A @ 28 VDC (3 W Max.)
PE	3	PE – SPDT Sabre Proximity	Flowserve	1A @ 120 VAC; 2A @ 24 VDC
PP	3 PP – SPDT Phazer Proximity	Flowserve	3A @ 120 VAC; 2A @ 24 VDC	
PL	3 PL – SPDT Phazer w/LED 3 PT – SPST BRS Proximity		Flowserve	0.5A @ 120 VAC; 0.3A @ 24 VDC
PT			Flowserve	3A @ 120 VAC; 0.5 @ 24 VDC
PX	3	PX – SPST BRS w/LED	Flowserve	0.5A @ 120 VAC; 0.3A @ 24 VDC
N8	3	N8 – Solid State Proximity	PF NJ2 V3 N	NAMUR NC Sensor; 8 VDC
NP	3	NP – Solid State Proximity	PF SJ3.5-N	NAMUR Sensor Output; 5-25 VDC Supply
NQ	3	NQ - Solid State Proximity	PF NJ4-12GK-N	NAMUR NC Sensor; 8 VDC
NR	3	NR – Solid State Proximity	PF NJ4-12GM40-E1	PNP Sinking; 200 mA max. Current; 10-60 VDC
NS	3	NS – Solid State Proximity	PF NJ4-12GM40-E2	NPN Sourcing; 200 mA max. Current; 10-60 VDC
NT	-	NT – Solid State Proximity	PF NJ4-12GK40-E2	NPN Sourcing; 200 mA max. Current; 10-60 VDC
N9	3	N9 – Solid State Proximity	PF NBB3-V3-Z4	NPN Sourcing; 100 mA max. Current; 5-60 VDC

Data/Materials

Data	
Ingress protection	IP 66, according to EN 60529
Weight	1 kg / 2,2 lbs
Part	Material
Housing/Cover	PA6/PA66 Nylon. 25-30% Fiberglass filled engineered resin
Shaft	Stainless Steel
Cams/Splines	Nylon
Terminal Block	Nylon – Buchanan TBS Series
Internal Brackets	Stainless Steel or Plated Steel
All Internal Fasteners	Stainless Steel or Plated Steel
All External Fasteners	Stainless Steel
All Molded in Fasteners	Anodized Aluminum
UltraDome	Polycarbonate
Rotor	Polycarbonate









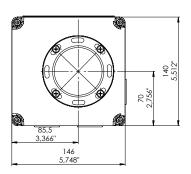


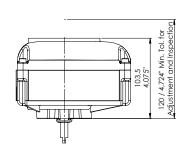


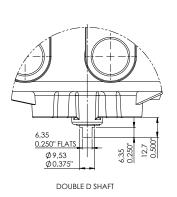
Cover Options

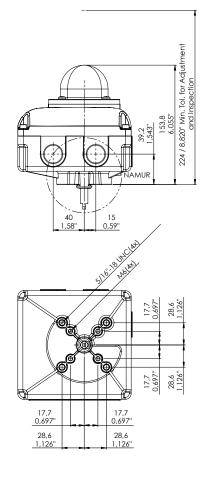


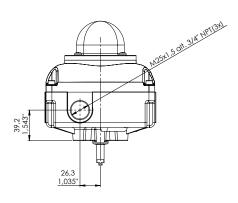
Dimensions PS/PM (mm/inch)

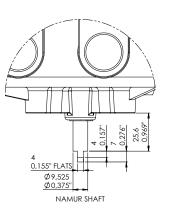
















To find your local Flowserve representative:

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Hazardous Locations

IECEx NEM 11.0012X Ex ia IIC T4/T5/T6 Nemko 11 ATEX1065X II 1G $\langle E_x \rangle$ Ex ia IIC T4/T5/T6 FM IS CI. 1 Div. 1 Grp. A,B,C,D; T4 IP66/Nema 4/4x FM NI Cl. I, Div. 2 Gr. A,B,C,D T4/T5/T6 Cl. II Div.2 Gr. E,F,G

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