

PMV PS/PM Series UltraSwitch[™] Switchbox





Simple Reliable Rugged



The PS/PM Series UltraSwitch[™] provides accurate and 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:

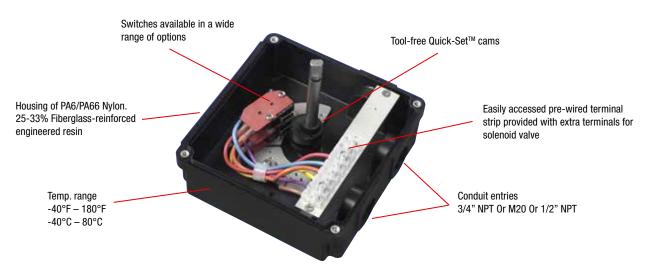
- Chemical & Petrochemical
- Food & Beverage
- Municipal & Wastewater
- Pharmaceutical
- Power

Approvals

Approvals for ATEX, IEC, FM and CSA hazardous locations, intrinsically safe and non-incendive.







Data/Materials

Switch Options Data Materials of construction



Switch Options

Code	Cert.	Switch Option	Manufacturer	Load Capacity	Data	
M1		SPDT Mechanical	Honeywell MicroSwitch	15A @ 125/250 VAC; 0,5A @ 125 VDC; 0,25A @ 250VDC; 5A @ 120VAC	Ingress protection	IP 66, according to EN 60529, Type 4X
MG	A, B, D, F	SPDT Gold Mechanical	Honeywell MicroSwitch	1A @ 125 VAC; 50 mA @ 24 VDC	Weight	1 kg / 2,2 lbs
MA		3-Position Control	Honeywell MicroSwitch	15A @ 125 VAC; 0,5A @ 125 VDC; 0,25A @ 250VDC; 5A @ 120VAC	Part	Material
M3		DPDT Mechanical	Cherry	15A @ 125/250 VAC	Housing/Cover	PA6/PA66 Nylon. 25-33% Fiberglass filled
MB		DPDT Mechanical	Licon	10A @ 125 VAC		engineered resin
MD		3-Pos. Control w/Indication (DA)	Licon	10A @ 125 VAC	Shaft	Stainless Steel
MS		3-Pos. Control w/Indication (SR)	Licon	10A @ 125 VAC	Cams/Splines	Nylon
P4	A, B, D, E, F, G	SPST Proximity	Aleph	0.35A @ 140 VAC; 0.25A @ 200VDC (50 W Max.)	Terminal Block	Nylon – Buchanan TBS Series
P5	A, B, D, E, F, G	SPDT Proximity	Hamlin	0.25A @ 120 VAC; 0.25A @ 28 VDC (3 W Max.)	Internal Brackets	Stainless Steel or Plated Steel
PE	A, B, D, E, F, G	SPDT Sabre Proximity	Flowserve	1A @ 120 VAC; 1A @ 24 VDC	All Internal Fasteners	Stainless Steel or Plated Steel
PP	C, E, G	SPDT Phazer Proximity	Flowserve	3A @ 120 VAC; 2A @ 24 VDC	All External Fasteners	Stainless Steel
PT	A, B, C, D, E, F, G	SPST BRS Proximity	Flowserve	3A @ 120 VAC; 0.5 @ 24 VDC	All Molded in Fasteners	Anodized Aluminum
N8	A, B, D, E, F	Solid State Proximity	PF NJ2 V3 N	NAMUR NC Sensor; 8 VDC	UltraDome	Polycarbonate
NP	A, B, D, F	Solid State Proximity	PF SJ3.5-N	NAMUR Sensor Output; 5-25 VDC Supply	Rotor	Polycarbonate
NQ	A, B, D, F	Solid State Proximity	PF NJ4-12GK-N	NAMUR NC Sensor; 8 VDC	Code Certificate	
NR	D, F	Solid State Proximity	PF NJ4-12GM40- E1	NPN Sinking; 200 mA max. Current; 10-60 VDC	A ATEX II 1G Ex	ia
NS	D, G	Solid State Proximity	PF NJ4-12GM40- E2	PNP Sourcing; 200 mA max. Current; 10-60 VDC	B IEC Ex ia	h
NT	D, G	Solid State Proximity	PF NJ4-12GK40-E2	NPN Sourcing; 200 mA max. Current; 10-60 VDC	C ATEX II 2 G Ex D cFMus IS	e IIID
N9		Solid State Proximity	PF NBB3-V3-Z4	NPN Sourcing; 100 mA max. Current; 5-60 VDC	E cFMus NI F cCSAus IS	
NW	A, B, D	Solid State Proximity	PF SJ3.5-SN	NAMUR NC Sensor; 8 VDC	G cCSAus NI	

More switch options available





Mounted on rotary actuator



PS/PM-Series UltraSwitch™ Nomenclature

A. Manufacturer	Р	PMV
B. Shaft	N	NAMUR VDI/VDE 3845
D. Shall	D T	Double D 1/4" NAF Turnex actuator
C. Connections	PS PM PN	Engineered Resin Housing 1/2 NPT Engineered Resin Housing M20x1,5 Engineered Resin Housing 3/4 NPT
D. Number of cable entries	2 3	2 conduits 3 conduits
E. Indicator option	1 U C D F H K R	Flat cover without indicator Standard UltraDome [™] red/green 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)
F. Switch quantity	0 2 4	No Switches 2 Switches 4 Switches
	-	4 Switches
G. Switch options	options	See page with switch options
G. Switch options H. Certificate * I. Analog output	options 14 15 21 22 27 28 0	See page with switch options General Purpose ATEX II 1G Ex ia IIC T4/T5/T6 IEC Ex ia IIC T4/T5/T6 ATEX II 2 G Ex e mb IIC T5/T6 FM IS CI. I Div. 1 Grp. A, B, C, D; T4 FM NI, CSA NI CI. I Div. 2 Grp. A, B, C, D, D None
H. Certificate *	options 14 15 21 22 27 28	See page with switch options General Purpose ATEX II 1G Ex ia IIC T4/T5/T6 IEC Ex ia IIC T4/T5/T6 ATEX II 2 G Ex e mb IIC T5/T6 FM IS CI. I Div. 1 Grp. A, B, C, D; T4 FM NI, CSA NI CI. I Div. 2 Grp. A, B, C, D, D
H. Certificate *	options 14 15 21 22 27 28 0 T D	See page with switch options General Purpose ATEX II 1G Ex ia IIC T4/T5/T6 IEC Ex ia IIC T4/T5/T6 ATEX II 2 G Ex e mb IIC T5/T6 FM IS CI. I Div. 1 Grp. A, B, C, D; T4 FM NI, CSA NI CI. I Div. 2 Grp. A, B, C, D, D None 4-20 mA transmitter 180 deg 4-20 mA transmitter
H. Certificate *	options 14 15 21 22 27 28 0 T D A 0 4	See page with switch options General Purpose ATEX II 1G Ex ia IIC T4/T5/T6 IEC Ex ia IIC T4/T5/T6 ATEX II 2 G Ex e mb IIC T5/T6 FM IS CI. I Div. 1 Grp. A, B, C, D; T4 FM NI, CSA NI CI. I Div. 2 Grp. A, B, C, D, D None 4-20 mA transmitter 180 deg 4-20 mA transmitter 0-1 kOhm Potentiometer None Weidmüller special AKZ 2,5

* Note: - SIL 3 Approved

Example P N PS U 2 M1 - 15 - 0 0 2 0

* See switch option data



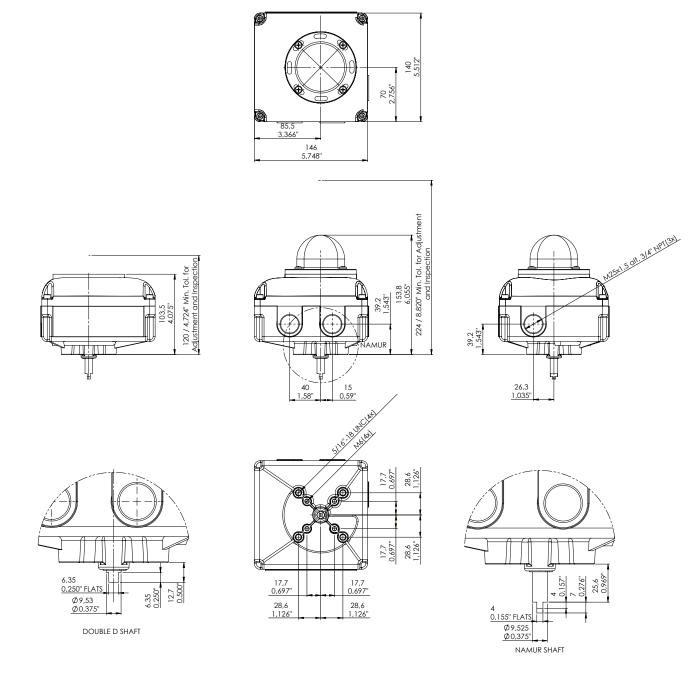
Cover Options



UltraDome™ Indicator



Dimensions PS/PM (mm/inch)







FCD PMENBR0018-03 05/22

To find your local Flowserve representative:

For more information about Flowserve Corporation, visit flowserve.com

Hazardous Locations

IECEX NEM 11.0012X Ex ia IIC T4/T5/T6 Nemko 11 ATEX1065X II 1G $\langle \epsilon_x \rangle$ Ex ia IIC T4/T5/T6 ATEX II 2 G Ex e mb IIC T6 cCSAus, Class I, Div.1, Grps. A,B,C,D T4/T5 Class II, Div.1, Grps. E,F,G, Class III cCSAus, Class I, Div.2, Grps. A,B,C,D T4/T5 Class II, Div.2, Grps. E,F,G, Class III cFMus, Class I, Div.1, Grps. A,B,C,D T4/T5/T6 Class II, Div.1, Grps. E,F,G, Class III cFMus, Class I, Div.2, Grps. A,B,C,D T4/T5 Class II, Div.2, Grps. E,F,G, Class III IP66 / Type 4x

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