

Automax PS/PM Series UltraSwitch™ Switchbox



Experience In Motion



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.

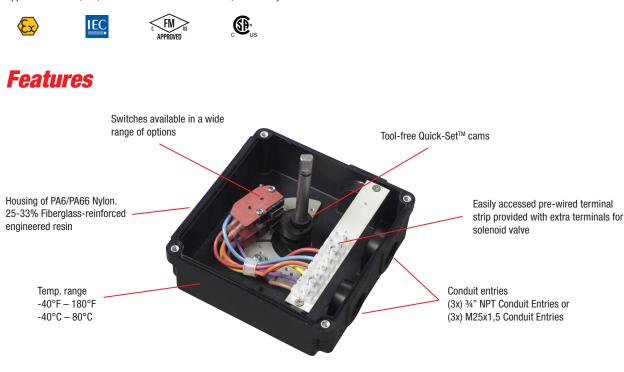
With a housing of high strength and corrosion resistant fiberglass-reinforced engineered resin, Nylon PA6/PA66, and pre-wired switches, it is both easy to install and withstands the toughest corrosive environments. Nylon PA6/PA66 is used in a number of different high strength, abrasion and impact resistant 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.



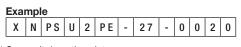




Mounted on rotary actuator



Mounted on linear actuator

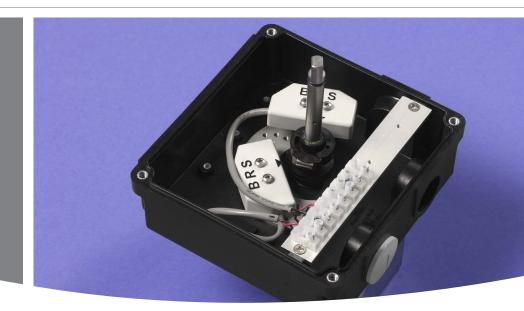


PS/PM-Series UltraSwitch™ Nomenclature

A. Manufacturer	Х	Automax
B. Shaft	N D	NAMUR VDI/VDE 3845 Double D 1/4"
C. Connections (cable entry)	PS PM PN PG	Engineered Resin Housing 1/2 NPT Engineered Resin Housing M20x1,5 Engineered Resin Housing 3/4 NPT Engineered Resin Housing M25x1,5
D. Number of cable entries	1 2 3	1 conduit 2 conduits 3 conduits
E. Indicator option	1 U C D E F H K R X	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) 180 deg 3-way UltraDome [™] (white/blue)
F. Switch quantity	0 2 4	No Switches 2 Switches 4 Switches
		T OWIGINGS
G. Switch options	options	See page with switch options
G. Switch options H. Certificate *	•	
	options 14 15 21 22 27 28 40	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 Cl. I Div. 1 Grp. A, B, C, D; T4 FM NI, CSA NI Cl. I Div. 2 Grp. A, B, C, D, D ATEX Ex ia, FM IS, CSA IS, IEC Ex ia
H. Certificate *	options 14 15 21 22 27 28 40 60 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 Cl. I Div. 1 Grp. A, B, C, D; T4 FM NI, CSA NI Cl. I Div. 2 Grp. A, B, C, D, D ATEX Ex ia, FM IS, CSA IS, IEC Ex ia ATEX Ex ia, FM IS, CSA IS, IEC Ex ia, FM NI, CSA NI None 4-20 mA transmitter 180 deg 4-20 mA transmitter
H. Certificate *	options 14 15 21 22 27 28 40 60 0 T D A 0 3 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 Cl. I Div. 1 Grp. A, B, C, D; T4 FM NI, CSA NI Cl. I Div. 2 Grp. A, B, C, D, D ATEX Ex ia, FM IS, CSA IS, IEC Ex ia ATEX Ex ia, FM IS, CSA IS, IEC Ex ia, FM NI, CSA NI None 4-20 mA transmitter 180 deg 4-20 mA transmitter 0-1K Ohm Potentiometer None Brad Harrison Connectors - 7 pins Weidmüller special AKZ 2,5

* See switch option data

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 pro
MG	A, B, D, F	SPDT Gold Mechanical	Honeywell MicroSwitch	1A @ 125 VAC; 50 mA @ 24 VDC	Weight
MA		3-Position Control	Honeywell MicroSwitch	15A @ 125 VAC; 0,5A @ 125 VDC; 0,25A @ 250VDC; 5A @ 120VAC	Part
M3		DPDT Mechanical	Cherry	15A @ 125/250 VAC	Housing/Co
MB		DPDT Mechanical	Licon	10A @ 125 VAC	
MD		3-Pos. Control w/Indication (DA)	Licon	10A @ 125 VAC	Shaft
MS		3-Pos. Control w/Indication (SR)	Licon	10A @ 125 VAC	Cams/Splir
P4	A, B, D, E, F, G	SPST Proximity	Aleph	0.35A @ 140 VAC; 0.25A @ 200VDC (50 W Max.)	Terminal B
P5	A, B, D, E, F, G	SPDT Proximity	Hamlin	0.25A @ 120 VAC; 0.25A @ 28 VDC (3 W Max.)	Internal Bra
PE	A, B, D, E, F, G	SPDT Sabre Proximity	Flowserve	1A @ 120 VAC; 2A @ 24 VDC	All Internal
PP	C, E, G	SPDT Phazer Proximity	Flowserve	3A @ 120 VAC; 2A @ 24 VDC	All Externa
PT	A, B, C, D, E, F, G	SPST BRS Proximity	Flowserve	3A @ 120 VAC; 0.5 @ 24 VDC	All Molded
N8	A, B, D, E, F	Solid State Proximity	PF NJ2 V3 N	NAMUR NC Sensor; 8 VDC	UltraDome
NP	A, B, D, F	Solid State Proximity	PF SJ3.5-N	NAMUR Sensor Output; 5-25 VDC Supply	Rotor
NQ	A, B, D, F	Solid State Proximity	PF NJ4-12GK-N	NAMUR NC Sensor; 8 VDC	Code
NR	D, F	Solid State Proximity	PF NJ4-12GM40- E1	PNP Sinking; 200 mA max. Current; 10-60 VDC	A
NS	D, G	Solid State Proximity	PF NJ4-12GM40- E2	NPN Sourcing; 200 mA max. Current: 10-60 VDC	В
NT	D, G	Solid State Proximity	EZ PF NJ4-12GK40-E2	NPN Sourcing; 200 mA max.	С
INI	D, G	Solid State Proximity	PF NJ4-120K40-E2	Current; 10-60 VDC	D
N9		Solid State Proximity	PF NBB3-V3-Z4	NPN Sourcing; 100 mA max.	E
				Current; 5-60 VDC	F
NW	A, B, D	Solid State Proximity	PF SJ3.5-SN	NAMUR NC Sensor; 8 VDC	G

Data/Materials

Data		
Ingress protection	IP 66, according to EN 60529, Type 4X	
Weight	1 kg / 2,2 lbs	
Part	Material	
Housing/Cover	PA6/PA66 Nylon. 25-33% 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	
Code Certificate		
A ATEX II 1G Ex i	a	

Code	Certificate
A	ATEX II 1G Ex ia
В	IEC Ex ia
С	ATEX II 2 G Ex e mb
D	cFMus IS
E	cFMus NI
F	cCSAus IS
G	cCSAus NI

More switch options available













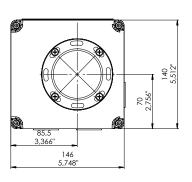
Cover Options

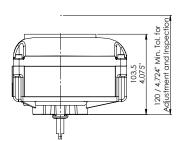


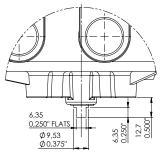
UltraDome™ Indicator



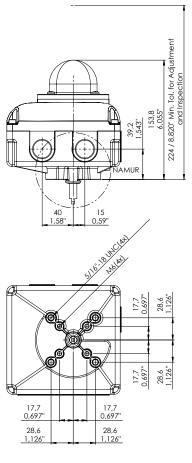
Dimensions PS/PM (mm/inch)

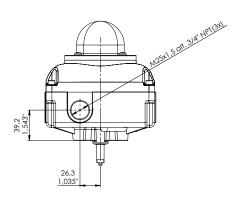


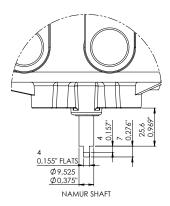




DOUBLE D SHAFT











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 IECEx NEM 11.0012X

 Ex ia IIC T4/T5/T6

 Nemko 11 ATEX1065X

 II 1G ⟨x⟩ 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/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

 cFMus, Class I, Div.2, Grps. E,F,G, Class III

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