

PS41 – Economical Miniature Pressure Switches

• 4 to 100 psi (0.28 to 7 bar)

These miniature pressure switches are designed for demanding applications where space and/or price are strong concerns. The switches utilize a piston/diaphragm design, which incorporates the high proof pressure of piston technology with the sensitivity of diaphragm designs. Switches are field adjustable via an Allen head screw that is hidden to protect against unauthorized tampering.

Specifications

Switch	SPST; SPDT		
Repeatability	See Table 1		
Wetted Parts Dianhragm Material	Nitrile (ontional FPDM Viton®or Neoprene)		
Fitting	Brass (optional 316 Stainless Steel)		
Electrical Termination	DIN 43650A IP65; Terminals IP00; Flying Leads IP65; Option IP: IP66; Conduit with Flying Leads IP65		
Proof Pressure	350 psi (24 bar)		
Burst Pressure	700 psi (48 bar)		
Approvals	CE, UL Approved units available		
Weight, Approximate	Brass: 0.3 lbs. (0.14 kg)		
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Recommended Operating Temperature Limits

	Options Selected		
Diaphragm Material	No option, -10A, -SP or -RD	-RD or -RD and -G	-SP or -10A
Nitrile	15°F to 185°F	15°F to 250°F	15°F to 212°F
	(-9°C to +85°C)	(-9°C to +121°C)	(-9°C to +100°C)
Viton®	0°F to 185°F	0°F to 250°F	0°F to 212°F
	(-18°C to +85°C)	(-18°C to +121°C)	(-18°C to +100°C)
EPDM	-10°F to +185°F	-10°F to +250°F	-10°F to +212°F
	(-23°C to +85°C)	(-23°C to +121°C)	(-23°C to +100°C)
Neoprene	-10°F to +185°F	-10°F to +250°F	-10°F to +212°F
	(-23°C to +85°C)	(-23°C to +121°C)	(-23°C to +100°C)

Note: Switches may function below the cold temperature limit but the set points and deadband will increase. Consult factory for details.

Electrical Switch Ratings

Options Selected	AC	DC	
No option or -RD	5 amps @ 125/250 Volts	5 amps resistive, 3 amps inductive @ 28 Volts	
-G or -RD with -G	1 amp @ 125 Volts	1 amp resistive, 0.5 amp inductive @ 28 Volts	
-SP without -G	10.1 amps @ 125/250 Volts	—	
-SP with -G	2 amps @ 125/250 Volts	_	



Dimensions

Flying Lead



* Adjustment screw is located under protective screw.

Ingress Protection Option (IP66) with Flying Leads Factory Set Only



DIN 43650A - Male Half Only





ø1.25[°] (ø32)

Right Angle DIN (HNR)







PRESSURE SWITCHES

How To Order

Use the **Bold** characters from the chart below to construct a product code. Please reference Notes.



Pressure Range Code Pressure Range		Accuracy*	Average Deadband**
10	4-8 psi (0.28-0.55 bar)	±0.35 psi (0.024 bar) +2% of setting	1.50 psi (0.10 bar) +7% of setting
20	7-30 psi (0.48-2.07 bar)	±0.8 psi (0.055 bar) +2% of setting	3 psi (0.21 bar) +8% of setting
30	25-100 psi (1.7-6.9 bar)	±2.0 psi (0.138 bar) +2% of setting	5 psig (0.28 bar) +10% of setting

* Accuracy and set point of units may change due to the effects of temperature.

These numbers are for the standard microswitch. With either the -SP or -10A option, the values are typically 20% greater than those listed. With the -RD option, the values will be typically 25% less than those listed. In certain applications deadband can be tailored and controlled to customer specifications. Consult factory for details.

- 2. Requires -10A or -G option. (20% increase in deadband
- 18" is standard. Specify lead
- 4. 18" is standard. Specify lead length in inches (max. 48").
- available only with -FL, -FLS Ingress Protection requires
- Pressure Range selected in