

PS71 – General Purpose Mini Pressure Switches

► 10 to 5000 psi (.7 to 344 bar) formerly PS-EH series

These versatile general purpose switches with snap action microswitches can be used in a wide range of hydraulic and pneumatic applications. Their proven piston/diaphragm design offers outstanding accuracy over a very wide pressure range with an outstanding 9000 psi proof pressure. Their modular construction allows Gems to offer a large number of standard pressure fittings in two materials as well as numerous electrical ratings and terminations. Users can easily configure this model to meet their needs.

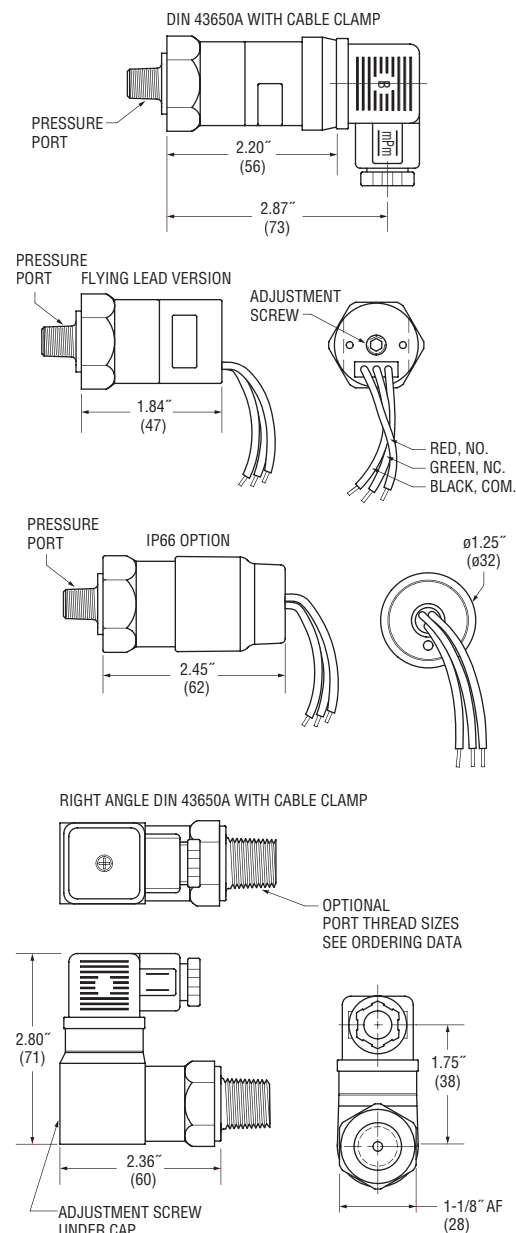
Specifications

Operating Temperature	-40°F to +180°F (-40°C to +80°C)
Switch*	5 Amp at 12/24 VDC and 125/250 VAC (Optional 10 Amp or 1 Amp with Gold contacts)
Repeatability	±2% of Full Set Point Range @ 70°F (20°C)
Wetted Parts	
Diaphragm	Nitrile (optional EPDM, Viton® or Neoprene)
Fitting	Zinc Plated Steel (Optional 316 SS)
Electrical Termination	DIN 43650A IP65; Spade Terminals IP00; Flying Leads IP65; Conduit with Flying Leads IP00; IP option IP66
Proof Pressure	9000 psi (600 bar)
Approvals	CE, UL Approved units available
Weight, Approximate	0.4 lbs. (0.15 kg)

*Gold contacts (option G) may be required for less than 12 VDC and 20 mA.
Viton® is a registered trademark of Dupont.



Dimensions



How To Order

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

SELECT	PS71	-10	-4MNZ	-C	-H	-XX	-XXXX
1. Pressure Range Code	_____						
Insert Pressure Range Code from table below							
2. Pressure Fitting ¹	_____						
12L14 Zinc Plated Steel	316 Stainless Steel						
-2MNZ 1/8" NPTM	-2MGS 1/8" BSPM						
-4MNZ 1/4" NPTM	-4MNS 1/4" NPTM						
-2MGZ 1/8" BSPM	-4MGS 1/4" BSPM						
-4MGZ 1/4" BSPM							
-4MSZ 7/16"-20 SAE Male							
-6MSZ 9/16"-18 SAE Male							
3. Circuit	_____						
-A SPST/NO; -B SPST/NC; -C SPDT							
4. Electrical Termination	_____						
-SP Spade Terminals ² ; -FLXX Flying Leads ³ ;							
-FLSXX Flying Leads w/PVC Shrink Tubing ³ ;							
-ELXX 1/2" NPT Male Conduit w/Flying Leads ⁴ ; -CABXX 18 AWG PVC Cable ⁵ ;							
-H DIN 43650A Male Half Only ⁶ ; -HR Right Angle DIN 43650A Male Half Only ⁶ ;							
-HC DIN 43650A 9mm Cable Clamp ⁶ ;							
-HCR Right Angle DIN 43650A 9mm Cable Clamp ⁶ ;							
-HN DIN 43650A with 1/2" Female NPT Conduit ⁶ ;							
-HNR Right Angle DIN 43650A with 1/2" Female NPT Conduit ⁶ ;							
-HM Micro (9.4mm Spacing) DIN Style Male Half Only ⁶							
5. Options ⁷	_____						
-V Viton [®] Diaphragm; -E EPDM Diaphragm; -N Neoprene Diaphragm;							
-10A 10A @ 125/250 VAC Max. Rating;							
-G Gold Contacts (for loads less than 12 mA @ 12 VDC);							
-RD Reduced Differential (50% reduction typical); -IP Ingress Protection ⁸ ;							
-OXY Oxygen Cleaned ⁹ ; -R Restrictor (low damping coefficient) Brass;							
-SR Spiral Restrictor (high damping coefficient) 12L14 Steel w/Black Oxide Finish;							
-WF Weather Pack Connector, Female; -WM Weather Pack Connector, Male;							
-DE Deutsch Connector, Male, DT04 Series							
6. Fixed Set Point (optional)	_____						
A. Specify set point -FS (in PSI or BAR, see example) ¹⁰							
B. Set Point Actuation	_____						
R on Rising Pressure; F on Falling Pressure							
Example: -FS2BARF for 2 BAR Falling or -FS20PSIR for 20 PSI Rising							

Notes:

- Other connectors available. Consult factory.
- Requires -10A or -G option.
- 18" is standard. Specify lead length in inches (max. 48"). e.g. -FL18 or -FLS30.
- 18" is standard. Specify cable length in inches (max. 48"). e.g. -EL18 or -EL30.
- 36" is minimum. Specify cable length in inches. e.g. -CAB36 or -CAB120.
- DIN connectors require -C SPDT circuit.
- Options -10A, -G or -RD cannot be combined.
- Ingress Protection is available only with -FL, -FLS or -CAB Electrical Termination choices.
Ingress Protection requires Fixed Set Point -FS.
- Requires stainless steel housing.
- Set Point must be within Pressure Range selected in Step 1 above.

Pressure Range Table

Pressure Range Code	Adjustment Ranges	Average Dead Band
10	10-30 psi (0.7-2.1 bar)	4-6 psi (0.25-0.40 bar)
20	25-75 psi (1.7-5.2 bar)	5-10 psi (0.35-0.65 bar)
30	65-300 psi (4.5-20.7 bar)	20-40 psi (1.3-2.6 bar)
40	250-1000 psi (17.2-69 bar)	40-85 psi (2.6-5.7 bar)
50	1000-3000 psi (69-206.8 bar)	120-220 psi (8-15 bar)
60	2500-5000 psi (172.4-344.7 bar)	300-500 psi (21-35 bar)