

PS41 – Economical Miniature Pressure Switches

▶ 3 to 100 psi (0.2 to 7 bar) – formerly PS-E series

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.

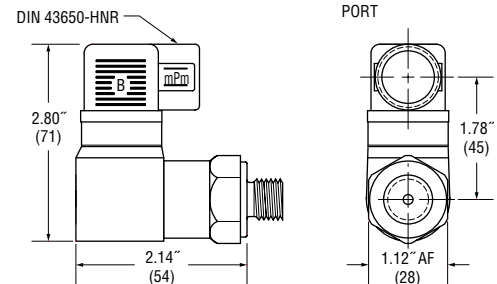
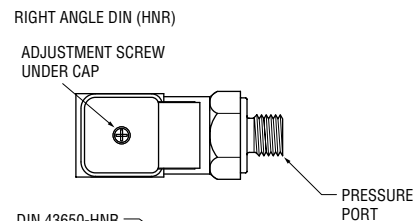
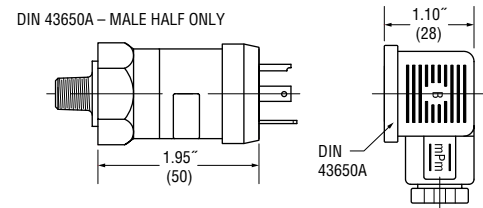
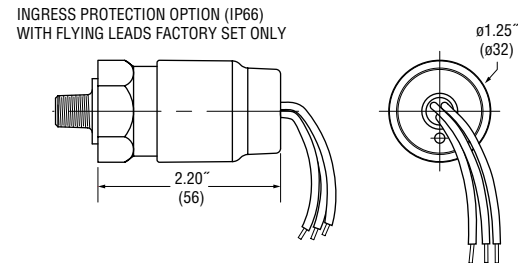
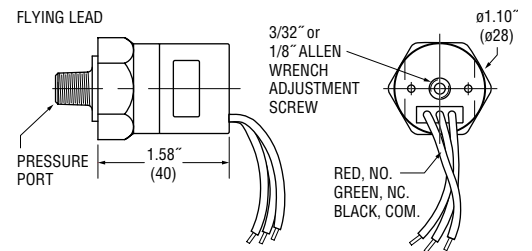
Specifications

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 Gold Contacts)
Repeatability	±2% of Full Set Point Range @ 70°F (20°C)
Wetted Parts	
Diaphragm Material	Nitrile (optional EPDM, Viton® or Neoprene)
Fitting	Brass (optional 316 Stainless Steel)
Electrical Termination	DIN 43650A IP65; Terminals IP00; Flying Leads IP65; Option IP: IP66
Proof Pressure	350 psi (25 bar)
Approvals	CE, UL Approved units available
Weight, Approximate	0.3 lbs. (0.14 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	PS41	-10	-4MNB	-C	-H	-XX	-XXXX
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- Pressure Range Code _____
Insert Pressure Range Code from table below
- Pressure Fitting¹ _____

Brass	316 Stainless Steel
-2MNB 1/8" NPTM	-2MNS 1/8" NPTM
-4MNB 1/4" NPTM	-4MNS 1/4" NPTM
-2MGB 1/8" BSPM	-4MGS 1/4" BSPM
-4MGB 1/4" BSPM	-4MSS 7/16"-20 SAE Male
-4MSB 7/16"-20 SAE Male	
-6MSB 9/16"-18 SAE Male	
- Circuit _____
-A SPST/NO; **-B** SPST/NC; **-C** SPDT
- Electrical Termination _____
-SP Spade Terminals²; **-FLXX** Flying Leads³;
-FLSXX Flying Leads w/PVC Shrink Tubing³;
-ELXX 1/2" NPT Male Conduit w/Flying Leads⁴; **-CABXX** 18 AWG PVC Cable⁵;
-H DIN 43650A Male Half Only⁶; **-HR** Right Angle DIN 43650A Male Half Only⁶;
-HC DIN 43650A 9mm Cable Clamp⁶;
-HCR Right Angle DIN 43650A 9mm Cable Clamp⁶;
-HN DIN 43650A with 1/2" Female NPT Conduit⁶;
-HNR Right Angle DIN 43650A with 1/2" Female NPT Conduit⁶;
- Options⁷ _____
-V Viton Diaphragm; **-N** Neoprene Diaphragm; **-E** EPDM 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 Protection⁸;
-OXY Oxygen Cleaned; **-WF** Weather Pack Connector, Female;
-WM Weather Pack Connector, Male; **-DE** Deutsch Connector, Male, DT04 Series
- Fixed Set Point (optional)
A. Specify set point **-FS** (in PSI or BAR, see example)⁹ _____
B. Set Point Actuation _____
R on Rising Pressure; **F** on Falling Pressure
Example: **-FS0.5BARF** for 0.5 BAR Falling or **-FS5PSIR** for 5 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 lead 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**.
- Set Point must be within Pressure Range selected in Step 1 above.

Pressure Range Table

Pressure Range Code	Pressure Range	Average Dead Band
10	3-7 psi (0.2-0.5 bar)	1-2 psi (0.07-0.14 bar)
20	5-30 psi (0.35-2.1 bar)	2-4 psi (0.14-0.28 bar)
30	25-100 psi (1.7-6.9 bar)	3-12 psi (0.21-0.85 bar)