

PS82 – Economical Miniature Vacuum Switches

► 5" to 30" Hg (169 to 1016 mbar) formerly PS-EV series

These miniature vacuum switches, based on our proven PS71 series, are designed for demanding applications where space and/or price are strong concerns.

Specifications

Operating Temperature	-40°F to +180°F (-40°C to +80°C)
Switch*	5 Amp at 12/24 VDC and 125/250 VAC; 1 Amp with gold contacts (option G)
Repeatability	±2% of Full Set Point Range @ 70°F (20°C)
Wetted Parts	
Diaphragm Material	Nitrile standard (optional EPDM, Viton® and Neoprene)
Fitting	Brass (optional 316 Stainless Steel)
Spring	316 Stainless Steel
Electrical Termination	DIN 43650A IP65; Male Conduit with Flying Leads IP00; Flying Leads IP65; IP option IP66
Proof Pressure	500 psi (35 bar)
Approvals	CE
Weight, Approximate	0.5 lbs. (0.25 kg)

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

How To Order

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

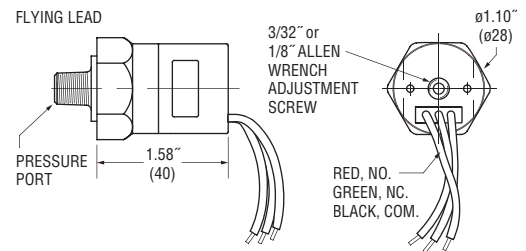
SELECT PS82 **-10** **-4MNB** **-C** **-H** **-XX** **-XXXX**

- Pressure Range Code 10
Insert Pressure Range Code from table below right
- Pressure Fitting¹ 4MNB

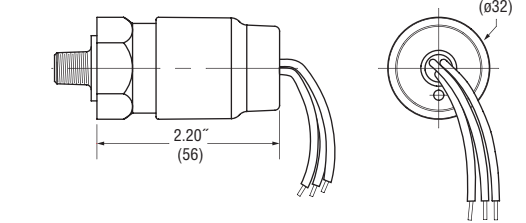
Brass	316 Stainless Steel
-2MNB 1/8" NPTM	-2MNS 1/8" NPTM
-4MNB 1/4" NPTM	-4MNS 1/4" NPTM
-2MGB 1/8" BSPM	-4MGS 1/4" BSPM
-4MGB 1/4" BSPM	
-4MSB 7/16"-20 SAE Male	
-6MSB 9/16"-18 SAE Male	
- Circuit C
-A SPST/NO; **-B** SPST/NC; **-C** SPDT;
- Electrical Termination XX
-FLXX Flying Leads²; **-FLSXX** Flying Leads w/PVC Shrink Tubing²;
-ELXX 1/2" NPT Male Conduit w/Flying Leads³; **-CABXX** 18 AWG PVC Cable⁴;
-H DIN 43650A Male Half Only⁵; **-HR** Right Angle DIN 43650A Male Half Only⁵;
-HC DIN 43650A 9mm Cable Clamp⁵;
-HCR Right Angle DIN 43650A 9mm Cable Clamp⁵;
-HN DIN 43650A with 1/2" Female NPT Conduit⁵;
-HNR Right Angle DIN 43650A with 1/2" Female NPT Conduit⁵;
-HM Micro (9.4mm Spacing) DIN Style Male Half Only⁵
- Options XXXX
-V Viton® Diaphragm; **-N** Neoprene Diaphragm; **-E** EPDM Diaphragm;
-G Gold Contacts (for loads less than 12 mA @ 12 VDC);
-RD Reduced Differential (50% reduction typical); **-IP** Ingress Protection⁶;
-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 Inches Hg or mBAR, see example)⁷
 B. Set Point Actuation R
R on Rising Vacuum; **F** on Falling Vacuum
 Example: **-FS300MBA**R for 300 mBAR Falling or **-FS10INHGR** for 10" Hg Rising



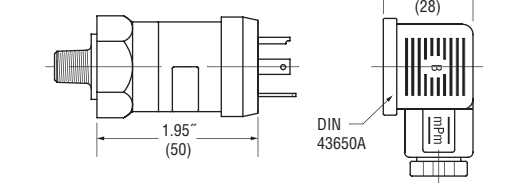
Dimensions



INGRESS PROTECTION OPTION (IP66) WITH FLYING LEADS FACTORY SET ONLY



DIN 43650A – MALE HALF ONLY



Pressure Range Table

Pressure Range Code	Pressure Range	Average Dead Band
10	5-15" Hg (169.3-508.0 mbar)	3-5" Hg (100-150 mbar)
20	12-28" Hg (406.4-948.2mbar)	3-9" Hg (100-270 mbar)

Notes:

- Other connectors available. Consult factory.
- 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.
- 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.