PS11 – Ultra-Long Life OEM Pressure Switches

- 0.75 to 15 psi (52 to 1034 mbar)
- 1,000,000 Cycle Life Typical
- Factory Set or Adjustable Set Points

For low pressure applications, the longevity of our PS11 Series is hard to beat. A life expectancy of 1 million cycles means long-term reliability. Their snap-action microswitch resets automatically and meets or exceeds industry standards. The brass housing offers chemical resistance at an affordable price.

Specifications

Switch*	5 Amp @ 24 VDC and 250 VAC 1.0 Amp resistive 0.5 Amp inductive @ 24 VDC (-G option)
Repeatability	See Table 1
Wetted Parts	
Diaphragm	Nitrile (optional Viton®, EPDM or Kapton®)
Fitting	Brass
Housing	Brass
O-Ring	Nitrile (optional Viton® or EPDM)
Electrical Termination**	DIN 43650A IP00; Terminals IP00; Flying Leads IP00
Proof Pressure	0 psia to 150 psi (-1 bar to 10.3 bar)
Burst Pressure	300 psi (20.7 bar)
Approvals	CE, UL Approved units available
Weight, Approximate	0.31 lbs. (0.14 kg)

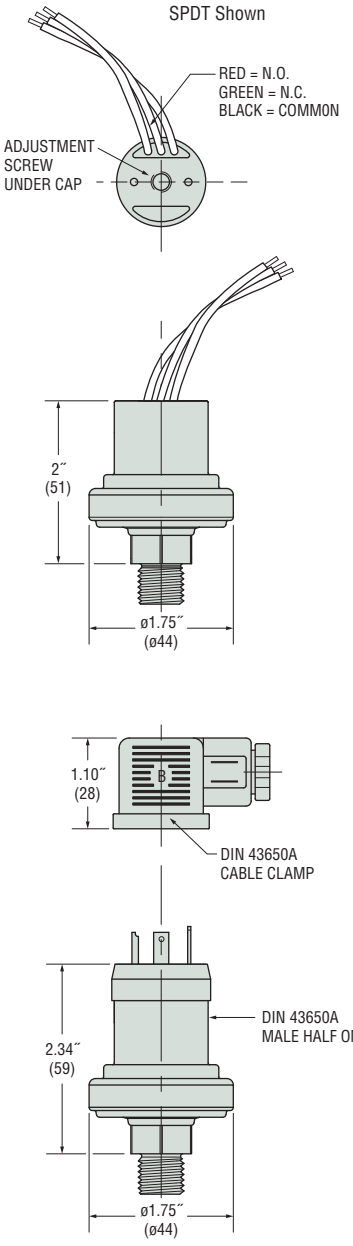
* Gold contacts (option G) may be required for less than 12 VDC and 20 mA.
** Plastic housing is vented to atmosphere. Consult factory for non-vented version.

Recommended Operating Temperature Limits

Diaphragm Material	Range
Nitrile	15°F to 250°F (-9°C to +121°C)
Viton®	0°F to 250°F (-18°C to +121°C)
EPDM	-40°F to +250°F (-40°C to +121°C)
Kapton®	-40°F to +250°F (-40°C to +121°C)

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

Dimensions



PRESSURE SWITCHES

How To Order

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

PS11 -10 -4MNB -C -HC -XX -XXXX
(1) (2) (3) (4) (5) (6)

(1) Pressure Range Code
Insert Pressure Range Code from Table 1, below.

(2) Pressure Fitting[1]
-2MNB = 1/8˝ NPTM Brass
-4MNB = 1/4˝ NPTM Brass
-2FNB = 1/8˝ NPTF Brass
-4MGB = 1/4˝ BSPM Brass (G type)
-4MSB = 7/16˝-20 SAE Male, Brass
-6MSB = 9/16˝-18 SAE Male, Brass

(3) Circuit
-A = SPST/N.O.
-B = SPST/N.C.
-C = SPDT

(4) Electrical Termination[2]
-FLXX = Flying Leads[3]
-ELXX = 1/2˝ Male NPT Conduit w/Flying Leads[3]
-H = DIN 43650A Male Half Only
-HC = DIN 43650A 9mm Cable Clamp
-HN = DIN 43650A 1/2˝ NPT Female Conduit

(5) Options
-V = Viton® Diaphragm
-E = EPDM Diaphragm
-K = Kapton® Diaphragm
-IP = Ingress Protection[4]
-G = Gold Contacts
(for loads less than 12 mA @ 12 VDC)
-OXY = Oxygen Cleaned
-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 mBAR, see example)[5]
B. Set Point Actuation
R on Rising Pressure
F on Falling Pressure
Example: **-FS200MBARF** for 200 mBAR Falling
or **-FS3PSIR** for 3 PSI Rising

Notes:
1. Other fittings available. Consult factory.
2. DIN units are available with **-C** SPDT circuit only.
3. 18˝ is standard. Specify lead length in inches (max. 48˝). e.g. **-FL18** or **-EL30**.
4. Ingress Protection requires Fixed Set Point **-FS**.
5. Set Point must be within Pressure Range selected in Step 1.

Table 1 — Pressure Range Codes

Pressure Range Code	Pressure Range	Repeatability*	Average Deadband**
10	0.75-4 psig (51-276 mbar)	±0.15 psi (10 mbar) +4% of setting	0.2 psi (14 mbar) +9% of setting
20	3.5-15 psig (241-1034 mbar)	±0.25 psi (17 mbar) +5% of setting	0.4 psig (26 mbar) +11% of setting

* Repeatability and set point of units may change due to the effects of temperature.
** In certain applications deadband can be tailored and controlled to customer specifications. Consult factory for details.