

PS41 – Economical Miniature Pressure Switches

3.5 to 100 psi (0.24 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 | | | |
| 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; 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) | | |
| | | | |

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) |

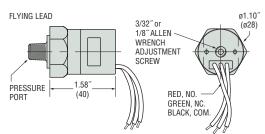
Note: Switches may function below the cold temperature limit but the set points and deadband will increase. Consult factory for details.

Electrical Switch Ratings

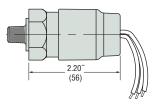
| Options Selected | AC | DC |
|-------------------------|---------------------------|--|
| No option or -RD | 5 amps @ 125/250 Volts | 5 amps resistive, 3 amps inductive @ 28 Volts |
| -G or -RD with -G | 1 amp @ 125 Volts | 1 amp resistive, 0.5 amp inductive @ 28 Volts |
| -SP without -G | 10.1 amps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

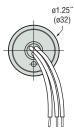


Dimensions

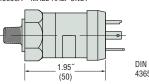


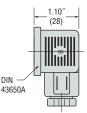
INGRESS PROTECTION OPTION (IP66) WITH FLYING LEADS FACTORY SET ONLY





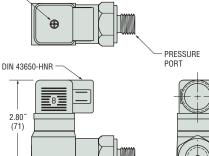
DIN 43650A - MALE HALF ONLY





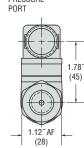
RIGHT ANGLE DIN (HNR)

ADJUSTMENT SCREW UNDER CAP SCREW



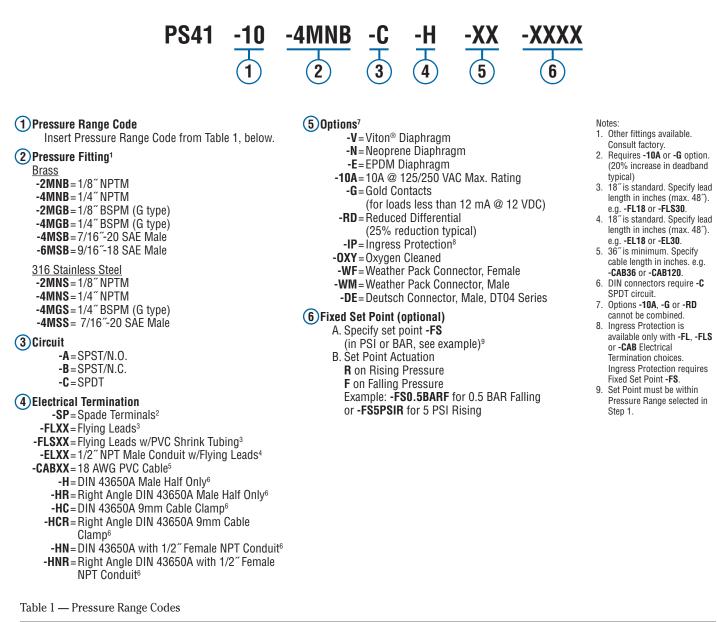
2.14

(54)



How To Order

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



Average Deadband**

1.50 psi (0.14 bar) +7% of setting

3 psi (0.21 bar) +8% of setting

5 psig (0.28 bar) +10% of setting

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

Pressure Range Code

10

20

30

** 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.

Pressure Range

3.5-8 psi (0.24-0.55 bar)

7-30 psi (0.48-2.07 bar)

25-100 psi (1.7-6.9 bar)

Repeatability*

±0.35 psi (0.024 bar) +2% of setting

±0.8 psi (0.055 bar) +2% of setting

±2.0 psi (0.138 bar) +2% of setting