PS91 – Compact Differential Switch

New!

- 5 to 25 psi (.3 to 1.7 bar)
- Unaffected by Static Pressure
- Robust Packaging for Harsh Applications

The PS91 is a differential pressure switch that is not affected by changes in static pressure (common line pressure). The PS91 is designed for a unique manifold, or supplied with two ¼˝ NPT female ports for more general purpose applications. The switch can be adjusted via a central screw on top of the unit. The unit is supplied with a mini-DIN connector in keeping with the compact packaging.

Specifications

Operating Temperature	-40°F to +180°F (-40°C to +80°C)
Switch*	5 Amp @ 24 VDC and 250 VAC; 0.5 Amp @ 24 VDC
Repeatability	±2% of Full Set Point Range @ 70°F (20°C)
Wetted Parts	
Diaphragm	Nitrile standard (optional EPDM and Viton®)
Fitting	Black Anodized Aluminum
Housing	30% Glass Filled Nylon; Buna-N O-rings
Electrical Termination	DIN 43650C IP65; Terminals IP00
Proof Pressure	1500 psi (100 bar)
Approvals	CE
Weight, Approximate	0.10 lbs. (0.045 kg)

*Gold contacts (option G) may be required for less than 12 VDC and 20 mA.

How To Order

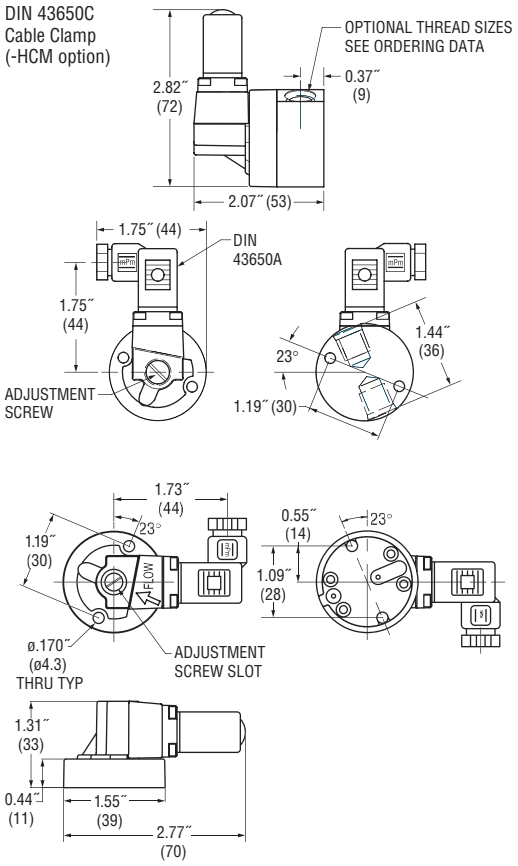
Use the **Bold** characters from the chart below to construct a product code.

SELECT **PS91** **-10** **-4FSA** **-C** **-HM** **-XX** **-XXXX**

1. Pressure Range Code
   Insert Pressure Range Code from table below
2. Pressure Fitting
   -2FNA 1/8˝ NPTF Aluminum;
   -4FSA 7/16˝-20 SAE Female, Aluminum;
   -30MA Manifold Mount, (2) 4.3 mm Dia. Holes,
   30.2 mm Dia. B.C., 30% Glass Filled Nylon
3. Circuit
   -C SPDT
4. Electrical Termination
   -HM DIN 43650C Male Half Only (standard);
   -HCM DIN 43650C 7 mm Cable Clamp
5. Options
   -V Viton® Diaphragm; **-E** EPDM Diaphragm
6. Fixed Set Point (optional)
   A. Specify set point **-FS** (in PSI or BAR, see example)[1]
   B. Set Point Actuation
   R on Rising Pressure; **F** on Falling Pressure
   Example: **-FS1BARF** for 1 BAR Falling or **-FS10PSIR** for 10 PSI Rising

Note:
1. Set Point must be within Pressure Range selected in Step 1 above.

Pressure Range Table

Pressure Range Code	Pressure Range	Average Dead Band
10	5-15 psid (0.35-1.0 bar)	2-5 psi (0.15-0.3 bar)
20	12-25 psid (0.8-1.7 bar)	4-7 psi (0.25-0.5 bar)

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