PS-FA & PS-FB Series – Rugged Cylindrical Pressure Switch

- Wear Disc Design for Longer Life
- 0,35 to 420 bar (5 to 6000 PSI) Pressure Range
- 600 bar (9000 PSI) Proof Pressure

Gems PS-FA & PS-FB Series have all metal surfaces for overload stops and deliver reliable operation under extremely high pressure surges. They are designed with a wear disc and cushioning ring for an increased life span. The switches use a piston/diaphragm design, which combine the high proof pressure of piston technology with the sensitivity of a diaphragm design. They can be field or factory adjusted.

PS-FA Series

PS-FB Series

Specifications

Process/Ambient Temperature	-40°F to +176°F (-40°C to +176°C)
Switch	5 Amp SPDT@120/240 VAC and 12/24 VDC (>2 million cycles @ 100 psi)
Approvals	Microswitch is UL and CSA recognized
Repeatability	2% of highest set point @ 70°F (20°C)
Wetted Parts	
Diaphragm	Buna-N (optional EPDM or Viton®)
Fitting	Zinc-Plated Steel or 304 SS
Housing	IP65 (Nema 4) Zinc-Plated Steel (Optional 316 Stainless Steel)
Electrical Termination	DIN 43650A 18˝ (0.5m) Long, 18 AWG (0.82mm2), PVC Leads
Pressure Port	See "How to Order" Chart Below
Weight, Approximate:	0.5 lbs. (0.23 kg)

How To Order

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

SELECT — **PS** **-FB** **-1** **-4M** **-C** **-HC** **-X**

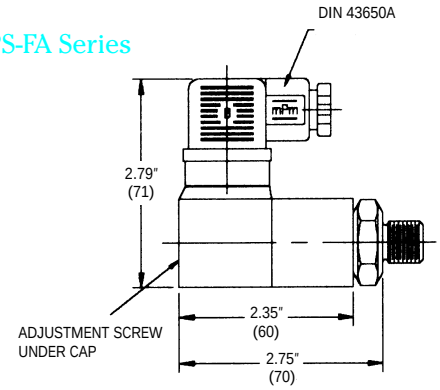
1. Series
   -FA side-mounted DIN connection;
   -FB top-mounted electrical connection
2. Insert Range Code From Table Below
3. Pressure Port
   -4M 1/4" NPT male; **-4G** G 1/4 male; **-4S** 7/16-20 UNF male;
   -4FS 1/4" NPT female 304 ss; **-4BS** G 1/4 female 304 ss
4. Circuit (*)
   -C SPDT; **-A** SPST/NO; **-B** SPST/NC; **-CC** DPDT; **-AA** DPST/NO; **-BB** DPST/NC
5. Electrical Termination (#)
   -FL flying leads; **-FLWF** flying leads w/weather pack connector; **-H** DIN male only;
   -HC DIN connection w/strain relief; **-HN** DIN connection w/1/2" conduit
6. Options
   -1 Viton® diaphragm; **-2** EPDM diaphragm; **-3** 316 ss housing; **-7** gold electrical contacts;
   -9 reduced deadband; **-20** IP67 submersible; **-SR** surge restrictor; **-B** oxygen cleaned

Note: (+) for factory-set units indicate setting and units followed by **-R** for rising or **-F** for falling
Example: PS-FA-50psi-R-4M-A-FL (50psi, Rising, 1/4" NPT, Normally Open Switch, Flying Leads)
(*) lead wires required on all selections except **-C** SPDT option
(#) FA series options are DIN connection-style only

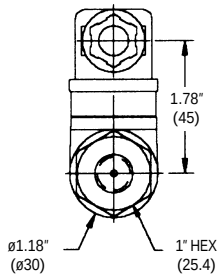
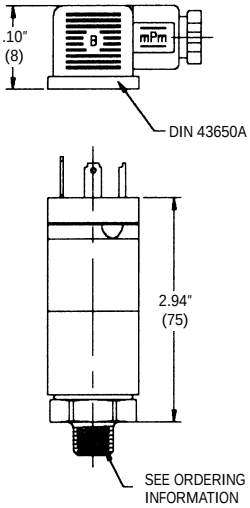
Pressure Range Code	Adjustable Range		Average Deadband		Proof Pressure	
	PSI	Bar	PSI	Bar	PSI	Bar
-1	5-25	0.35-1.7	2-4	0.15-0.30	500	35
-2	15-75	1-5	5-10	0.35-0.7	9000	600
-2A	50-150	3.5-10	10-20	0.7-1.4	9000	600
-3	150-650	10-45	40-60	2.7-4	9000	600
-4A	500-1750	35-120	120-200	8-14	9000	600
-4	1000-3500	70-240	275-425	19-30	9000	600
-5	2500-6000	170-420	520-730	36-50	9000	600

Dimensions

PS-FA Series



PS-FA Series



PS-FB Series