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F-5100 Series
Subminiature Pressure Switch





The F-5100 Series Subminiature Pressure Switches interface from pressure to electrical control circuits. Ideal for high pressure and low differential applications. The switch is adjustable 0.5 - 100 PSI with a maximum of 100 PSI supply. The switches have three electrical terminals: Normally Open, Normally Closed and Common. 15 AMP switches are standard. 0.1 to 25 AMP switches are available.

Four mounting styles are available: The standard flush mount; the panel mount has a unique thread that goes from 1/8-27 tapered pipe thread to 1/8-27 straight pipe thread for mounting; the manifold mount is designed to mount directly on pneumatic circuit boards or manifold subplates - a Buna N o-ring is supplied; and 1/8 NPT mount which has 1/8-27 tapered pipe threads. The switches are furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

ORDERING INFORMATION (Order by model number, adjustment range, mounting style, port connection and switch selection as shown below.)

F-5100 — 15 — PM — B85 — .1B

Model Number	Adjustment Range	Mounting Style	Port Connection	Switch Selection
F-5100	**15**-0.5 to 15 PSI	**FM**-Flush Mount	**B80**-Barb for 1/16" I.D. Tubing	**.1B**-0.1 AMP
	30-0.5 to 30 PSI	**PM**-Panel Mount 1/8-27 NPS	**B85**-Barb for 1/8" I.D. Tubing	**3A**-3 AMP
	60-0.5 to 60 PSI	**MM**-Manifold Mount	No Accessory Number required for a **B-80** Barb	**5A**-5 AMP
	100-0.5 to 100 PSI	**PT**-Pipe Thread Mount 1/8-27 NPT		**10A**-10 AMP
				15A-15 AMP
				25A - 25 AMP
				No Accessory Number required for a 15 AMP

FEATURES

- Low Cost
- Subminiature Size
- High Pressure Adjustment
- Low Differential
- Snap-Action Switch
- Fast Response

SPECIFICATIONS

ELECTRICAL

Switch Action: Single pole, double throw
Electrical Rating: 15 AMP is standard; no accessory number required
0.1 to 25 AMP switches are available
Electrical Switch: UL Approved
Electrical Connections: .187" quick-connect terminal

MECHANICAL

Operating Speed: Activate or release in 25 milliseconds
Signal Pressure: 100 PSI maximum
Adjustment Range: 0.5 to 100 PSI, ± 0.5 tolerance on the initial starting pressure
Temperature Limits: 40° to 120°F. (4° to 49°C.)

MATERIALS

Housing: Polysulfone
Diaphragm: Polyurethane
Spring: Stainless Steel or Music Wire

MOUNTING

Flush Mount: mounting hole .125" diameter, use No. 4 self-tapping or 5-40 screw
Panel Mount: 1/8-27 NPT to 1/8-27 NPS, 10-32 female internal threads Mounting hole size 7/16" diameter. Supplied with mounting nut
Manifold Mount: Two mounting holes .125" diameter, use No. 4 self-tapping or 5-40 screw, supplied with Buna N o-ring
1/8 NPT Mount: 1/8-27 male tapered pipe threads with 10-32 female internal threads

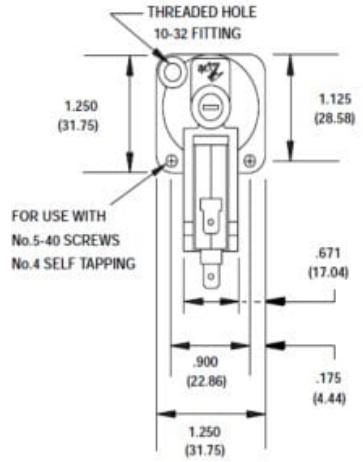
PORT CONNECTIONS

10-32 female threads.

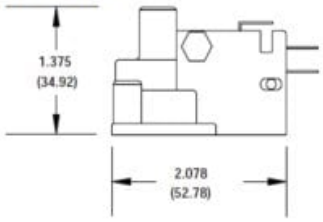
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

DIMENSIONS

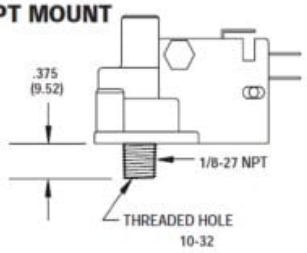
( ) = Metric Dimensions



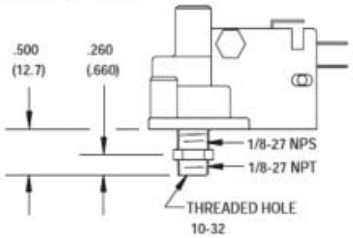
FLUSH MOUNT



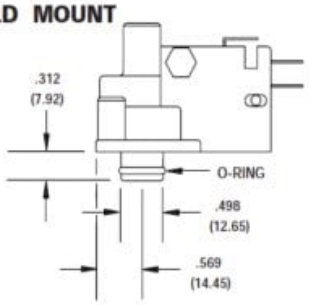
1/8 NPT MOUNT



PANEL MOUNT



MANIFOLD MOUNT



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