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V-5100 Series
Subminiature Vacuum Switch





The V-5100 Series Vacuum Switches interface from vacuum to electrical control circuits. Ideal for low differential vacuum applications. The switch is adjustable from 1 to 28" Hg with 29.9" Hg maximum.

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.)

V-5100 — 10 — PM — B85 — .1B

Model Number	Adjustment Range	Mounting Style	Port Connection	Switch Selection
V-5100	**5**-1 to 5" Hg	**FM**-Flush Mount	**B80-**Barb for 1/16" I.D. Tubing	**.1B** -0.1 AMP
		PM-Panel Mount 1/8-27 NPS		**3A** -3 AMP
	10-2 to 10" Hg			**5A** -5 AMP
		MM-Manifold Mount	**B85-**Barb for 1/8" I.D. Tubing	**10A** -10 AMP
				15A -15 AMP
	28-3 to 28" Hg	**PT**-Pipe Thread Mount 1/8-27 NPT		**25A** -25 AMP
			No Accessory Number required for a **B-80** Barb	No Accessory Number required for a 15 AMP

FEATURES

- Low Cost
- Subminiature Size
- 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: 29.9" Hg maximum
Adjustment Range: 1 to 28" Hg
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

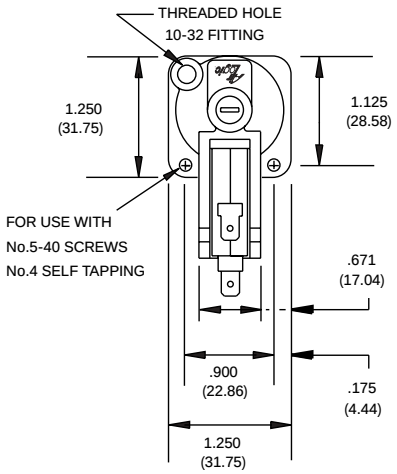
PORT CONNECTIONS

10-32 female threads.

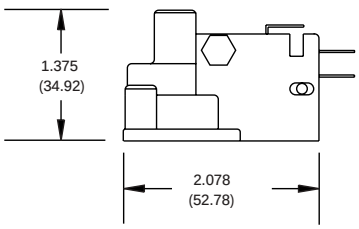
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

DIMENSIONS

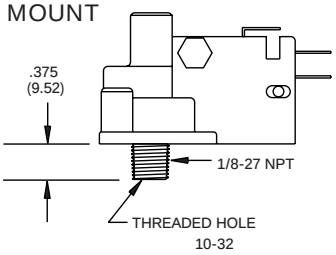
( ) = Metric Dimensions



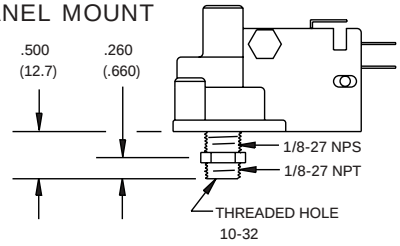
FLUSH MOUNT



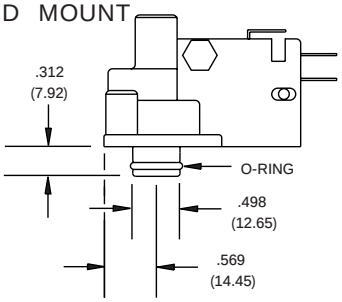
1/8 NPT MOUNT



PANEL MOUNT



MANIFOLD MOUNT



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