V-5500 Series Solid State Vacuum Switch

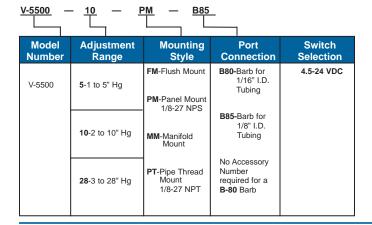


The V-5500 Series Solid State Vacuum Switches interface from vacuum to electrical control circuits.

The switch is adjustable from 1 to 28" Hg with a maximum 29.9" Hg vacuum supply. The Solid State Switch combines precision mechanical switch operating convenience with solid state reliability. It uses the Hall sensor. An integrated circuit, activated by a magnet located in the operating plunger, produces a digital output. There are no contacts. Supply voltage is 4.5-24 VDC. The Solid State Switch is a direct interface with solid state circuits. The digital logic-level output eliminates the need for conditioning circuitry to obtain a square wave output. A terminal housing can be provided for use with AMP 102241-1 terminals.

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, and port connection as shown below.)





FEATURES

- Low Cost
- Subminiature Size
- Low Differential
- Solid State Switch
- Fast Response

SPECIFICATIONS

ELECTRICAL

Switch Action: Solid State Hall Sensor Electrical Rating: 4.5-24 VDC Electrical Switch: UL Approved

Electrical Connections: AMP 110224-1 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

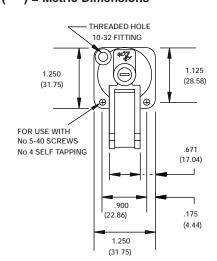
PORT CONNECTIONS

10-32 female threads.

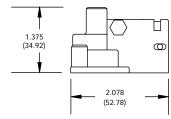
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

DIMENSIONS

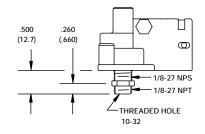
) = Metric Dimensions



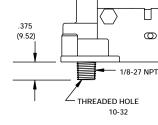
FLUSH MOUNT



PANEL MOUNT



1/8 NPT MOUNT



MANIFOLD MOUNT

