10910 Pneumatic Components and Systems



Pressure Switches Vacuum Switches



Introduction to Air Logic

The Air Logic Division of Fred Knapp Engraving Company designs and manufactures a comprehensive line of pneumatic and vacuum control equipment.

Air Logic is a manufacturer of miniature precision snap-acting switches that interface from pressure signals to electrical control circuits and from vacuum signals to electrical systems. The snap-action electrical switch provides a positive and reliable response. The switch operation is based on the actuation of a precision snap-acting switch acting against a diaphragm. The extremely short stroke and small volume permit fast response. Ideal for precise pressure and vacuum sensing.

The switches are single pole, double throw for normally open, normally closed and common terminals which are available from 0.1 to 25 AMP, 15 AMP standard. For low current applications, gold contact and solid state switches are available.

Maximum pressure 100 PSI or maximum vacuum 29.9" Hg. Adjustment ranges 0.5 to 100 PSI or 1 to 28" Hg. Special actuating and releasing pressure are available on request.

The switches include Miniature Switches, Subminiature Switches, Low Differential Switches, Solid State Switches and Pilot Operated Valves.

The Miniature Switch is designed for low pressure or low level vacuum applications.

The Subminiature Switch is designed for high pressure or high level vacuum applications.

The Low Differential Switch is designed for a low difference between the "ON" and "OFF" actuating and releasing set points.

The Solid State Switch is a direct interface with solid state electrical circuits.

The Pilot Operated Valves are designed to be normally open or closed. The Pressure Pilot Valve has an adjustable pressure pilot setpoint with a pressure output.

The Vacuum Pilot Valve has an adjustable vacuum pilot setpoint with a pressure output.

Air Logic has a strong reputation for immediate service, quality and dependability. For special applications and requirements, call Air Logic.

Logic and Lare trademarks of Air Logic registered in the United States Patent and Trademark Office.

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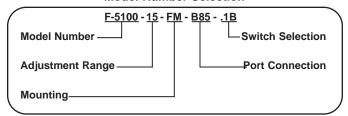
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Switch Selection Guide

Please order by Model Number. After the Model Number has been selected determine the Adjustment Range, Mounting Style, Port Connection and Switch Selection.

The switches are furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing. The B80 accessory number does not have to be specified when ordering the switch. An example of the switch selection is show below.

Model Number Selection



	Mount	ting Style
Selection	Accessory Letter	Description
Flush Mount	FM	2 mounting holes for base mounting
Panel Mount	PM	1/8-27 NPT to 1/8-27 NPS
Manifold Mount	ММ	2 mounting holes for manifold board supplied with Buna N o-ring
1/8 NPT	PT	1/8-27 male tapered pipe threads with 10-32 female internal threads
	Port Co	onnection
10-32 Female	B80	Barb for 1/16" I.D. tubing
Threads	B85	Barb for 1/8" I.D. tubing
	Switch	Selection
Standard Switches	5A	5 AMP - 125, 250, 277 VAC 1/10 HP, 250 VAC
	15A	15.1 AMP - 1/3 HP, 125 or 250 VAC 1/2 AMP, 125 VDC 1/4 AMP, 250 VDC 5 AMP, 125 VAC "L"
Gold Crosspoint	.1B	0.1 AMP - 125 VAC
Special Switches	ЗА	3 AMP - 125, 250, 277 VAC 1/10 HP, 250 VAC
Available	10A	10 AMP - 1/4 HP, 125 or 250 VAC 1/2 AMP, 125 VDC 1/4 AMP, 250 VDC 3 AMP, 125 VAC "L"
	25A	25 AMP - 277 VAC 1 HP, 125 VAC 2 HP, 250 VAC
Low Differential Switches	4A	4 AMP - 250 VAC 1/10 HP, 125 VAC 30 VAC
	.1B	01. AMP - 250 VAC
Solid State		Supply Voltage 4.5 - 24 VDC
Switches		Supply Current 5 m A
		Output Current 10 m A Sinking
Pressure Piloted 3-Way Valve	N.O.	Normally Open- Senses Pressure/ Turns Output OFF
	N.C.	Normally Closed- Senses Pressure/ Turns Output ON
Vacuum Piloted 3-Way Valve	N.O.	Normally Open- Senses Vacuum/ Turns Output OFF
	N.C.	Normally Closed- Senses Vacuum/ Turns Output ON

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F-4100 Series Miniature Pressure Switch



The F-4100 Series Miniature Pressure Switches interface from pressure to electrical control circuits. Ideal for general sensing applications. The switches are available with preset and adjustable pressure settings. The F-4100-50 is preset at 5" H₂O and the F-4100-90 is preset at 15" H₂O. The F-4100-85W is adjustable 8 to 85" H₂O. The F-4100-100 and the F-4100-200 are adjustable 0.5-15 PSI. The switches have three electrical terminals: Normally Open, Normally Closed and Common. 0.1, 5 and 15 AMP switches are available. The switches are furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

FEATURES

- Snap-Action Switch
- Fast Response

SPECIFICATIONS

ELECTRICAL

Switch Action: Single pole, double throw

Electrical Rating: 0.1, 5 or 15 AMP, 125 or 250 Volt AC

Electrical Switch: UL Approved

Electrical Connections: .187" quick-connect terminal

MECHANICAL

Operating Speed: 25 milliseconds Signal Pressure: See chart below.

Temperature Limits: 40° to 120°F. (4° to 49°C.)

MATERIALS

Housing: Polysulfone Diaphragm: Polyurethane

Spring: Stainless Steel or Music Wire

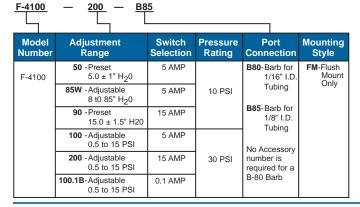
MOUNTING

Flush Mount: mounting hole .149" diameter, use No. 6-32 screw

PORT CONNECTIONS

10-32 female threads. Furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

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



V-4100 Series Miniature Vacuum Switch

The V-4100 Series Vacuum Switches interface from vacuum to electrical control circuits. Ideal for low level vacuum applications. The switches are available with preset and adjustable vacuum settings. The V-4100-0.7 is preset at .7" Hg or 10" $\rm H_20$. The V-4100-1 is preset at 1" Hg, and the V-4100-4 is adjustable from 1.5 to 4" Hg. Maximum 29.9" Hg. The switches have three electrical terminals: Normally Open, Normally Closed and Common. 0.1, and 10 AMP switches are available. The switches are furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

FEATURES

- Snap-Action Switch
- Fast Response

SPECIFICATIONS

ELECTRICAL

Switch Action: Single pole, double throw

Electrical Rating: 0.1, or 10 AMP, 125 or 250 Volt AC

Electrical Switch: UL Approved

Electrical Connections: .187" quick-connect terminal

MECHANICAL

Operating Speed: 25 milliseconds Signal Pressure: 29.9" Hg maximum

Temperature Limits: 40° to 120°F. (4° to 49°C.)

MATERIALS

Housing: Polysulfone Diaphragm: Polyurethane

Spring: Stainless Steel or Music Wire

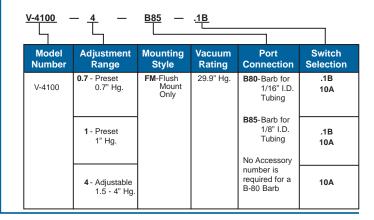
MOUNTING

Flush Mount: mounting hole .149" diameter, use No. 6-32 screw

PORT CONNECTIONS

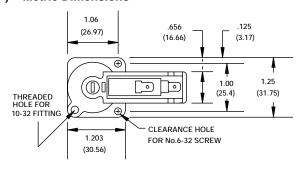
10-32 female threads. Furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

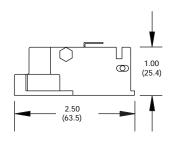
ORDERING INFORMATION (Order by model number, adjustment range and port connection as shown below.)



DIMENSIONS

) = Metric Dimensions





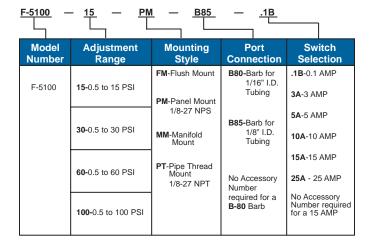
F-5100 Series Subminiature Pressure Switch



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.)





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 selftapping 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

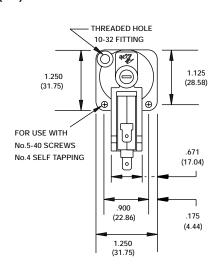
PORT CONNECTIONS

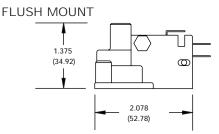
10-32 female threads

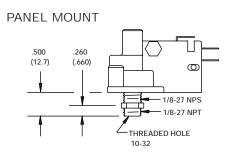
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

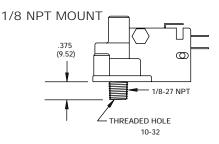
DIMENSIONS

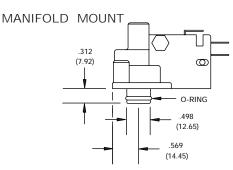
) = Metric Dimensions











V-5100 Series Subminiature Vacuum Switch

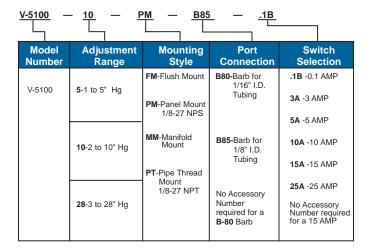


The V-5100 Series Vacuum Switches interface from vacuum to electrical control circuits. Ideal for low differential vacuum applications. The switch is adjustable from 1 to 28" Hg with 29.9" Hg maximum.

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.)





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

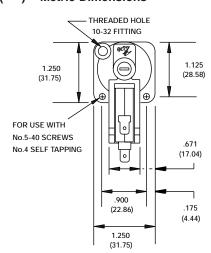
PORT CONNECTIONS

10-32 female threads.

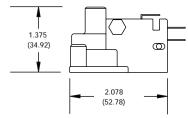
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

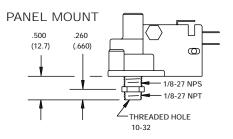
DIMENSIONS

) = Metric Dimensions

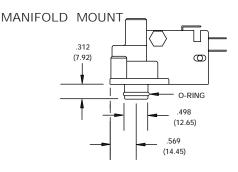


FLUSH MOUNT





1/8 NPT MOUNT .375 (9.52) THREADED HOLE 10-32



F-5300 Series Low Differential Pressure Switch



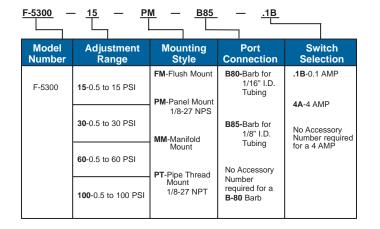
The F-5300 Series Low Differential Pressure Switches interface from pressure to electric control circuits. Designed for a low difference between "ON" and "OFF" pressure.

The switch is adjustable 0.5 to 100 PSI with 100 PSI maximum supply pressure.

The Switches have three electrical terminals: Normally Open, Normally Closed and Common. 0.1 and 4 AMP switches are available, 4 AMP switch is standard.

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 a 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.)





FEATURES

- Low Cost
- Subminiature Size
- High-Pressure Adjustment
- Low Differential
- Fast Response

SPECIFICATIONS

ELECTRICAL

Switch Action: Single pole, double throw

Electrical Rating: 4 AMP is standard, no accessory number required

Electrical Switch: UL Approved

Electrical Connections: .110" quick-connect terminal

MECHANICAL

Operating Speed: Activate or release in 25 milliseconds

Signal Pressure: 100 PSI maximum

Adjustment Range: 0.5 to 100 PSI, \pm 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

female internal threads

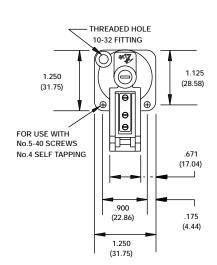
PORT CONNECTIONS

10-32 female threads.

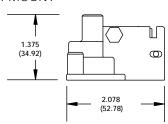
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

DIMENSIONS

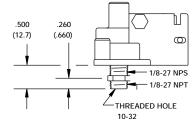
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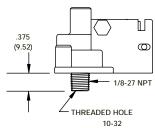
FLUSH MOUNT



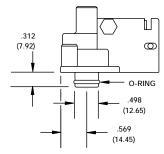
PANEL MOUNT



1/8 NPT MOUNT



MANIFOLD MOUNT



V-5300 Series Low Differential Vacuum Switch



The V-5300 Series Vacuum Switches interface from vacuum to electrical control circuits. Designed for a low difference between "ON" and "OFF" vacuum signal.

The switch is adjustable from 1 to 28" Hg with a 29.9" Hg maximum. The switches have three electrical terminals: Normally Open, Normally Closed and Common. 0.1 and 4 AMP switches are available. 4 AMP switch is standard.

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.)

<u>V-5300</u> –	- <u>5</u> – <u>F</u>	<u> </u>	<u> </u>	
Model Number	Adjustment Range	Mounting Style	Port Connection	Switch Selection
V-5300	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	1 429	4A -4 AMP
	10 -2 to 10" Hg	MM -Manifold Mount	B85- Barb for 1/8" I.D. Tubing	No Accessory Number required for a 4 AMP
	28 -3 to 28" Hg	PT-Pipe Thread Mount 1/8-27 NPT	No Accessory Number required for a B-80 Barb	



FEATURES

- Low Cost
- Subminiature Size
- Low Differential
- Fast Response

SPECIFICATIONS

ELECTRICAL

Switch Action: Single pole, double throw

Electrical Rating: 4 AMP is standard, no accessory number required

0.1 AMP is available

Electrical Switch: UL Approved

Electrical Connections: .110" 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

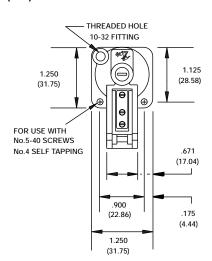
PORT CONNECTIONS

10-32 female threads.

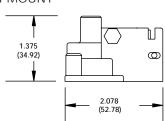
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

DIMENSIONS

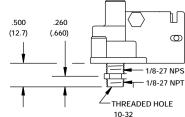
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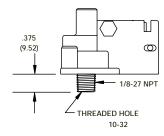
FLUSH MOUNT

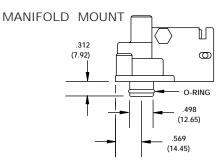


PANEL MOUNT



1/8 NPT MOUNT





F-5500 Series Solid State Pressure Switch

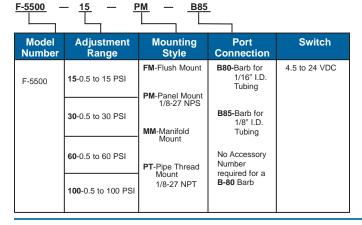


The F-5500 Series Solid State Pressure Switches interface from pressure to electrical control circuits.

The switch is adjustable from 0.5 to 100 PSI with 100 PSI maximum supply. The Solid State Switch combines precision mechanical switch operating convenience with solid state reliability. It uses the Hall sensor. An integrated circuit, actuated 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.

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
- High-pressure Adjustment
- 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 102241-1 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

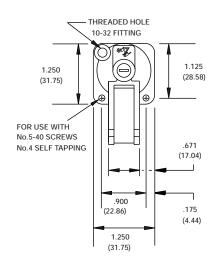
PORT CONNECTIONS

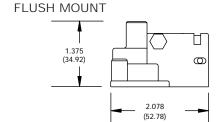
10-32 female threads.

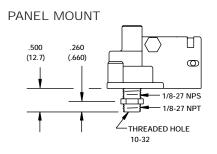
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

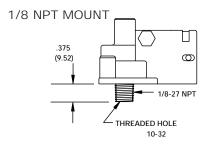
DIMENSIONS

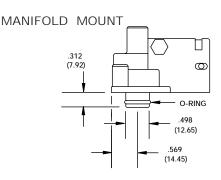
) = Metric Dimensions











V-5500 Series Solid State Vacuum Switch

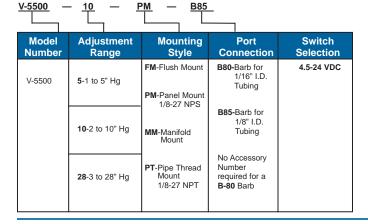


The V-5500 Series Solid State Vacuum Switches interface from vacuum to electrical control circuits.

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

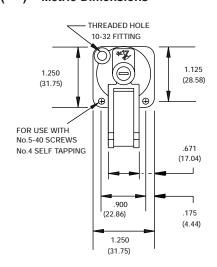
PORT CONNECTIONS

10-32 female threads.

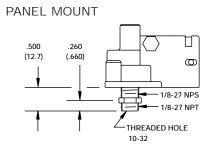
1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing.

DIMENSIONS

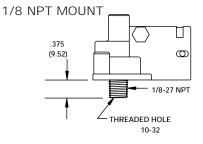
) = Metric Dimensions

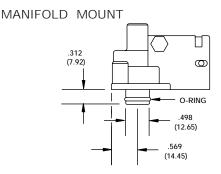


1.375 (34.92) 2.078 (52.78)



8





F-5700, F-5800 Series **Pressure Piloted** 3-Way Valve





FEATURES

- Subminiature Size
- Low Differential
- Fast Response

SPECIFICATIONS

Mechanical

Operating Speed: Activate or release in 65 milliseconds

Signal Pressure: 100 PSI maximum

Pilot Adjustment: 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

Pilot Input: 10-32 female threads

1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with 10-32 Barbed Fitting for

1/16" I.D. tubing

Instant push in fitting for 3/32" I.D. x 5/32" O.D. tubing Output:

ORDERING INFORMATION (Order by model number for Normally Open or Closed, Sensing Range, Mounting Style and Pilot Port Connection).

PM

an adjustable pressure pilot setpoint. The adjustable pressure pilot

can be set to sense pressure between .5 to 100 PSI. Maximum supply of 100 PSI. The 3-Way Valve is Normally Open or Normally

Closed. The Normally Open valve senses the adjusted pressure

es the adjusted pressure setpoint and turns the output on.

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;

cuit 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

pilot input is furnished with a B80 Barb, 10-32 Barbed Fitting for

1/16" I.D. tubing. The output has instant push in fittings for 5/32

setpoint and turns the output off. The Normally Closed valve sens-

Four mounting styles are available: The standard flush mount;

the manifold mount is designed to mount directly on pneumatic cir-

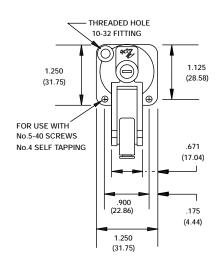
Model Number	Valve Operation	Sensing Range	Mounting Style	Port Connection
F-5700	Normally Open - Senses Pressure/ Turns Output	15 -0.5 to 15 PSI 30 -0.5 to 30 PSI	FM-Flush Mount PM-Panel Mount	B80- Barb for 1/16" I.D. Tubing
	OFF	60 -0.5 to 60 PSI	1/8-27 NPS MM-Manifold Mount	B85- Barb for 1/8" I.D. Tubing
F-5800	Normally Closed Senses Pressure/ Turns Output ON	100 -0.5 to 100 PSI	PT-Pipe Thread Mount 1/8-27 NPT	No Accessory Number required for a B-80 Barb

DIMENSIONS

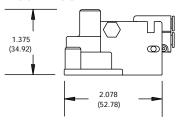
O.D. tubing.

F-5700 —

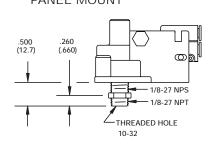
) = Metric Dimensions



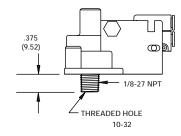
FLUSH MOUNT



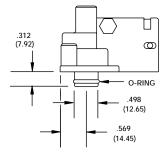
PANEL MOUNT



1/8 NPT MOUNT



MANIFOLD MOUNT



V-5700, V-5800 Series **Vacuum Piloted** 3-Way Valve





The V-5700, V-5800 Series Vacuum Piloted 3-Way Valve has an adjustable vacuum pilot setpoint. The adjustable vacuum pilot can be set to sense vacuum between 1 to 28" Hg. Maximum vacuum of 29.9" Hg. The 3-Way Valve is Normally Open or Normally Closed. The Normally Open valve senses the adjusted vacuum setpoint and turns the output off. The Normally Closed valve senses the adjusted vacuum setpoint and turns the output on.

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 pilot input is furnished with a B80 Barb, 10-32 Barbed Fitting for 1/16" I.D. tubing. The output has instant push in fittings for 5/32 O.D. tubing.

ORDERING INFORMATION (Order by model number for Normally Open or Closed, Sensing Range, Mounting Style and Pilot Port Connection).

Open - cuum/	.0 to 5" Hg	FM-Flush Mount PM-Panel Mount 1/8-27 NPS	B80- Barb for 1/16" I.D. Tubing
	3	1/8-27 NPS	
28 -3	.5 to 28" Hg	MM-Manifold Mount	B85- Barb for 1/8" I.D. Tubing
cuum/		PT-Pipe Thread Mount 1/8-27 NPT	No Accessory Number required for a B-80 Barb
	Closed cuum/ but ON	Closed cuum/	Mount Closed cuum/ but ON PT-Pipe Thread Mount

FEATURES

- Subminiature Size
- Low Differential
- Fast Response

SPECIFICATIONS

Mechanical

Operating Speed: Activate or release in 65 milliseconds

Signal Pressure: 100 PSI maximum Pilot Adjustment: 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

Pilot Input: 10-32 female threads

1/8-27 male tapered pipe threads with 10-32 female internal threads furnished with 10-32 Barbed Fitting for

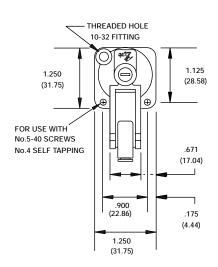
1/16" I.D. tubing.

Instant push in fitting for 3/32" I.D. x 5/32" O.D. tubing Output:

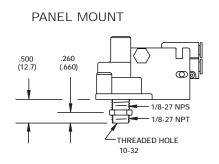
DIMENSIONS

<u>V-5700</u>

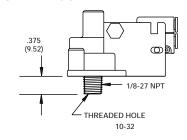
) = Metric Dimensions



FLUSH MOUNT 1.375 (34.92)2.078 (52.78)



1/8 NPT MOUNT



MANIFOLD MOUNT

