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F-5100 Series Subminiature Pressure Switch

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Features

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

The **F-5100 Series Subminiature Pressure Switches** interface from pressure to electrical control circuits; they are ideal for high pressure and low differential applications. The switches are adjustable 0.5 to 100 PSI with a maximum signal pressure of 100 PSI. Preset switches are also available.

The switches have three electrical terminals: Normally Open, Normally Closed and Common. 15 AMP switches are standard, other amperages are available; see chart below.

Four mounting styles are available: Flush Mount, Manifold Mount, Panel Mount, and Pipe Thread Mount. The Flush mount has .125" diameter mounting holes for mounting on a flat surface. The Manifold Mount is designed to mount directly on pneumatic circuit boards or manifold subplates; a Buna-N o-ring is supplied. The Panel Mount has a unique thread that goes from 1/8-27 tapered pipe thread to 1/8-27 straight pipe thread; a mounting nut is supplied. The Pipe Thread Mount has 1/8-27 tapered pipe threads.

The switches are provided with a B80 Barb, 10-32 UNF Barbed Fitting, for 1/16" I.D. tubing unless otherwise requested.

Electrical Specifications

Switch Action: Single pole, double throw
Electrical Rating: 15 AMP is standard; no selection number is required. 0.1 to 25 AMP

switches are available; see chart.
Electrical Switch: UL and CSA Approved, (UL# E12252 N) (CSA File # LR 41370)
Electrical Connections: .187" quick-connect terminal

Mechanical Specifications

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 degrees to 120 degrees F. (4 degrees to 49 degrees C.)

Materials

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

Port Connections

10-32 female threads, furnished with barbed fitting:

B80: 10-32 UNF Barbed Fitting for 1/16" I.D. tubing
B85: 10-32 UNF Barbed Fitting for 1/8" I.D. tubing
B86: 10-32 UNF Barbed Fitting for .170" I.D. tubing

Accessory Connections

F-5100-5-FT-3C: 5 Ft. - 5100 Wire Harness (20 gauge wire & 3 terminal connectors)
F-5100-10-FT-3C: 10 FT. - 5100 Wire Harness (20 gauge wire & 3 terminal connectors)

Mounting

Flush Mount: .125" diameter mounting hole; use No. 4 self-tapping or 5-40 screw
Manifold Mount: Two .125" diameter mounting holes; use No. 4 self-tapping or 5-40 screw. (A Buna-N o-ring is supplied)
Panel Mount: External 1/8-27 NPT to 1/8-27 NPS, internal threads are 10-32 UNF. 7/16" diameter mounting hole is required (A mounting nut is supplied)
Pipe Thread Mount: 1/8-27 male tapered pipe threads with 10-32 UNF internal threads

Other Information

F-5100 Part Number Selection

5100 Series Switch Dimensions ( ) = Metric Dimensions

Please order by Model Number, Adjustment Range, Mounting Style, Port Connection, and Switch Selection. (A B80 Barbed Fitting will be supplied if a Port Connection is not specified.)

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