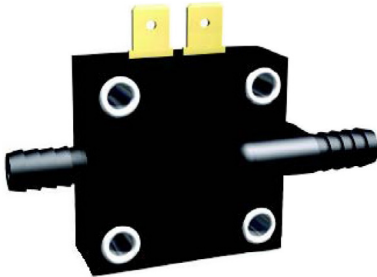


# Pressure Switches

## Miniature

**multicomp**PRO

**RoHS  
Compliant**



### Description

The rugged yet ultra-sensitive PSF100A pressure switch incorporates a patented dual diaphragm/dual contact design offering protection against false actuation due to shock and vibration.

### Features

- Patented shock and vibration resistance
- Miniature size, lightweight, low cost
- Quick response time
- Dependable long life (20+ million cycles)
- Gold contact points (dual)
- Rugged military standards (MIL-SPEC)

### Specifications

#### Mechanical

Standard Tolerance	: $\pm 20\%$ (tighter tolerances available)
Switch Type	: SPST normally open, double-make / double-break
Switching Medium	: Air, compatible fluids on "High" side
Mechanical Life	: More than 20 million cycles
Proof Pressure	: 8 psi : for units where set point is 3 inches H <sub>2</sub> O or less 15 psi : for units where set point is greater than 3 inches H <sub>2</sub> O 8 psi : for units with PTFE diaphragm
Shock and Vibration	: At zero pressure, will not make at 50 G's shock, will not make at 10 G's, 50 to 2,000 Hz vibration
Operating Temperature	: +40°F to +150°F (standard), -46°F to +205°F

#### Physical

Case Material	: Polycarbonate (other materials available)
Porting Options	: Two 200 inches diameter barbed ports (low / high) for use with 1/8 inches to 3/16 inches ID tubing
Diaphragm Material	: Polyurethane (PTFE optional)
Contact Points	: Gold (dual)
Electrical Connections	: Terminals - 0.187 inches $\times$ 0.02 inches tab-type, for use with quick disconnects (reference AMP 2-520182-2 or equivalent)
Mounting	: Eyeleted for #2 screws; mounting clip or bracket available
Weight	: Less than 10g

#### Electrical

Current Rating	: 40mA resistive for life in excess of 20 million cycles
Operating Voltage	: 30V AC / DC or less with resistive load; 120V AC neon lamp load

Note : For high load capabilities contact design flex for our SRF solid state relay

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**Specification Table**

Description	Inches H <sub>2</sub> O	mbar	psi	Part Number
Pressure switch, 0.004 - 0.018 psi	0.1 to 0.5	0.25 to 1.25	0.004 to 0.018	PSF100A-0.5
Pressure switch, 0.054 psi	1.5	3.73	0.054	PSF100A-1.5
Pressure switch, 0.108 psi	3	7.46	0.108	PSF100A-3.0
Pressure switch, 0.217 psi	6	14.92	0.217	PSF100A-6.0
Pressure switch, 0.361 psi	10	24.86	0.361	PSF100A-10.0
Pressure switch, 0.541 psi	15	37.3	0.541	PSF100A-15.0
Pressure switch, 1.804 psi	50	124.32	1.804	PSF100A-50.0

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