



MPL 9370 Series

Low Pressure Snap-Action Switch

World Leader in Pressure Switch and Sensor Design

The MPL 9370 Series switches encompass vacuum and differential pressure models capable of sensing very low set points. They switch electrical current up to 5A resistive. 2.5 inductive.

The MPL 9370 and MPL 9371 feature a unique integral snap switch, with positive snap action and self-wiping contacts for ultra-reliable switching. The molded post-cured silicone diaphragm converts very low pressure or vacuum into movement of an actuator disk, which operates the precious metal contacts.

The MPL 9370 Series have been subjected to rigorous life cycle and environmental testing, and are recognized by UL and CSA.

MPL has been a leading global supplier of pressure sensor & switches for over 35 years.

Features & Benefits

- Customer Engineered Solutions
- Variable Monitoring Configurations
- Fixed and Adjustable Set Points
- Variable Port Configuration
- Extreme Low Pressure
- Normally Open/Normally Closed
- Historically Proven Reliability

Technical Specifications

Body: glass-filled polyester.

Diaphragm: post-cured silicone rubber

Terminals:

6.35 mm x 0.81 mm,
4.75 mm x 0.81 mm and
4.75 mm x 0.51 mm copper alloy.

Contacts [9370]:

fine silver alloy,
point-and-dome

Contacts [9371]:

gold-platinum-silver alloy,
crossbar

Actuator: stainless steel

Springs: stainless steel, phosphor bronze

Operating Temperature:
-40° to 85°C (-40° to 185°F)

Humidity:
95% RH maximum, non-condensing

Operating Pressure: 40 Pa to 500 Pa

Maximum Pressure: 1500 Pa

Burst Pressure: 35 kPa minimum

Mechanical life: Over 1,000,000 cycles

Applications

- Air Proven
- Air Filter Monitoring
- Exhaust Monitoring
- Automation
- Pneumatic Equipment

Form: SPDT, SPNO, SPNC

Resistance: Initial: <50 milliOhms

Electrical life:

100,000 cycles min. at rated load.
Up to 500,000 cycles (consult factory.)

Electrical Ratings:

Model 9371:

200mA resistive @ 30 VAC (CE only)
100mA inductive @ 30 VAC (CE only)
0.5A pilot duty @ 24 VAC (UL, CSA)
1.0A resistive @ 24 VAC (UL, CSA)

Model 9370:

5A resistive @ 125 VAC
2.5A inductive @ 125 VAC

Recommended Mounting Position:

Diaphragm vertical.
Horizontal orientation is optional,
please consult factory for details.

Agency approvals:

UL, file number MH-16997
CSA, file number LR-50215
CE approval pending

ROHS Compliant