

SENSITIVE PRESSURE, VACUUM, OR DIFFERENTIAL PRESSURE SWITCHES

PSW20 Series



These sensitive single-pole switches can be used as pressure, vacuum, or differential switches.

SPECIFICATIONS

Approvals: UL recognized, CSA certified

Temperature: -30 to 65°C (-23 to 149°F)

Setpoint Accuracy: ±10% of setting at 21°C (70°F)

Note: Pressure settings may change over the temperature range.

Materials of Construction

Body: Acetal

Diaphragm: EPDM bonded to steel ring

Contacts: Gold-plated silver

Springs: Plated phosphor bronze

Terminals: Plated copper or brass

Pressure Connection:

Spout for 1/8 ID tubing

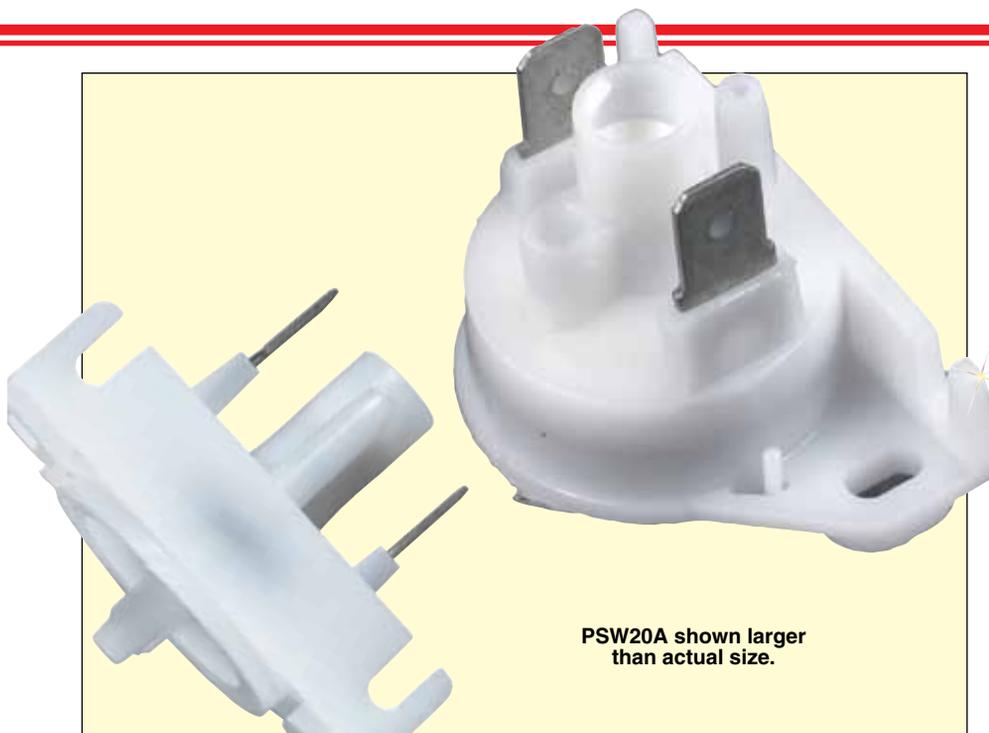
Adjusting Screw:

Stainless steel or zinc-plated steel; setting as shipped, 2 inH₂O negligible deadband

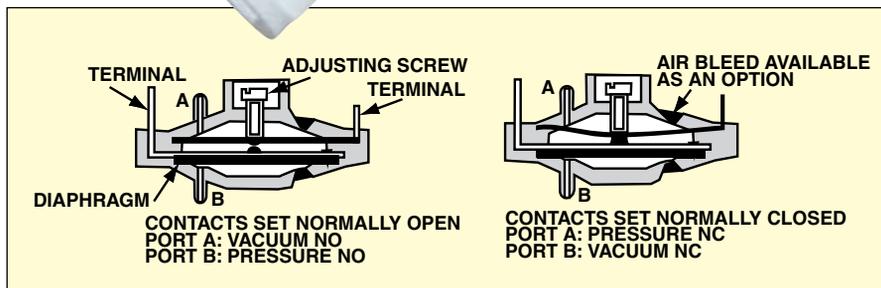
Media: Clean, dry, non-corrosive gases only

Note: The pressure media entering through port A are in direct contact with the electrical contacts in the switch. The media entering through port B are separated from the electrical contacts by the diaphragm.

Weight: 9 g (0.3 oz)



PSW20A shown larger than actual size.



Pressure Switching—Normally Open Contacts

Connect the pressure source to inlet port B, and set the adjusting screw to the desired pressure setpoint. Turning the screw clockwise narrows the gap between contacts and decreases the setpoint. Turning the screw counterclockwise increases the gap, thereby increasing the setpoint.

Pressure Switching—Normally Closed Contacts

Connect the pressure source to port A and monitor continuity across the terminals. Slowly turn the adjusting screw clockwise, narrowing the gap

between the contacts until the contacts are closed. Apply the setpoint pressure, which will open the contacts. Continue to turn the adjusting screw clockwise until the contacts make and break at the desired setpoint.

Vacuum Switching: Repeat above using port A for normally open contacts and port B for normally closed contacts.

To Order

MODEL NO.	PRESSURE RANGE	PROOF PRESSURE	SWITCH RATING 250 Vac
PSW20A	0.4 to 15 inH ₂ O	8 psig	750 mA (resistive)
PSW20B	1 to 20 inH ₂ O	8 psig	1 A (resistive)

Ordering Example: PSW20A, sensitive differential pressure switch adjustable from 0.4 to 15 inH₂O column. Custom switches and pre-fixed setpoint at customer-specified value available, 50 piece minimum order.