

PRESSURE AND VACUUM SWITCHES

COMPACT, RUGGED, PRE-FIXED SETPOINT

PSW27 Series PSW28 Series PSW29 Series



- ✓ UL Recognized, CSA Certified Up to 21 A
- ✓ Fixed Setpoint
- ✓ Pressure and Vacuum Models Available
- ✓ 1/8" NPT or Spout for 1/8" ID Tubing

These reliable, compact, single-pole switches are used in pressure and vacuum applications in which moderate accuracy is sufficient. The fixed setpoint is factory set.

SPECIFICATIONS

Approvals: UL recognized, CSA certified; microswitches bear the ENEC and CE mark

Temperature Range:
-10 to 75°C (14 to 167°F)

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

Note: Pressure settings may change over the temperature range.

Electrical: SPDT; see To Order chart on next page for amp rating, 250 Vac

Electrical Connection

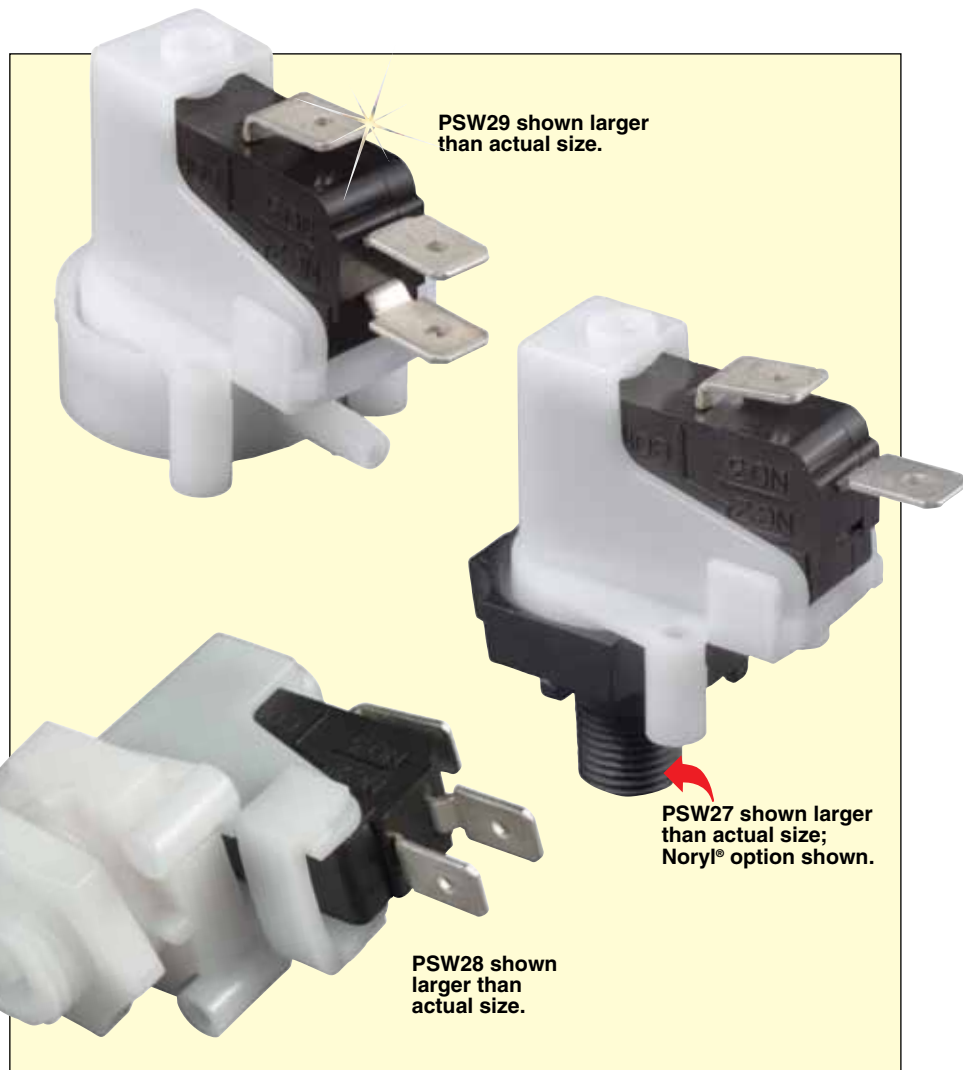
Terminals: 6.35 mm (0.25") standard "slide-on" male

Proof Pressure: Maximum system pressure, see To Order chart on next page

Materials of Construction

Body: Acetal

Diaphragm: EPDM (ethylene-propylene diene monomer)



Pressure Connection

PSW27: 1/8" MNPT

PSW28: Center spout for 1/8" ID tubing; provided with 1/8"-18 threaded mounting and tube lock nut

PSW29: Radial spout for 1/8" ID tubing; through-hole legs for mounting bolt

Proof Pressure: See To Order chart on next page

Hysteresis (Deadband)

Pressure Switches:

Approximately 25% of the setpoint

Vacuum Switches:

Approximately 30% of the setpoint

Note: Mineral oil and similar fluids are not compatible with EPDM. Request nitrile diaphragm (see "Custom Switches").

Media Compatibility: Air, water and many other fluids and gases that are compatible with EPDM and acetal

Weight: 0.6 oz (17 g)

Overall Dimensions:
45 x 51 x 25 mm (1.75 x 2 x 1")

CUSTOM SWITCHES

Custom pressure switches are available; 50 piece minimum order; consult Pressure Engineering for price and delivery

Custom Options:

Pre-fixed setpoints other than those in the tables

Body: Noryl® available on custom order (see photo of PSW27 above)

Diaphragm: Nitrile is available on custom order.

PRESSURE AND VACUUM SWITCHES

To Order			
PRESSURE SWITCHES PSW27 1/8 MNPT			
MODEL NO.	FIXED SETPOINT	PROOF PRESSURE	SPDT SWITCH RATING
PSW27-1P	1 psig	30 psig	10 A (resistive)
PSW27-2P	2 psig	50 psig	21 A (resistive)
PSW27-5P	5 psig	50 psig	21 A (resistive)
PSW27-10P	10 psig	50 psig	21 A (resistive)
PSW27-20P	20 psig	50 psig	21 A (resistive)
PSW27-30P	30 psig	80 psig	21 A (resistive)
PSW27-40P	40 psig	80 psig	21 A (resistive)
PSW27-50P	50 psig	80 psig	21 A (resistive)

VACUUM SWITCHES PSW27V 1/8 MNPT			
MODEL NO.	FIXED SETPOINT	PROOF PRESSURE	SPDT SWITCH RATING
PSW27V-25W	25 inWC Vac	300 inWC Vac	10 A (resistive)
PSW27V-30W	30 inWC Vac	300 inWC Vac	10 A (resistive)
PSW27V-40W	40 inWC Vac	300 inWC Vac	21 A (resistive)
PSW27V-50W	50 inWC Vac	300 inWC Vac	21 A (resistive)
PSW27V-75W	75 inWC Vac	350 inWC Vac	21 A (resistive)
PSW27V-100W	100 inWC Vac	350 inWC Vac	21 A (resistive)
PSW27V-150W	150 inWC Vac	350 inWC Vac	21 A (resistive)
PSW27V-200W	200 inWC Vac	350 inWC Vac	21 A (resistive)

Note: PSW27V vacuum switches have $\pm 20\%$ field adjustment. Inside the 1/8 NPT fitting, locate the set screw. Turning the set screw will adjust the setpoint approx. $\pm 20\%$. The setting is considered "NO-Tamper", because when installed, there is no access to this adjustment.

PRESSURE SWITCHES PSW28 Center Spout for 1/8 ID Tubing with 1/16-18 Threaded Mounting and Tube Lock Nut Included			
MODEL NO.	FIXED SETPOINT	PROOF PRESSURE	SPDT SWITCH RATING
PSW28-1P	1 psig	30 psig	10 A (resistive)
PSW28-2P	2 psig	50 psig	21 A (resistive)
PSW28-5P	5 psig	50 psig	21 A (resistive)
PSW28-10P	10 psig	50 psig	25 A (resistive)
PSW28-20P	20 psig	50 psig	25 A (resistive)
PSW28-30P	30 psig	80 psig	25 A (resistive)
PSW28-40P	40 psig	80 psig	25 A (resistive)
PSW28-50P	50 psig	80 psig	25 A (resistive)

PRESSURE SWITCHES PSW29 Radial Spout for 1/8 ID Tubing			
MODEL NO.	FIXED SETPOINT	PROOF PRESSURE	SPDT SWITCH RATING
PSW29-1P	1 psig	30 psig	10 A (resistive)
PSW29-2P	2 psig	50 psig	21 A (resistive)
PSW29-5P	5 psig	50 psig	21 A (resistive)
PSW29-10P	10 psig	50 psig	21 A (resistive)
PSW29-20P	20 psig	50 psig	21 A (resistive)
PSW29-30P	30 psig	50 psig	21 A (resistive)

Ordering Example: PSW27-10P, pressure switch with fixed setpoint at 10 psig, deadband of approx. 2.5 psig (25% of the fixed setpoint) with a 1/8 MNPT pressure port.