

NEMA 4X (IP66) PRESSURE SWITCH FOR HARSH OR CORROSIVE ENVIRONMENTS

Vacuum to 3000 psi

PSW-300 Series



- ✓ Low Pressure Ranges:
-30 inHg Vacuum to 150 inH₂O
- ✓ High Pressure Ranges:
15 to 3000 psi
- ✓ Buna-N or 316 SS Diaphragm
- ✓ 10 A SPDT Switch
- ✓ Tamper/Vibration-Resistant Setpoint Adjustment 20 to 100% of Range
- ✓ Fixed or Adjustable Deadband

Ideal for use in harsh and corrosive environments, the PSW-300 Series pressure switches feature stainless steel or Buna-N diaphragm-sealed pistons or diaphragm actuators that provide repeatability of $\pm 1\%$ of range. Standard design allows easy access to switches. For versatility, single setpoint with fixed deadband, single setpoint with adjustable deadband, or dual, independently adjustable setpoints can be chosen.

SPECIFICATIONS

Approvals: UL listed, CSA certified
Storage Temp: -29 to 66°C (-20 to 150°F)
Ambient Temp Limits: -29 to 66°C (-20 to 150°F); setpoint typically shifts +1% of range per 28°C (50°F) of temperature change.
Enclosure: NEMA 4X (IP66) and corrosion resistant
Setpoint Repeatability: $\pm 1\%$ of range
Switch Output: 1 or 2 SPDT switches can be wired "normally open" or "normally closed"

Electrical Rating:
 10 A: 125/250 Vac
 0.5 A: 125 Vdc
 0.25 A: 250 Vdc
 15 A: 125/250 Vac

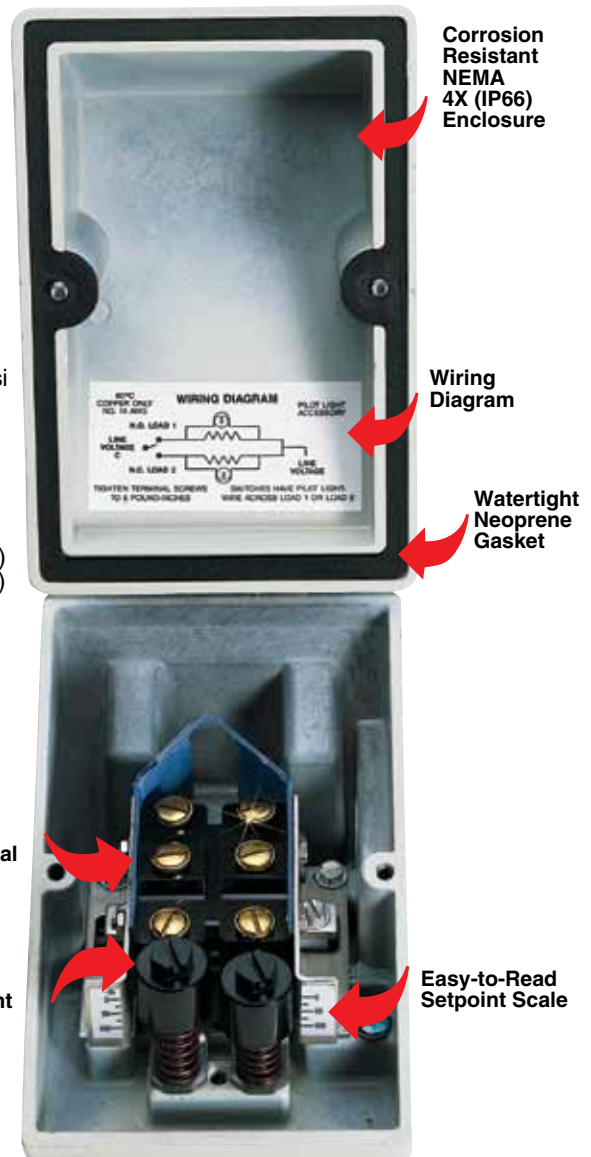
Enclosure: Epoxy-coated aluminum, gasketed
Weight: 0.9 kg (2 lb)
Electrical Connection: $\frac{3}{4}$ FNPT
Pressure Connection: $\frac{1}{4}$ FNPT; $\frac{1}{2}$ NPT male for vacuum to 600 psi; $\frac{1}{4}$ FNPT for 1000 and 3000 psi
Connection Material: Vac through inH₂O ranges: carbon steel; all psi ranges: 316 SS
Dimensions: 153 H x 105 W mm (6 x 4.125"); 95 mm D (3.75") for psi units; 114 mm D (4.5") for inH₂O units

Differential Pressure Models Available Visit Us Online



PSW-307, shown smaller than actual size.

$\frac{3}{4}$ NPT Conduct Connection



Corrosion Resistant NEMA 4X (IP66) Enclosure

Wiring Diagram

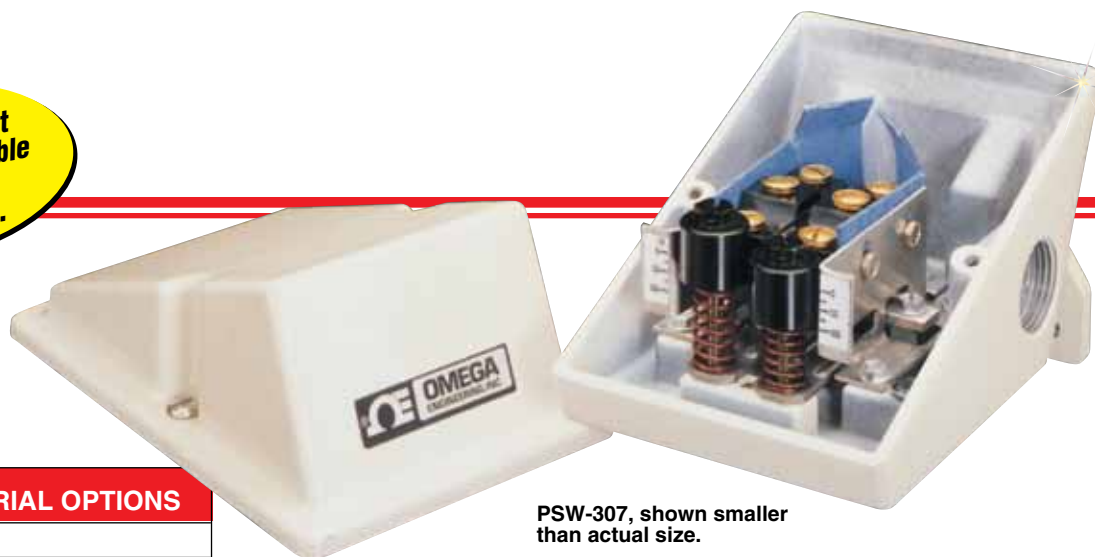
Watertight Neoprene Gasket

Screw Terminal Connections

Setpoint Adjustment

Easy-to-Read Setpoint Scale

See switch accessories, visit us online for audible alarms and relay modules.



PSW-307, shown smaller than actual size.

ACTUATOR MATERIAL OPTIONS

“-V”	FKM
“-SS”	Stainless Steel (psi ranges only)
“-M”	Monel® (psi ranges only)

To Order

MODEL NO.	ADJUSTABLE RANGE		DEADBAND STANDARD UNITS	PROOF PRESSURE	SWITCH
	STANDARD	METRIC			
FNPT SINGLE SETPOINT, ADJUSTABLE DEADBAND, BUNA-N DIAPHRAGM, O-RING, ¼ FNPT CONNECTION					
PSW-301	-6 to -30 inHg vac	-20 to -100 kPa	6 to 24	250 psi	10 A SPDT
PSW-302	6 to 30 inH ₂ O	1.5 to 7.5 kPa	4 to 27	20 psi	10 A SPDT
PSW-303	12 to 60 inH ₂ O	3 to 15 kPa	5 to 54	20 psi	10 A SPDT
PSW-304	30 to 150 inH ₂ O	7.4 to 37 kPa	18 to 135	20 psi	10 A SPDT
PSW-305	3 to 15 psi	20 to 100 kPa	2.5 to 13	500 psi	10 A SPDT
PSW-306	6 to 30 psi	40 to 200 kPa	3 to 18	500 psi	10 A SPDT
PSW-307	20 to 100 psi	140 to 700 kPa	10 to 90	1000 psi	10 A SPDT
PSW-308	40 to 200 psi	280 to 1400 kPa	18 to 180	1000 psi	10 A SPDT
PSW-309	80 to 400 psi	0.56 to 2.8 MPa	45 to 360	2400 psi	10 A SPDT
PSW-310	200 to 1000 psi	1.4 to 7 MPa	160 to 900	12,000 psi	10 A SPDT
PSW-311	600 to 3000 psi	4.2 to 21 MPa	400 to 2600	12,000 psi	10 A SPDT
FNPT DUAL SETPOINT, FIXED DEADBAND, BUNA-N DIAPHRAGM, O-RING, ¼ FNPT CONNECTION					
PSW-321	-6 to -30 inHg vac	-20 to -100 kPa	0.7 to 1.4	250 psi	Two 15 A SPDT
PSW-322	6 to 30 inH ₂ O	1.5 to 7.5 kPa	0.7 to 1.4	20 psi	Two 15 A SPDT
PSW-323	12 to 60 inH ₂ O	3 to 15 kPa	0.7 to 1.8	20 psi	Two 15 A SPDT
PSW-324	30 to 150 inH ₂ O	7.4 to 37 kPa	2.1 to 4.2	20 psi	Two 15 A SPDT
PSW-325	3 to 15 psi	20 to 100 kPa	0.7 to 1.4	500 psi	Two 15 A SPDT
PSW-326	6 to 30 psi	40 to 200 kPa	0.7 to 2.1	500 psi	Two 15 A SPDT
PSW-327	20 to 100 psi	140 to 700 kPa	1.4 to 3.5	1000 psi	Two 15 A SPDT
PSW-328	40 to 200 psi	280 to 1400 kPa	1.4 to 5.6	1000 psi	Two 15 A SPDT
PSW-329	80 to 400 psi	0.56 to 2.8 MPa	6 to 11	2400 psi	Two 15 A SPDT
PSW-330	200 to 1000 psi	1.4 to 7 MPa	10 to 42	12,000 psi	Two 15 A SPDT
PSW-331	600 to 3000 psi	4.2 to 21 MPa	42 to 98	12,000 psi	Two 15 A SPDT
FNPT DUAL SETPOINT, FIXED DEADBAND, 316 SS DIAPHRAGM, ¼ FNPT CONNECTION					
PSW-345	3 to 15 psi	20 to 100 kPa	0.7 to 1.4	500 psi	Two 15 A SPDT
PSW-346	6 to 30 psi	40 to 200 kPa	1.7 to 2.8	500 psi	Two 15 A SPDT
PSW-347	20 to 100 psi	140 to 700 kPa	2.8 to 5.6	1000 psi	Two 15 A SPDT
PSW-348	40 to 200 psi	280 to 1400 kPa	4.2 to 11.2	1000 psi	Two 15 A SPDT

Comes complete with operator's manual.

Pressure Switch Options (Add Suffix to Model Number for additional cost):

Hermetically sealed 5 A 125/250 Vac switch for extra protection in severe environments “-P”, single setpoint. “-PP”, dual setpoint.

Ordering Example: PSW-345-PP, dual hermetically sealed switches, range of 3 to 15 psi.