

COMPACT MODULAR PRESSURE SWITCHES

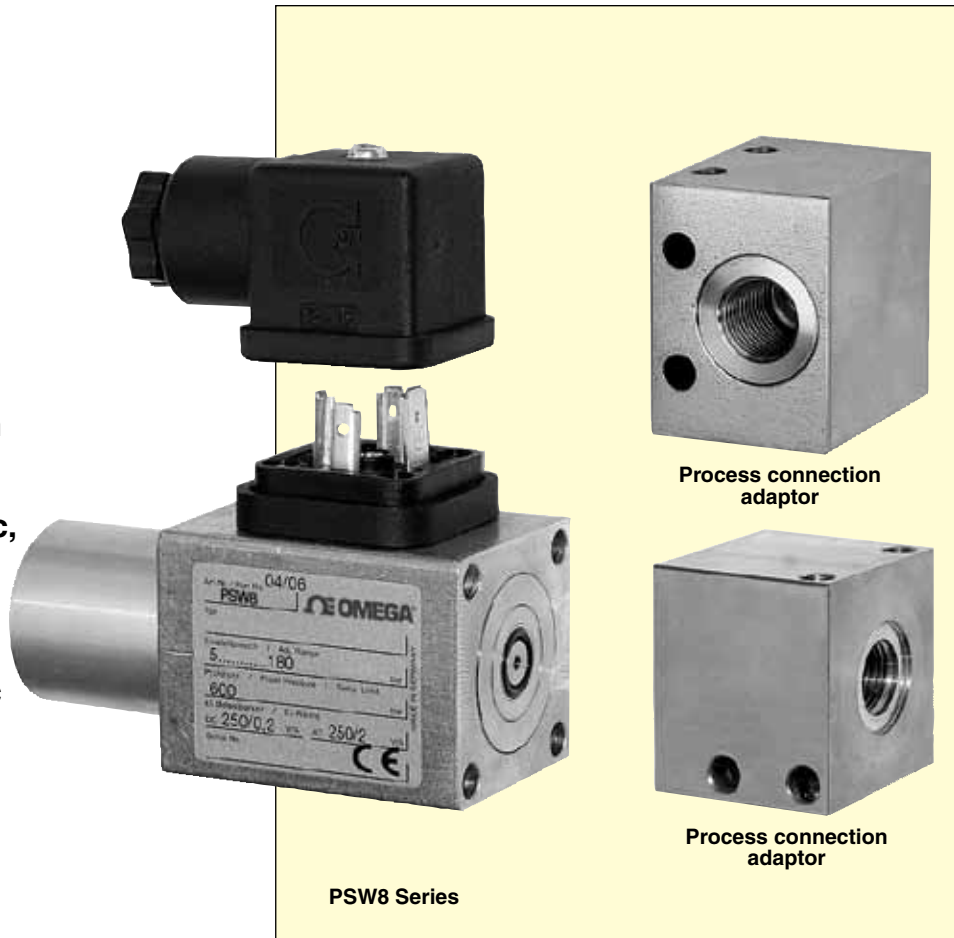


5.8 to 8700 psig
0.4 to 600 bar

PSW8 Series



- ✓ Easy Field Setting, with Hex 5 Allen Screw
- ✓ Silver Switch Contacts Rated for 3 A @ 250 Vac, 5 A @ 120 Vac or 0.4 A @ 120 Vdc
- ✓ Gold Switch Contacts Rated for 0.1 A @ 125 Vac, 0.1 A @ 30 Vdc
- ✓ DIN 43650A or M12 (M12 4-Pin Female Cable Assemblies Sold Separately)
- ✓ Modular Design Allows for Fast Delivery



PRESSURE SWITCHES **H**

OMEGA's new modular series general purpose pressure switches, offer a proven design for stationary or mobile hydraulic applications. Applications include factory automation, balers, compactors, overload controls, machine tools, hydraulic power packs, railway, and marine applications. PSW8 series is available in a wide range of configurations. Low pressure ranges feature a diaphragm pressure switch design. Higher pressure ranges feature a compact piston design. A SPDT micro switch will change state on increasing pressure at your set-point, and will reset when your pressure decreases back below the set-point by the amount of the deadband.

SPECIFICATIONS

Set-Point Repeatability:

Diaphragm Models: ±2% typical
Piston Models: ±1% typical

Setpoint Adjustment: Upon delivery, set-point is in the middle of the adjustable range. Turn adjustment screw CW to increase, and CCW to decrease.

Hysteresis/Deadband: Less than or equal to 15% of maximum adjustable range

Contact Rating:

1 Amp: Gold-plated 0.1 A @ 125 Vac, 0.1 A @ 30 Vdc
5 Amp: Silver 3 A @ 250 Vac, 5 A @ 120 Vac or 0.4 A @ 120 Vdc

Wiring:

Pin 1: Common
Pin 2: Normally closed
Pin 3: Normally open

Switching Frequency: Maximum 30/minimum for diaphragm models; maximum 60/minimum for piston models

Ambient Temperature Range:

Diaphragm Models: -20 to 80°C (-4 to 176°F)
Piston Models: -40 to 80°C (-40 to 176°F)

Wetted Parts:

Process Fitting: 304 SS
Housing: Aluminum die-cast 230
Seals and Diaphragms: See table, Buna-N or FKM. EPDM or Neoprene (available upon request, consult engineering)
Adjustment Screw: 300 SS (HEX5)

Approvals: UL/cULus(CSA)

Environmental: IP65

Shipping Weight: 620 g (1.36 lb)

OMEGA NUMBER CODING SYSTEM												
PSW8	-	A	A	5	D	B						
						SEAL MATERIAL						
						B	BUNA-N (NBR)					
						V	FKM					
						ELECTRICAL CONNECTION						
						D	DIN EN 175301-803 (DIN 43650) SIZE A, 6-8 mm CABLE					
						M	M12x21 CONNECTOR					
						LIMIT SWITCH						
						1	GOLD CONTACTS					
						5	SILVER CONTACTS					
						PRESSURE RANGE						
						ADJUSTABLE RANGES						
						DECREASING		INCREASING		PROOF PRESSURE		
						PSI	(bar)	PSI	(bar)	PSI	(bar)	
						A	5.8 - 82	(0.4-5.7)	8.7-87	(0.6-6.0)	1200	(80)
						B	29-246	(2.0-17)	45-290	(3.1-20)	1200	(80)
						C	43 - 600	(3.0-41)	60-650	(4.1-45)	1200	(80)
						D	43 - 2320	(3.0-160)	75-2610	(5-180)	8700	(600)
						E	430 - 4300	(30-300)	750-5000	(50-350)	8700	(600)
						F	800 - 7550	(55-520)	1200-8700	(80-600)	13050	(900)
						PRESSURE CONNECTION						
						A	1/4 NPT FEMALE					
						C	1/8 NPT FEMALE					
						E	7/16 -20 UNF (SAE-4 O-RING BOSS)					
						2	G 1/4 FEMALE					

Ordering Example: PSW8-AA5DV, pressure switch with 1/4 NPT female, pressure range (5.8 to 87 psi range) (0.4 to 6.0 bar) with FKM material and DIN 43650, electrical connection.

1 AMP

MODEL NO.	DECREASING PSI	DECREASING BAR	INCREASING PSI	INCREASING BAR	HYSTERESIS	PROOF PRESSURE PSI	PROOF BAR
PSW8-AA1DB	5.8 to 82	0.4 to 5.7	8.7 to 87	0.6 to 6.0	15%	1200	80
PSW8-AB1DB	29 to 246	2.0 to 17	45 to 290	3.1 to 20	—	1200	80
PSW8-AC1DB	43 to 600	3.0 to 41	60 to 650	4.1 to 45	—	1200	80
PSW8-AD1DB	43 to 2320	3.0 to 1607	5 to 2610	5 to 180	—	8700	600
PSW8-AE1DB	430 to 4300	30 to 300	750 to 5000	50 to 350	—	8700	600
PSW8-AF1DB	800 to 7550	44 to 520	1200 to 8700	80 to 600	—	13050	600

Comes complete with operator's manual.

5 AMP

MODEL NO.	DECREASING PSI	DECREASING BAR	INCREASING PSI	INCREASING BAR	HYSTERESIS	PROOF PRESSURE PSI	PROOF BAR
PSW8-AA5DB	5.8 to 82	0.4 to 5.7	8.7 to 87	0.6 to 6.0	15%	1200	80
PSW8-AB5DB	29 to 246	2.0 to 17	45 to 290	3.1 to 20	—	1200	80
PSW8-AC5DB	43 to 600	3.0 to 41	60 to 650	4.1 to 45	—	1200	80
PSW8-AD5DB	43 to 2320	3.0 to 1607	5 to 2610	5 to 180	—	8700	600
PSW8-AE5DB	430 to 4300	30 to 300	750 to 5000	50 to 350	—	8700	600
PSW8-AF5DB	800 to 7550	44 to 520	1200 to 8700	80 to 600	—	13050	600

Comes complete with operator's manual.