

SOLID STATE SWITCHES FOR HIGH-CYCLE APPLICATIONS

30 to 20,000 psi
Watertight Enclosure NEMA 4 (IP65)

PSW601 Series

- ✓ **Watertight, Corrosion-Resistant Case**
- ✓ **Thin-Film Sensor for Long, Stable Life—Minimum 1 Million Cycles at Rated Load**
- ✓ **Reliable in Industrial Environments**
- ✓ **Field Adjustable**

OMEGA's PSW601 Series switches are designed to provide long, stable life. They use a thin-film sensor with a minimum life of 1 million cycles. Solid state circuitry analyzes the signal from the sensor to activate the switch at the setpoint. Deadbands are adjustable from 0.1 to 95% of range, and status lights give a visual indication of switch status.

SPECIFICATIONS

Switch: UL SPDT switch

Electrical: 10 A, 125/250 Vac resistive and inductive; 10 A, 30 Vdc resistive

Temperature Limits:

-29 to 71°C (-20 to 160°F)

Temperature Effects: 2% FS/25°C

Repeatability: ±0.5% full range

Proof Pressure: See "To Order" chart

Deadband: Adjustable 0.1 to 95% of range

Power Requirements:

Standard: 24 Vdc, 12 mA unactivated; 43 mA activated

Optional: 110 to 120 Vac 50/60 Hz or 250 Vac 50/60 Hz

Enclosure: Anodized aluminum body; watertight, NEMA 4 (IP65)

Process Connection:

≤7500 psi: ¼ FNPT

>7500 psi: ¼ Aminco-F

Electrical Connections: ½ NPT conduit fitting with #18 AWG 450 mm (18") insulated wire leads

Wetted Parts: 316 SS fitting and 17-4 PH SS diaphragm

Dimensions: 144 H x 102 W x 59 mm D (5.7 x 4 x 2.3")

See switch accessories on omega.com for audible alarms and relay modules.

PSW601B-5K, shown smaller than actual size.

To Order

SETPOINT LIMITS (psi)	MODEL NUMBER	PROOF (psi)	BURST (psi)
STANDARD MODELS: 24 Vdc, SINGLE 10 A Switch			
3 to 30	PSW601B-30	120	480
3 to 60	PSW601B-60	120	480
5 to 100	PSW601B-100	200	800
10 to 200	PSW601B-200	400	1600
15 to 300	PSW601B-300	600	2400
25 to 500	PSW601B-500	1000	4000
35 to 750	PSW601B-750	1500	6000
50 to 1000	PSW601B-1K	2000	8000
100 to 2000	PSW601B-2K	4000	16,000
150 to 3000	PSW601B-3K	4500	9000
250 to 5000	PSW601B-5K	7500	15,000
375 to 7500	PSW601B-7.5K	9000	11,250
500 to 10,000	PSW601A-10K*	12,000	15,000
750 to 15,000	PSW601A-15K*	18,000	22,000
1000 to 20,000	PSW601A-20K*	24,000	30,000

* Process connection is a ¼" Aminco-F fitting. Comes complete with operator's manual.

For 110 Vac powered models, add suffix "-110VAC" to model number; no extra charge. For 250 Vac powered models, add suffix "-250VAC" to model number; add cost to price.

Ordering Example: PSW601B-100, 24 Vdc power, range of 5 to 100 psi and single 10 A switch.