

COMPACT SWITCHES FOR HAZARDOUS LOCATIONS

PRESSURE/VACUUM RANGES

Vacuum to 3000 psi
Watertight Enclosure
Class I, Division 1 UL Listed

PSW495 Series



- ✓ **Watertight, Corrosion-Resistant Case**
- ✓ **CSA Listed Switches**
- ✓ **Reliable in Harsh Environments**
- ✓ **Field Adjustable**

OMEGA's PSW495 series switches are designed to satisfy most industrial switch requirements. The actuators have been proved themselves in more than 20 years of service worldwide. The selection of seal materials and single or dual SPDT hermetically sealed switches meets most switching applications.

SPECIFICATIONS

Switch: CSA listed snap-action SPDT

Electrical:

Standard: Hermetically sealed: 11 A, 125/250 Vac; 5 A, 30 Vdc

Options: hermetically sealed gold contacts: 1 A, 125 Vac; narrow deadband: 5 A, 125/250 Vac

Process Temperature Range:

"B" - Buna-N: -18 to 66°C (0 to 150°F)

"V" - FKM: -7 to 149°C (20 to 300°F)

"S" - Stainless Steel Welded: -18 to 93°C (0 to 200°F)

Repeatability: ±1% Full Range

Proof Pressure: the greater of 1000 psi or 400% range

Deadband:

Buna-N: see "To Order" chart for approximate deadband

FKM: Multiply Buna-N by 1.4

Stainless Steel: Multiply Buna-N by 1.7

Enclosure: Anodized aluminum body
Process Connection: ½ FNPT
Electrical Connections: ½ NPT conduit fitting with #18 AWG 450 mm (18") insulated wire leads
Wetted Parts: 316 SS + seal material
Ambient Temperature Limits: -29 to 65°C (-20 to 150°F)
Dimensions: 156 H x 38 W x 38 mm D (6.4 x 1.5 x 1.5")
Weight: approximately 0.6 kg (1.32 lb)

OPTIONAL CONFIGURATIONS (For Additional Cost)

Narrow Deadband Switches:

add suffix "-P"

Dual SPDT Switches:

add suffix "-JJ"

FKM Actuator Seal: (vacuum to 1000 psi ranges) replace "B" in model number with "V", additional cost for psi ranges

PTFE Actuator Seal: (vacuum to 1000 psi ranges) replace "B" in model number with "T", additional cost for psi ranges

Welded Stainless Steel Actuator

Seal: (psi ranges to 1000) replace "B" in model number with "S"



PSW495B-100, shown smaller than actual size.

To Order

NOMINAL RANGE(1)	MODEL NO.	PROOF (PSI)	APPROXIMATE DEADBAND(2)
STANDARD MODELS: Buna-N Seal, SINGLE 11 A Switch			
30 inHg Vac	PSW495B-30Vac	1000	1.0 to 8.0
30 psi	PSW495B-30	1000	0.5 to 3.0
60 psi	PSW495B-60	1000	0.5 to 4.0
100 psi	PSW495B-100	1000	2.0 to 9.0
200 psi	PSW495B-200	1000	3 to 17
400 psi	PSW495B-400	1600	5 to 30
600 psi	PSW495B-600	2400	10 to 45
1000 psi	PSW495B-1K	4000	20 to 140
2000 psi	PSW495B-2K*	12000	100 to 200
3000 psi	PSW495B-3K*	12000	150 to 300

* Supplied with O-ring sealed piston actuator rather than diaphragm sealed actuator
 Comes complete with operator's manual.

Notes: (1) Switches may generally be set between 15 and 100% of nominal range; exception is stainless steel, whose limits are 20 to 100%. (2) Deadbands are for Buna-N in standard units as referenced in the nominal range column. See specifications for approximate deadbands of optional seals.

Ordering Example: PSW495T-100-JJ, PTFE diaphragm seal, range of 100 psi and dual hermetically sealed 11 A switches.