

Adjustable Temperature Switches



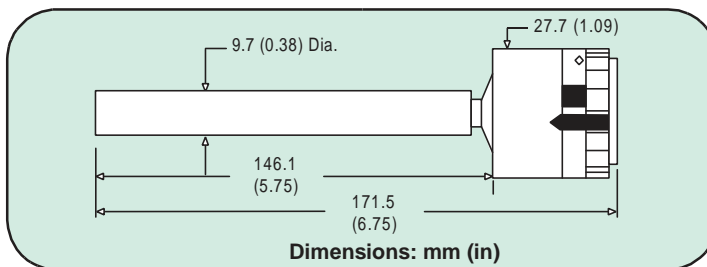
TSW Series
Starts at
\$434



TSW-11, \$448,
shown actual size.



- Compact and Economical**
- Ideal for Economical Temperature Switching Applications**
- External Temperature Scale for Easy Setpoint Adjustments**
- 1 A Gold Contacts for TTI and Dry Contact Closures**
- 5 A Silver Contacts for Larger Electrical Loads**
- Vibration Resistant**



□ MOST POPULAR MODELS HIGHLIGHTED!

OMEGA's TSW Series adjustable temperature switch is perfect for applications that require an economical solution to temperature control. The stainless steel stem of the TSW Series switch is sealed and filled with a gas that expands as process temperature rises. A membrane within the switch body mechanically causes closure of a 5 A Form "C" relay. The 9.7 mm (0.38") diameter of the probe is designed to mate with OMEGA's standard 385 Series thermowells for your most rugged applications. Please see Section B.

Specifications

Temperature Range: -43 to 266°C (-45 to 510°F)

Temperature Sensor: Limit filled, saturated vapor sensor

Ambient Temperature Limits for Switch Body: -55 to 105°C (-67 to 221°F)

Max System Temperature Capillary: 425°C (797°F)

Max System Pressure: 68.9 bar @ 425°C (1000 psi @ 798°F)

Electrical:

1 A Rated Contacts: 115 Vac/28 Vdc

5 A Rated Contacts: 250 Vac/28 Vdc

Max Switch Cycle Rate: Not to exceed 20 cycles per minute

Wiring Code: Black = common, white = normally open, red = normally closed

Construction Materials

Wetted Parts:

Temperature Sensor: 316 SS

Non-Wetted Parts:

Body: 303 SS

Lock Ring: Zinc alloy, chromate finish

Switch Housing: Zinc alloy, chromate finish

Caps and Accessories: Black valox and brass terminals

Indicator: 303 SS

Indicator Ring: Black nylon

Wire Interface: 3-wire pigtail, furnished 300 mm (12") long, 20 AWG insulated with PVC, 300 V rating

Weight: 113 g (0.25 lb)

To Order (Specify Model Number)

Model No.	Price	Temp. Range °C/°F	Rating (A)	Contact Repeatability °C/°F
TSW-11	\$448	-45 to -5 (-49 to 23)	1	±0.7 (1.3)
TSW-15	434	-45 to -5 (-49 to 23)	5	±0.7 (1.3)
TSW-21	448	-25 to 20 (-13 to 63)	1	±0.9 (1.6)
TSW-25	434	-25 to 20 (-13 to 63)	5	±0.9 (1.6)
TSW-31	448	-5 to 35 (23 to 95)	1	±0.8 (1.4)
TSW-35	434	-5 to 35 (23 to 95)	5	±0.8 (1.4)
TSW-41	448	25 to 70 (77 to 158)	1	±0.9 (1.6)
TSW-45	434	25 to 70 (77 to 158)	5	±0.9 (1.6)
TSW-51	448	55 to 105 (131 to 221)	1	±1.0 (1.8)
TSW-55	434	55 to 105 (131 to 221)	5	±1.0 (1.8)
TSW-61	448	80 to 125 (176 to 257)	1	±.9 (1.6)
TSW-65	434	80 to 125 (176 to 257)	5	±.9 (1.6)
TSW-71	448	115 to 175 (239 to 347)	1	±1.2 (2.2)
TSW-75	434	115 to 175 (239 to 347)	5	±1.3 (2.3)
TSW-81	448	175 to 230 (347 to 456)	1	±1.2 (2.1)
TSW-85	434	175 to 230 (347 to 456)	5	±1.2 (2.1)
TSW-91	448	200 to 265 (392 to 509)	1	±1.3 (2.4)
TSW-95	434	200 to 265 (392 to 509)	5	±1.3 (2.4)

Accessories

Model Number	Price	Description
3/4-385S-U21/2-304SS	\$62.00	Stainless steel thermowell
3/4-385S-U21/2-BRASS	46.20	Brass thermowell
SSLK-38-12	43.40	Stainless steel compression fitting
BRLK-38-12	15.40	Brass compression fitting

Comes with complete operator's manual.
Other thermowells available; see Section B.

Ordering Example: TSW-71, adjustable temperature switch with a 115 to 175°C (239 to 347°F) range, 1 A contact rating and 3/4-385S-U21/2-304SS, stainless steel thermowell, \$448 + 62 = \$510.



