

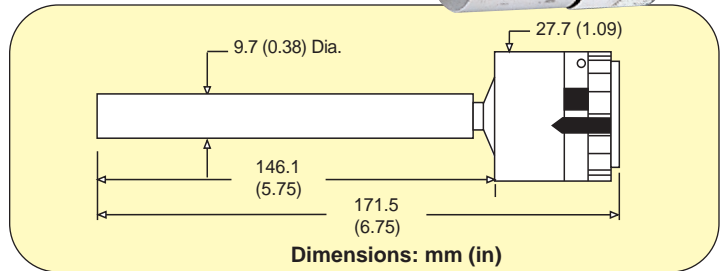
## ADJUSTABLE TEMPERATURE SWITCHES

TSW Series  
Starts at  
**\$155**



TSW-11, \$160, 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.

### 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	\$160	-45 to -5 (-49 to 23)	1	±0.7 (1.3)
TSW-15	155	-45 to -5 (-49 to 23)	5	±0.7 (1.3)
TSW-21	160	-25 to 20 (-13 to 63)	1	±0.9 (1.6)
TSW-25	155	-25 to 20 (-13 to 63)	5	±0.9 (1.6)
TSW-31	160	-5 to 35 (23 to 95)	1	±0.8 (1.4)
TSW-35	155	-5 to 35 (23 to 95)	5	±0.8 (1.4)
TSW-41	160	25 to 70 (77 to 158)	1	±0.9 (1.6)
TSW-45	155	25 to 70 (77 to 158)	5	±0.9 (1.6)
TSW-51	160	55 to 105 (131 to 221)	1	±1.0 (1.8)
TSW-55	155	55 to 105 (131 to 221)	5	±1.0 (1.8)
TSW-61	160	80 to 125 (176 to 257)	1	±.9 (1.6)
TSW-65	155	80 to 125 (176 to 257)	5	±.9 (1.6)
TSW-71	160	115 to 175 (239 to 347)	1	±1.2 (2.2)
TSW-75	155	115 to 175 (239 to 347)	5	±1.3 (2.3)
TSW-81	160	175 to 230 (347 to 456)	1	±1.2 (2.1)
TSW-85	155	175 to 230 (347 to 456)	5	±1.2 (2.1)
TSW-91	160	200 to 265 (392 to 509)	1	±1.3 (2.4)
TSW-95	155	200 to 265 (392 to 509)	5	±1.3 (2.4)

### Accessories

Model Number	Price	Description
3/4-385S-U21/2-304SS	\$22.00	Stainless steel thermowell
3/4-385S-U21/2-BRASS	16.50	Brass thermowell
SSLK-38-12	15.50	Stainless steel compression fitting
BRLK-38-12	5.50	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, \$160 + 22 = \$182.

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