Series WT

Environmentally Sealed Toggle Switches

GENERAL SPECIFICATIONS

Ratings

Electrical Capacity (Resistive Load): 10A @ 125V AC & 6A @ 250V AC or 10A @ 30V DC
Contact Resistance: 10 milliohms maximum for solder lug & screw terminal models
30 milliohms maximum for wire terminal models
Insulation Resistance: 200 megohms minimum @ 500V DC
Dielectric Strength: 1,500V AC minimum
Mechanical Life: 50,000 operations minimum for On-None-Off, On-None-On, & On-Off-On circuits
30,000 operations minimum for all other circuits
Electrical Life: 15,000 operations minimum
Angle of Throw: 24°

Materials & Finishes

Toggle: Brass with chrome plating
Bushing & Outer Case: Fiberglass reinforced polyamide
Inner Case: Melamine
Inner Sealing Ring: Nitrile butadiene rubber for On-None-Off, On-None-On, & On-Off-On circuits; silicone rubber for all other circuits
Outer Sealing Ring: Natural rubber
Movable Contactor: Copper with silver plating
Movable Contacts: Silver alloy plus copper with silver plating
Stationary Contacts: Silver alloy plus copper with silver plating
Terminals: Brass with silver plating
Wire Lead Covers: Heat resistant polyvinyl chloride (Leads are AWG 16.)

Environmental Data

Operating Temp Range: -30°C through +70°C (-22°F through +158°F)

Installation

Soldering Time & Temperature: 3 seconds @ 350°C

Standards & Certifications

Flammability Standards: UL94V-0 available
UL AWM 1015 & CSA TEW 105: See Engineering Particulars (previous page) for details on wire lead models.

TYPICAL SWITCH ORDERING EXAMPLE

WT **1** **2** **S**

POLES	
1	SPST SPDT
2	DPST DPDT

CIRCUITS			
1	ON	NONE	OFF
2	ON	NONE	ON
3	ON	OFF	ON
5	ON	NONE	(ON)
8	(ON)	OFF	(ON)
9	ON	OFF	(ON)
( ) = Momentary			

TERMINALS	
S	Solder Lug
T	Screw Lug
L	Wire Lead

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

WT12S

SPDT
ON-NONE-ON Circuit

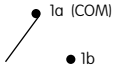
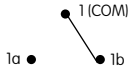
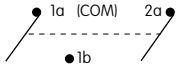
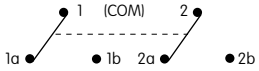
Solder Lug Terminals

■ Dimensions 1 ■ Dimensions 2

Series WT

Environmentally Sealed Toggle Switches

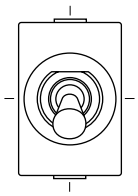
POLES & CIRCUITS

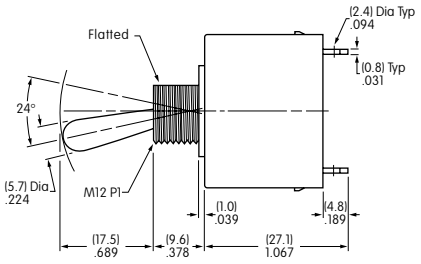
Pole	Model	Toggle Position ( ) = Momentary: Down (Flat)	Center	Up	Connected Terminals: Down (Flat)	Center	Up	Throw & Schematics
								Note: Terminal numbers are not actually on wire lead models.
SP	WT11	ON	NONE	OFF	1a-1b	OPEN	OPEN	SPST 
SP	WT12 WT13 WT15 WT18 WT19	ON ON ON (ON) ON	NONE OFF NONE OFF OFF	ON ON (ON) (ON) (ON)	1-1b	OPEN	1-1a	SPDT 
DP	WT21	ON	NONE	OFF	1a-1b 2a-2b	OPEN	OPEN	DPST 
DP	WT22 WT23 WT25 WT28 WT29	ON ON ON (ON) ON	NONE OFF NONE OFF OFF	ON ON (ON) (ON) (ON)	1-1b 2-2b	OPEN	1-1a 2-2a	DPDT 

TYPICAL SWITCH DIMENSIONS

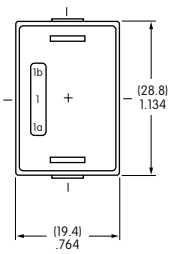
Single Throw • Solder Lug

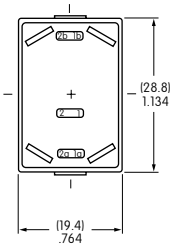
WT11S





Single Pole

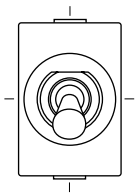


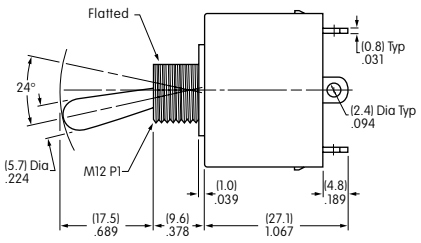


Double Pole

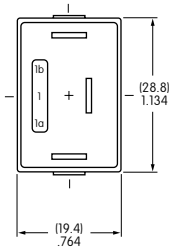
Double Throw • Solder Lug

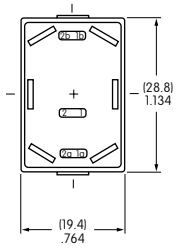
WT22S





Single Pole





Double Pole

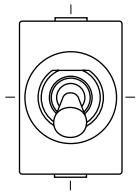
Series WT

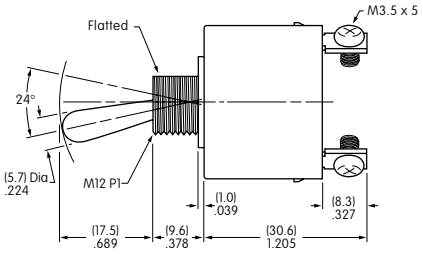
Environmentally Sealed Toggle Switches

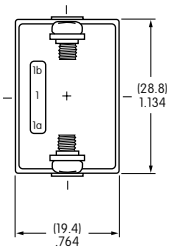
TYPICAL SWITCH DIMENSIONS

Single Throw • Screw Lug

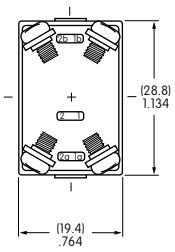
WT21T







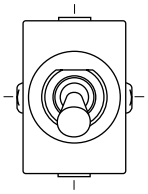
Single Pole

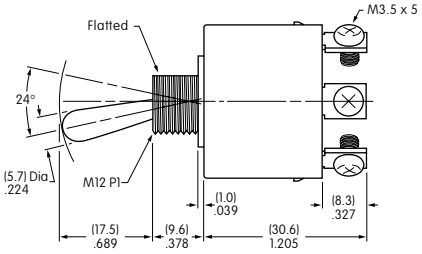


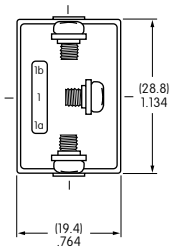
Double Pole

Double Throw • Screw Lug

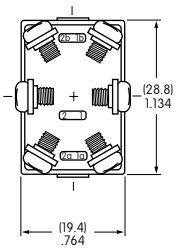
WT22T







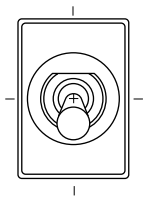
Single Pole

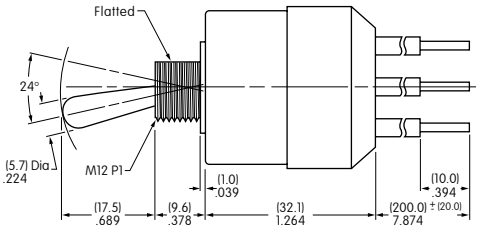


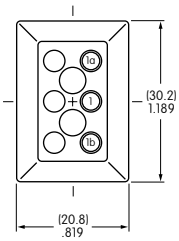
Double Pole

Single & Double Pole • Wire Lead

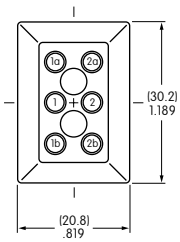
WT22L







Single Pole



Double Pole

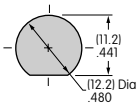
See wire lead table on Engineering Particulars page for specific details.

Standard Hardware, Optional Boot, & Panel Cutout

Every switch is supplied with Standard Hardware:
AT503 Hex Nut,
AT508 Locking Ring, and
AT401P O-ring.

AT402
Optional Waterproof Boot

Material:
Silicone Rubber



Panel Thickness
4.0mm (.157")