

Distinctive Characteristics

Single unit construction of the bushing and case gives added protection from environmental elements.

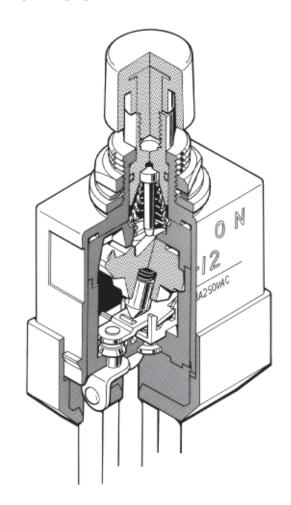
Specially designed contact mechanism for breaking light welds.

Minimal contact bounce is achieved with specially designed interlocked switching mechanism.

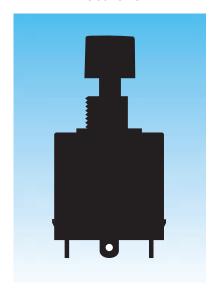
Outer housing of heat resistant resin meets UL 94V-0 flammability standard and provides high arc and tracking resistance.

Solder lug and screw terminal models meet IP67 of IEC529 Standards at front panel (dust tight and water protected for temporary immersion). Behind panel standard is IP60 (dust tight but not water protected).

Wire lead models conform fully to IP67 of IEC529 Standards at front and behind panel (dust tight and water protected for temporary immersion). These models are epoxy sealed at the switch base and covered by an outer case for further protection from dust, water, oil, and gas. (Switches cannot be operated under water or oil.)



Actual Size





General Specifications

Ratings

Electrical Capacity (Resistive Load): 6A @ 125V AC & 3A @ 250V AC or 6A @ 30V DC

> **Contact Resistance:** 10 milliohms maximum for solder lug & screw terminal models

> > 30 milliohms maximum for wire lead terminal models

Insulation Resistance: 200 megohms minimum @ 500V DC **Dielectric Strength:** 1,500V AC minimum for 1 minute minimum

Mechanical Life: 30,000 operations minimum **Electrical Life:** 15,000 operations minimum

Contact Timing: Break before make

Materials & Finishes

Plunger: Brass with nickel plating

Bushing & Outer Case: Fiberglass reinforced polyamide (UL94V-0 outer case)

Inner Case: Melamine **Inner Sealing Ring:** Silicone rubber **Outer Sealing Ring:** Natural rubber

Movable Contactor: Copper with silver plating

Movable Contacts: Silver alloy plus copper with silver plating Silver alloy plus copper with silver plating **Stationary Contacts:**

Brass with silver plating for screw lug models; Terminals:

copper with tin plating for solder lug & wire lead models 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)

> 90 ~ 95% humidity for 96 hours @ 40°C (104°F) **Humidity:**

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range

& returning in 1 minute; 3 right angled directions for 2 hours

Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Soldering Time & Temperature: 3 seconds @ 350°C

Standards & Certifications

Flammability Standards: UL94V-0 outer case

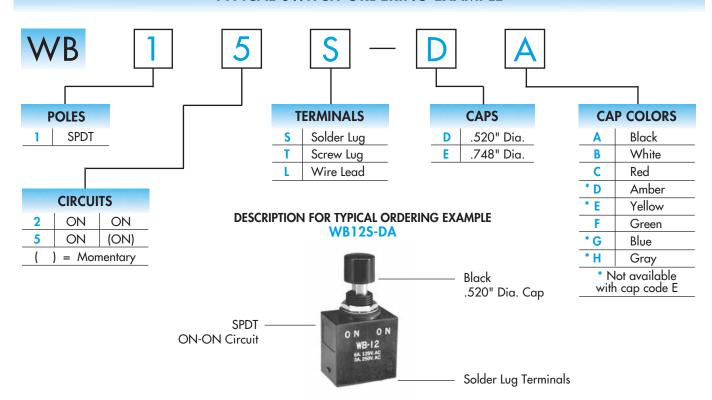
Wiring Material Standards: UL AWM 1015 Recognized at Flammability VW-1;

Temp Range -20° C $\sim +105^{\circ}$ C; Max Load 600V; AWG16.

CSA TEW 105 Certified at Temp Range -20°C ~ +105°C; Max Load 600V







POLES & CIRCUITS										
	Actuator Position () = Momentary			Connected Terminals		Throw & Schematics				
Pole	Model	Normal Flat	Down	Normal Flat	Down	Note: Terminal numbers are not actually on wire lead models.				
SP	WB12	ON	ON	1-1b	1-1a	1 (COM)				
SP	WB15	ON	(ON)	1-1b	1-1a	SPDT la • 1b				

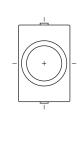
STANDARD WIRE COLOR SCHEME

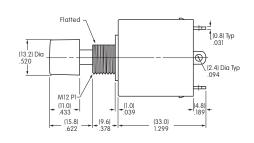
Wire leads are covered with heat resistant vinyl in accordance to UL 1015 and CSA TEW 105 Standards for Appliance Wiring Material (AWM).

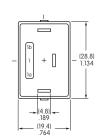
Terminal Numbers & Wire Colors						
Models	1a 1		1b			
WB12L, WB15L	White	Black	Red			

TYPICAL SWITCH DIMENSIONS











Panel Thickness 4.0mm (.157")

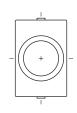


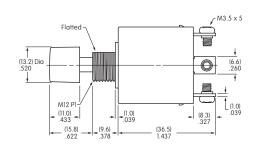


TYPICAL SWITCH DIMENSIONS

Screw Lug







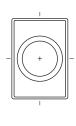


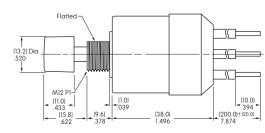


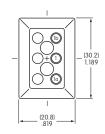
Panel Thickness 4.0mm (.157")

Wire Lead











Panel Thickness 4.0mm (.157")

CAPS & CAP COLORS



AT414 .520" Diameter

Colors Available: ABCDEFGH

Material: PBT Finish: Glossy





AT412 .748" Diameter

Colors Available: ABCF

Material: Polystyrene Finish: Glossy



Cap Color Codes:















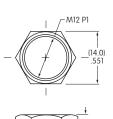


STANDARD HARDWARE

AT503M **Hex Face Nut**

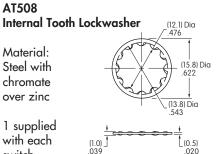
Material: Brass with tin plating

1 supplied with each switch



Material: Steel with chromate over zinc

1 supplied with each switch



AT401P O-ring

Material: Natural rubber

1 supplied with each switch

