

# Distinctive Characteristics

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

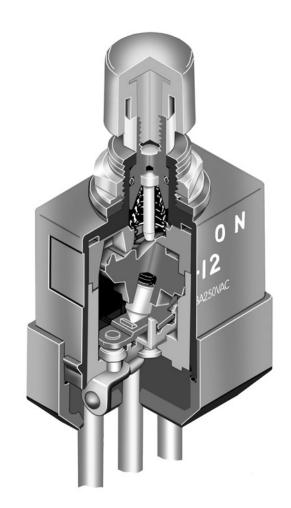
Specially designed contact mechanism for breaking light welds.

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

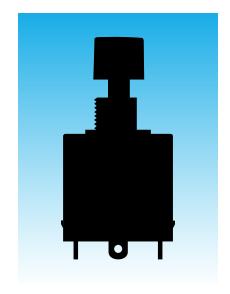
Outer housing of heat resistant resin meets UL 94V-0 flammability standard and provides high arc and tracking resistance.

Solder lug and screw terminal models meet IP67 of IEC60529 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 IEC60529 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 and water (not operable under water).



Actual Size





# General Specifications

# **Electrical Capacity (Resistive Load)**

6A @ 125V AC & 3A @ 250V AC or 6A @ 30V DC Power Level:

Other Ratings

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

30 milliohms maximum for wire lead terminal models

200 megohms minimum @ 500V DC **Insulation Resistance:** 

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

Alternate Action .177" (4.5mm); Momentary Action .110" (2.8mm) Total Travel:

**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 Natural rubber **Outer Sealing Ring:** 

**Movable Contactor:** Copper with silver plating Silver alloy with silver plating **Movable Contacts:** Silver alloy with silver plating **Stationary Contacts:** 

> Terminals: Brass with silver plating for screw lug models;

> > brass with tin plating for solder lug & wire lead models Heat resistant polyvinyl chloride (Leads are AWG 16.)

Wire Lead Covers:

**Environmental Data** 

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

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

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/s<sup>2</sup>) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

**Mounting Torque:** 1.5Nm (13 lb•in)

Manual Soldering: See Profile A in Supplement section. Soldering Time & Temp:

**Standards & Certifications** 

Flammability Standards: UL94V-0 outer case

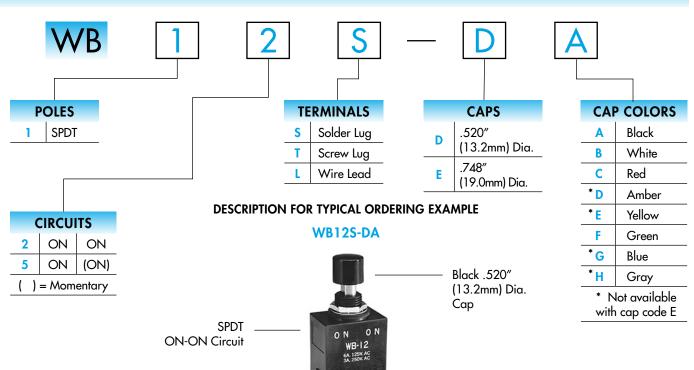
Wiring Material Standards: UL AWM 1015 Recognized at Flammability VW-1;

> Temperature Range -20°C ~ +105°C; Maximum Load 600V; AWG 16 CSA TEW 105 Certified at Temperature Range -20°C ~ +105° C;

Maximum Load 600V







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		Actuator Position	( ) = Momentary	Connected	d Terminals	Throw & Schematics
Pole	Model	Normal Flat	Down	Normal Flat	Down	Note: Terminal numbers are not actually on wire lead models.
SP SP	WB12 WB15	ON ON	0 20 2 Z	1-1b 1-1b	1-1a 1-1a	SPDT 1 (COM)

#### STANDARD WIRE COLOR SCHEME

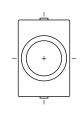
Wire leads are covered with heat resistant vinyl in accordance to UL 1015 and CSA TEW 105 Standards for Appliance Wiring Material (AWM).

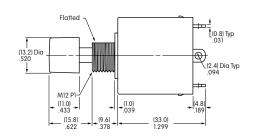
Termina	Numbers & Wire Colors					
Models	1a	1	1b			
WB12L, WB15L	White	Black	Red			

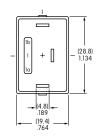
Solder Lug Terminals

## TYPICAL SWITCH DIMENSIONS









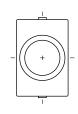


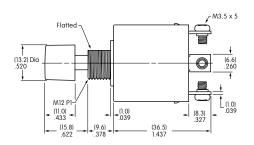
Panel Thickness .157" (4.0mm)

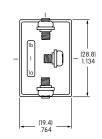
# TYPICAL SWITCH DIMENSIONS

#### **Screw Lug**









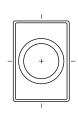


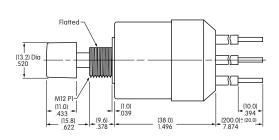
Panel Thickness .157" (4.0mm)

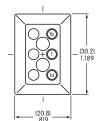
WB12T-DA

#### Wire Lead











Panel Thickness .157" (4.0mm)

WB12L-DA

## **CAPS & CAP COLORS**



.520" (13.2mm) Diameter

Colors Available: ABCDEFGH

Material: PBT Finish: Glossy





.748" (19.0mm) Diameter

Colors Available: ABCF

Material: Polystyrene Finish: Glossy



**Cap Color** Codes:





White





Amber









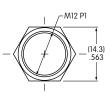
Gray

#### STANDARD HARDWARE

#### AT503M **Hex Face Nut**

Material: Brass with chrome plating



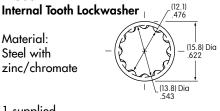




Material:

Steel with

zinc/chromate





# AT401P O-ring

Material: Natural rubber



