

Distinctive Characteristics

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

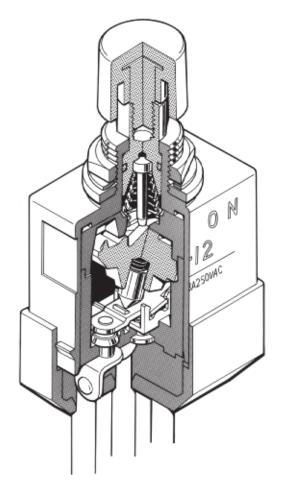
Specially designed contact mechanism for breaking light welds.

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

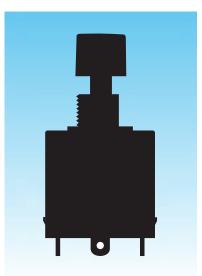
Outer housing of heat resistant resin meets UL 94V-0 flammability standard and provides high arc and tracking resistance.

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		
Stationary Contacts:	Silver alloy plus copper with silver plating		
Terminals:	Brass with silver plating for screw lug models;		
	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)
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 ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Soldering Time & Temperature: 3 seconds @ 350°C

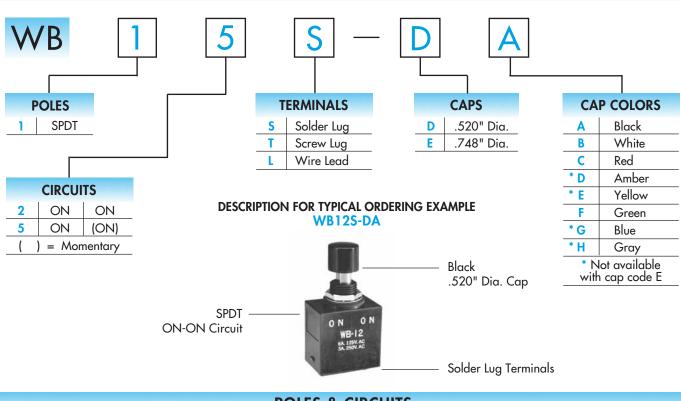
Standards & Certifications

Flammability Standards:UL94V-0 outer caseWiring Material Standards:UL AWM 1015 Recognized at Flammability VW-1;
Temp Range -20°C ~ +105°C; Max Load 600V; AWG16.

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



TYPICAL SWITCH ORDERING EXAMPLE



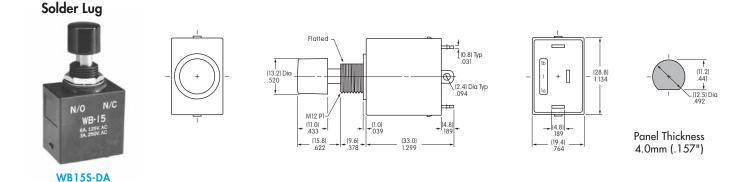
POLES & CIRCUITS Throw & Schematics Actuator Position () = Momentary **Connected Terminals** Normal Down Normal Down Note: Terminal numbers are not Flat_ Flat _ Pole Model actually on wire lead models. 1 (COM) ON 1-1b 1-1a SP **WB12** ON SPDT SP **WB15** ON (ON) 1-1b 1-1a 1a 🖷 🔶 1b

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					
WB12L, WB15L					

TYPICAL SWITCH DIMENSIONS





TYPICAL SWITCH DIMENSIONS

