imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Distinctive Characteristics

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

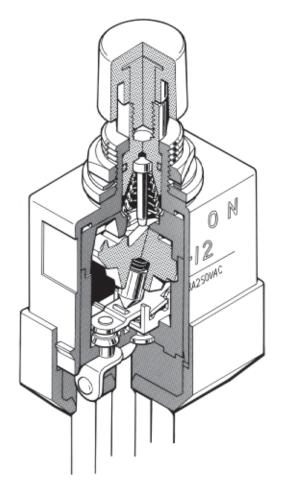
Specially designed contact mechanism for breaking light welds.

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

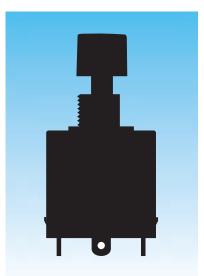
Outer housing of heat resistant resin meets UL 94V-0 flammability standard and provides high arc and tracking resistance.

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

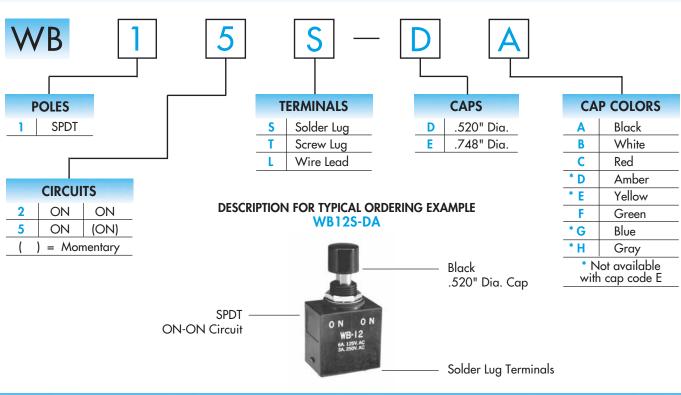
Standards & Certifications

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

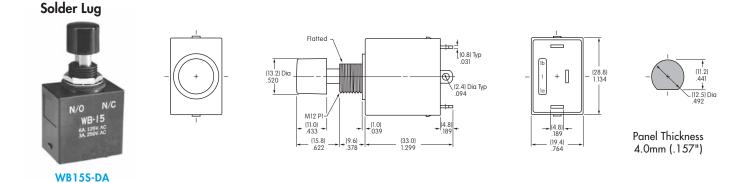
Actuator Position () = Momentary		Connected Terminals		Throw & Schematics		
Pole	Model	Normal ^{Flat}	Down	Normal	Down	Note: Terminal numbers are not actually on wire lead models.
SP	WB12	ON	ON	1-1b	1-1a	
SP	WB15	ON	(ON)	1-1b	1-1a	SPDT

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





TYPICAL SWITCH DIMENSIONS

