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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

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

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

Materials & Finishes

Plunger: Brass with nickel plating

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

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

Outer Sealing Ring: Nitrile butadiene rubber **Movable Contactor:** Copper with silver plating **Movable Contacts:** Silver alloy with silver plating **Stationary Contacts:** Silver alloy with silver plating

Terminals: Brass with tin plating

Wire Lead Covers: Heat resistant polyvinyl chloride (Leads are AWG 16.)

Environmental Data

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

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

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

Installation

Mounting Torque: 1.5Nm (13 lb•in)

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

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



Distinctive Characteristics

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

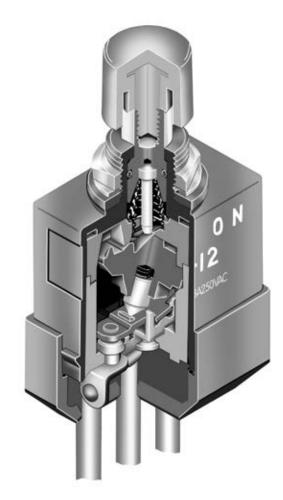
Specially designed contact mechanism for breaking light welds.

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

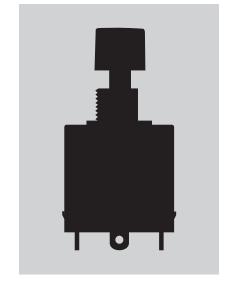
Outer housing of heat resistant resin meets UL 94V-0 flammability standard and provides high arc and tracking resistance.

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





TYPICAL SWITCH ORDERING EXAMPLE **Poles** Circuits **Cap Colors Terminals** Caps **SPDT** 2 ON ON S .520" Black Solder Lug Α (13.2mm) Dia. White 5 ON (ON) Τ Screw Lug В .748" L C Red) = Momentary Wire Lead Ε (19.0mm) Dia. * D Amber * E Yellow **DESCRIPTION FOR** F Green TYPICAL ORDERING EXAMPLE * G Blue Black .520" (13.2mm) WB12S-DA Diameter Cap * H Gray * Not available with cap code E **SPDT** WB-12 公認XX

POLES & CIRCUITS										
	Actuator Position () = Momentary Connected Terminals		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	ON (ON)	1-1b 1-1b	1-1a 1-1a	SPDT 1 (COM)				

Solder Lug Terminals

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).

ON-ON Circuit

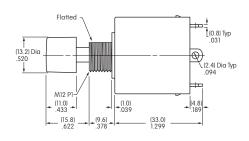
Termina	Terminal Numbers & Wire Colors						
Models	1a	1	1b				
WB12L, WB15L	White	Black	Red				

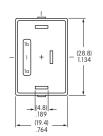
TYPICAL SWITCH DIMENSIONS

Solder Lug









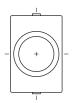


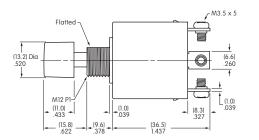
Panel Thickness .157" (4.0mm)

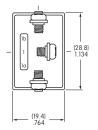




TYPICAL SWITCH DIMENSIONS









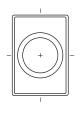
Panel Thickness .157" (4.0mm)

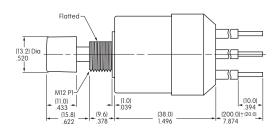


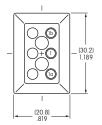
Screw Lug

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





-M12 P1















Codes:







White







STANDARD HARDWARE













AT503M Hex Face Nut

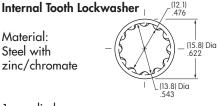
Material: Brass with chrome plating



AT508

Material: Steel with zinc/chromate

1 supplied with each switch

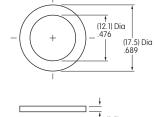




AT401P O-ring

Material: Nitrile butadiene rubber

1 supplied with each switch



1 supplied

with each

switch