

General Specifications

Toggles

Rockers
B

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

Electrical Capacity (Resistive Load)

Power Level: 9A @ 125V AC

Other Ratings

Contact Resistance:	20 milliohms maximum
Insulation Resistance:	500 megohms minimum @ 500V DC
Dielectric Strength:	1,500V AC minimum between contacts for 1 minute minimum; 3,000V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	30,000 operations minimum
Electrical Life:	10,000 operations minimum
Nominal Operating Force:	10.0N
Angle of Throw:	30°

Materials & Finishes

Rocker:	Polycarbonate
Housing:	Polyamide
Movable Contactor:	Beryllium copper with silver plating
Movable Contacts:	Silver alloy
Stationary Contacts:	Silver alloy
Switch Terminals:	Brass with silver plating
Lamp Terminals:	Brass with silver plating

Environmental Data

Operating Temp Range:	-20°C through +85°C (-4°F through +185°F)
Humidity:	90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration:	10 ~ 55Hz with peak-to-peak amplitude of 0.75mm 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 & Temp: Manual Soldering: See Profile B in Supplement section.

Standards & Certifications

UL:	File No. E44145 9A @ 125V AC Markings on case are standard.
CSA:	File No. 0701166_0_000 9A @ 125V AC Markings on case are standard.

Distinctive Characteristics

Full face, Neon illumination in choice of red, amber, or green.

Neon lamp suited to 125V AC applications.

9-amp electrical capacity in compact body.

Built-in resistor for direct connection to 125V AC power source.

Low cost molded rocker.

Front panel, snap-in mounting assures labor-saving installation.

Single-break, snap-acting contact mechanism gives smooth actuation and audible feedback.

Quick-make, quick-break characteristic limits arcing and prolongs electrical life.

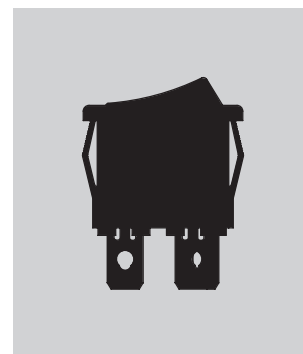
Stable stationary contact construction for high reliability.

Offset terminal alignment gives outstanding insulation resistance and dielectric strength.

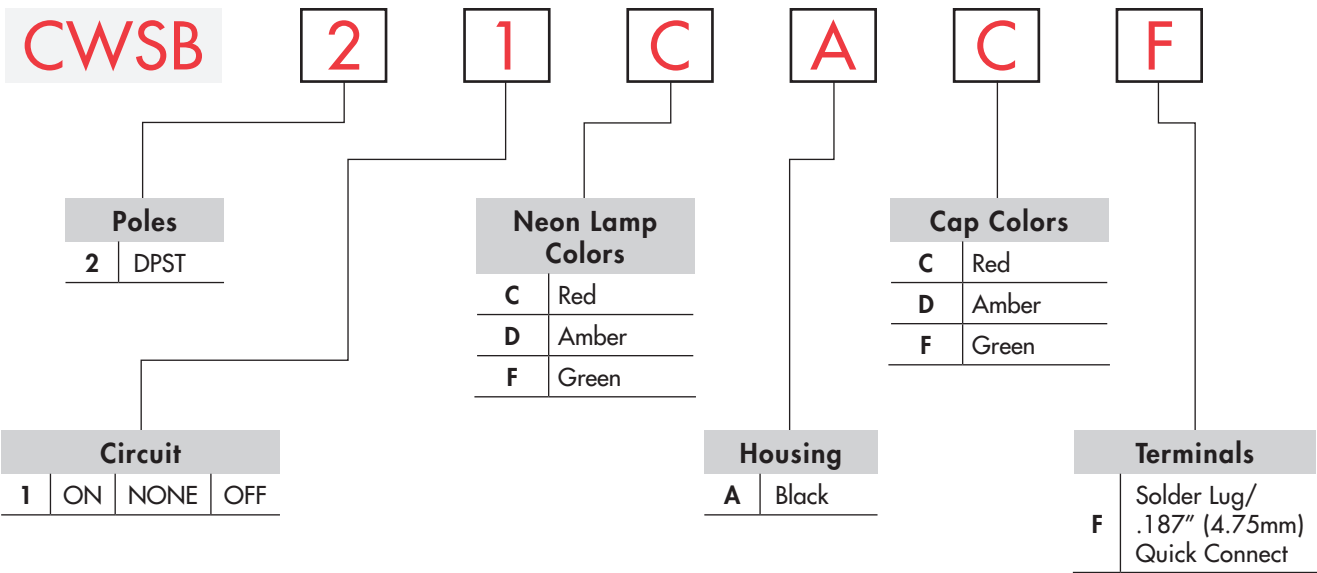
Solder lug/.187" quick connect terminals can be used with connectors.



Actual Size



TYPICAL SWITCH ORDERING EXAMPLE

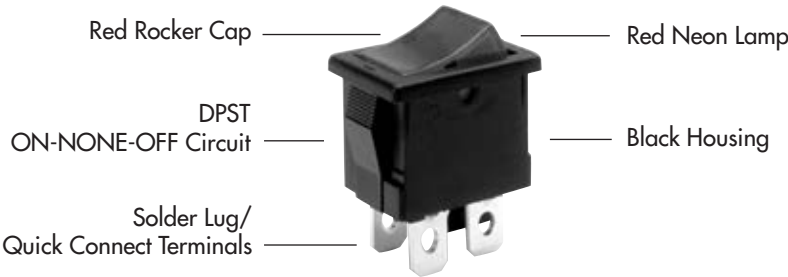


IMPORTANT:

Switches are supplied with UL & CSA markings on the case. Specific models & ratings noted on the General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

CWSB21CACF



POLE & CIRCUIT

		Rocker Position			Connected Terminals			Throw & Switch/Lamp Schematic
Pole	Model	Down	Center	Up	Down	Center	Up	Note: Terminal numbers "1a" & "2a" are actually on the switch.
DP	CWSB21	ON	NONE	OFF	1-1a 2-2a	OPEN	OPEN	DPST

NEON LAMP COLORS & SPECIFICATIONS

The Neon lamp is factory assembled and not available separately. The lamp circuit is synchronous to switching circuit.

The electrical specifications shown are determined at a basic temperature of 25°C.

Values for the built-in resistors are given in the accompanying table.

		Colors		
		<div>C</div> Red	<div>D</div> Amber	<div>F</div> Green
Voltage	V	125V AC	125V AC	125V AC
Internal Series Resistance		33K ohms	33K ohms	68K ohms
Current	I	1.4mA	1.4mA	0.6mA
Endurance	Hours	15,000	15,000	8,000

HOUSING

A

 Black Housing with Snap-in Mounting

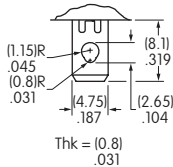
On Off (I O) symbols are molded on the bezel.



TERMINALS

F

 Solder Lug/.187" (4.75mm) Quick Connect



CAP COLOR CODES

Cap Colors Available

C

 Red

D

 Amber

F

 Green

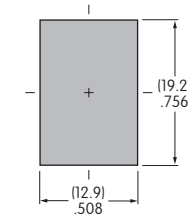
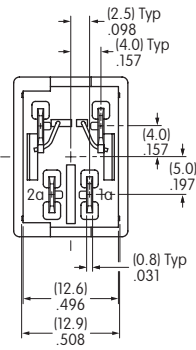
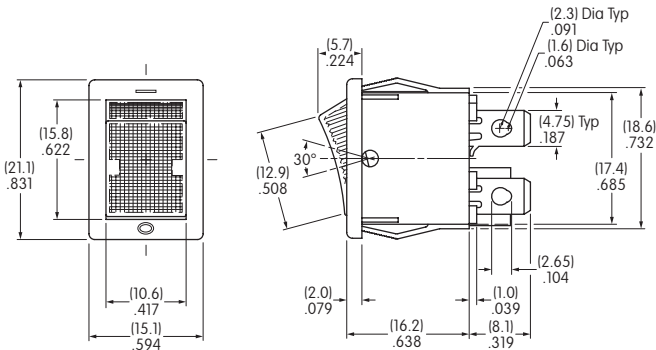


Caps are factory assembled and are not available separately.

TYPICAL SWITCH DIMENSIONS

Double Pole

Neon Illuminated



Panel Thickness
.030" ~ .079"
(0.75mm ~ 2.0mm)



CWSB21CACF