

General Specifications

Toggle

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 Contact: 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/s²) 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.

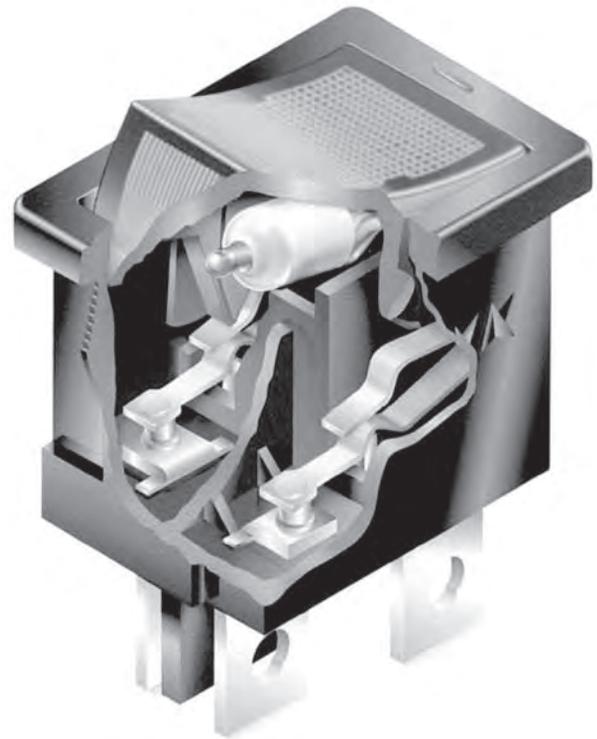
Single-break, snap-acting contact mechanism gives smooth actuation and audible feedback.

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

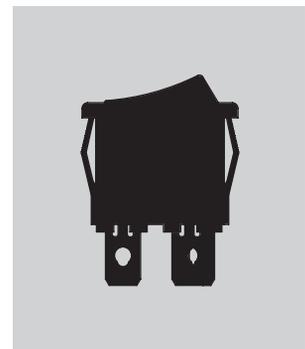
Stable stationary contact construction for high reliability.

Offset terminal alignment gives outstanding insulation resistance and dielectric strength.

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

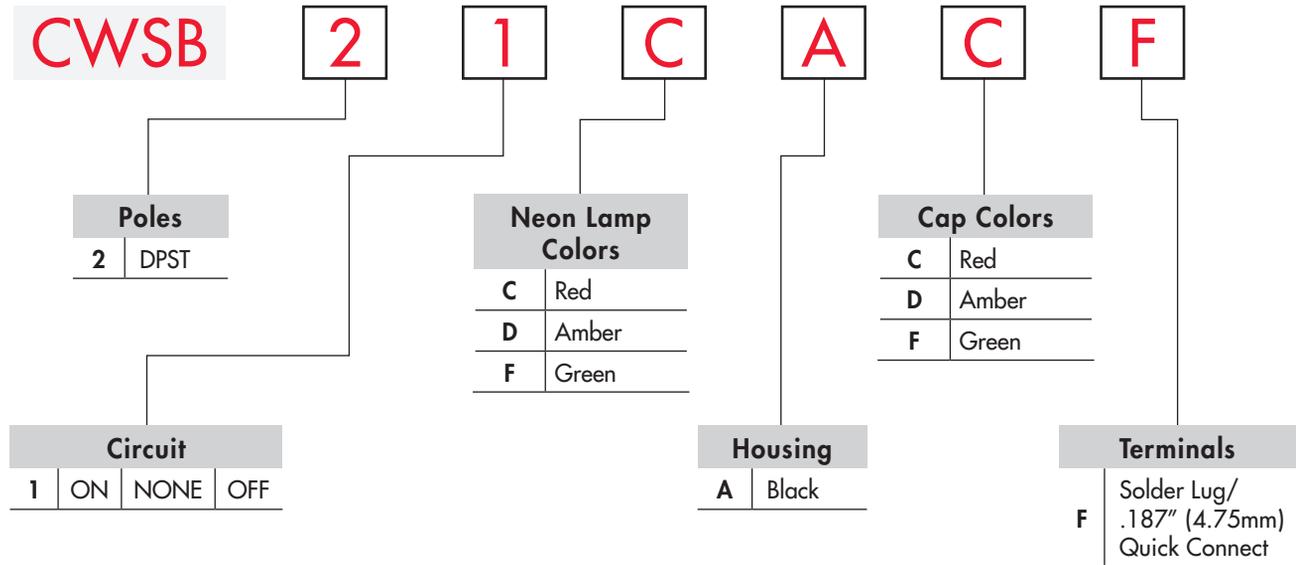


Actual Size



- Supplement
- Accessories
- Indicators
- Touch
- Tilt
- Tactiles
- Slides
- Rotaries
- Key locks
- Programmable Illuminated PB
- Pushbuttons
- B** Rockers
- Toggle

TYPICAL SWITCH ORDERING EXAMPLE



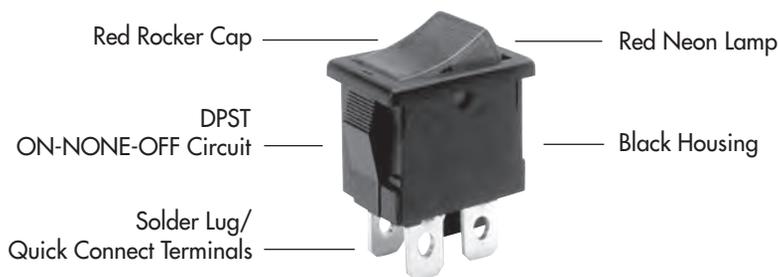
IMPORTANT:



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

| Pole | Model | Rocker Position | | | Connected Terminals | | | Throw & Switch/Lamp Schematic | |
|------|--------|-----------------|--------|-----|---------------------|--------|------|-------------------------------|------|
| | | Down | Center | Up | Down | Center | Up | | |
| DP | CWSB21 | ON | NONE | OFF | 1-1a | 2-2a | OPEN | OPEN | DPST |

Note: Terminal numbers "1a" & "2a" are actually on the switch.

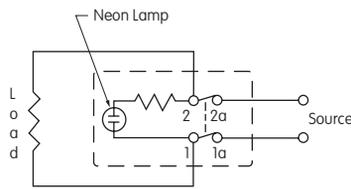
Toggles
Rockers
Pushbuttons
Illuminated PB
Programmable
Keylocks
Rotaries
Slides
Tactiles
Tilt
Touch
Indicators
Accessories
Supplement

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 | | |
|----------------------------|-------|----------|----------|----------|
| | | C | D | F |
| | | Red | Amber | 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

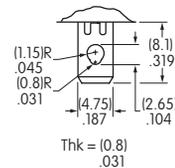
A Black Housing with Snap-in Mounting

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

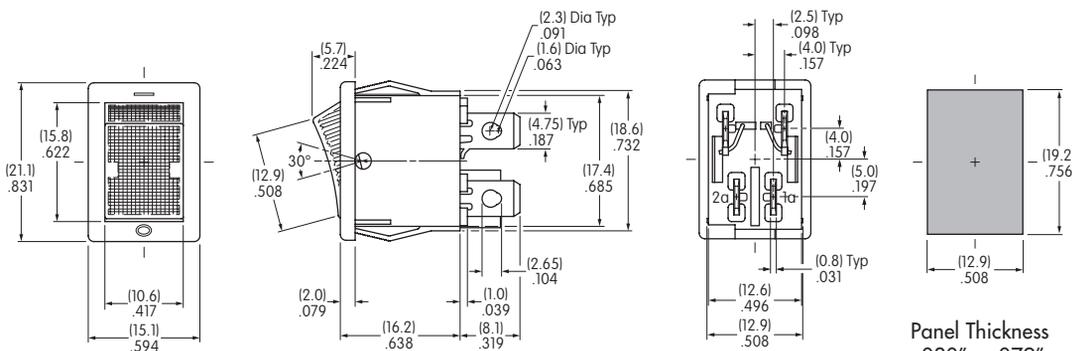


Caps are factory assembled and are not available separately.

TYPICAL SWITCH DIMENSIONS

Double Pole

Neon Illuminated



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



CWSB21CACF