Supplement | Accessories | Indicators

General Specifications

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 Housina: **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/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.

Indicators

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.

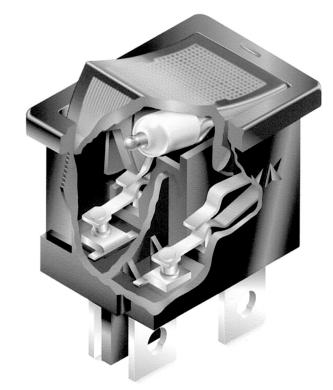
Single-break, snap-acting contact mechanism gives smooth actuation and audible feedback.

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

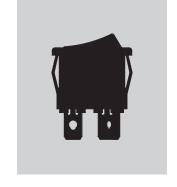
Stable stationary contact construction for high reliability.

Offset terminal alignment gives outstanding insulation resistance and dielectric strength.

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

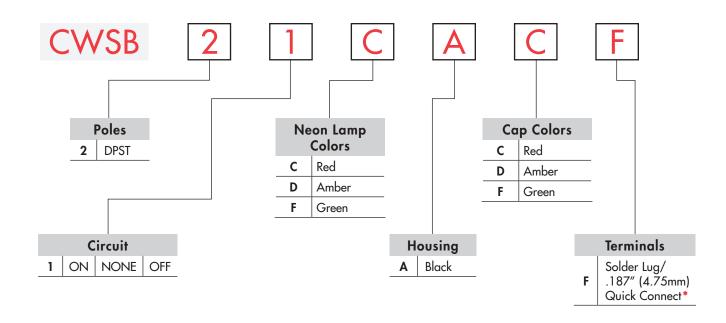






Indicators

TYPICAL SWITCH ORDERING EXAMPLE



* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

CWSB21CACF



IMPORTANT:



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

| 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 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

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

| 7 | — Neon Lamp \ | Colors | | | |
|------------------|------------------|----------|------------|-------------------|--|
| L o a d | 2 2a Source | C Red | D Amber | F Green | |
| Voltage | V | 125V AC | 125V AC | 125V AC | |
| Internal Serie | es Resistance | 33K ohms | 33K ohms | 68K ohms | |
| Current | I | 1.4mA | 1.4mA | 0.6mA | |
| Endurance | Hours | 15,000 | 15,000 | 8,000 | |

HOUSING



Black Housing with Snap-in Mounting

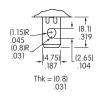
On Off (I O) symbols are molded on the bezel.



TERMINALS



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



CAP COLOR CODES

Cap Colors Available





Amber



Green

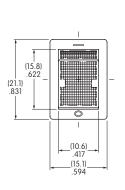


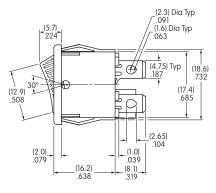
Caps are factory assembled and are not available separately.

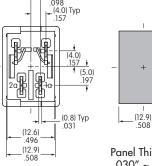
TYPICAL SWITCH DIMENSIONS

Double Pole

Neon Illuminated









_ (19.2) .756



CWSB21CACF

www.nkk.com **B21**