Supplement | Accessories

General Specifications

CWSA Electrical Capacity

For Resistive Load 6A @ 250V AC **Power Level:**

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 with Resistive Load & 6,000 operations with Inductive Load

Nominal Operating Force: 2.50N

Angle of Throw: 30° **Operating Temperature Range:** -10°C ~ +70°C (+14°F ~ +158°F)

Materials & Finishes

Rocker: Polycarbonate **Stationary Contacts:** Silver alloy

Polyamide Laminated thermosetting sheets Housing: Base: Brass with silver alloy plating Copper with silver plating **Movable Contactor: Contact Terminals: Movable Contacts:** Silver alloy Brass with silver plating Common Terminals:

CWSB Electrical Capacity

Power Level: For Resistive Load 6A @ 250V AC

Other Ratings

Contact Resistance: 20 milliohms maximum

Insulation Resistance: 500 megohms minimum @ 500V DC

1,500V AC minimum between contacts for 1 minute minimum Dielectric Strength:

3,000V AC minimum between contacts & case for 1 minute minimum

Mechanical Life: 30,000 operations minimum

Electrical Life: 10,000 operations minimum with Resistive Load & 6,000 operations with Inductive Load

Nominal Operating Force: 6.50N for single pole models; 10.0N for double pole models

> Operating Temperature Range: $-10^{\circ}\text{C} \sim +70^{\circ}\text{C} (+14^{\circ}\text{F} \sim +158^{\circ}\text{F})$ Angle of Throw:

Materials & Finishes

Rocker: Polycarbonate **Stationary Contacts:** Silver alloy

Housing: Polyamide Laminated thermosetting sheets

Movable Contactor: Beryllium copper w/silver alloy plating Terminals: Brass with silver plating

Movable Contacts: Silver

CWT Electrical Capacity

Power Level: For Resistive Load 6A @ 125V AC; 3A @ 250V AC; 4A @ 30V DC

Other Ratings

Contact Resistance: 20 milliohms maximum

Insulation Resistance: 1,000 megohms minimum @ 500V DC

Dielectric Strength: 1,000V AC minimum between contacts for 1 minute minimum

1,500V AC minimum between contacts & case for 1 minute minimum

Mechanical Life: 50,000 operations minimum Electrical Life: 25,000 operations minimum

Nominal Operating Force: 2.0N

> Angle of Throw: 30° Operating Temperature Range: $-25^{\circ}\text{C} \sim +70^{\circ}\text{C} (-13^{\circ}\text{F} \sim +158^{\circ}\text{F})$

Materials & Finishes

Rocker: Glass fiber reinforced polyamide LCP (Liquid Crystal Polymer) Housing: Polyamide Contact Terminals: Brass + silver with silver plating

Movable Contactor: Phosphor bronze w/silver plating Common Terminals: Brass with silver plating

Movable Contacts: Silver alloy



Distinctive Characteristics

CWSA

Low cost molded rocker.

See-saw contact mechanism

Stable stationary contact construction for high reliability.

Easily installed with snap-in mounting.

Large terminal hole dimensioned .067" x .098" (1.7mm x 2.5mm) simplifies wiring and soldering.

Wave Soldering (PC version): See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section.



CWSB

Low cost molded rocker.

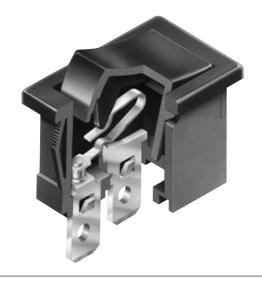
Snap-acting contact mechanism gives smooth actuation and audible feedback.

Stable stationary contact construction for high reliability.

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

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

Manual Soldering: See Profile B in Supplement section.



CWT

Low cost molded rocker in compact, slim design.

See-saw contact mechanism

Outstanding insulation resistance and dielectric strength.

Dust proof construction protects contact area.

Stable stationary contact construction for high reliability.

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

Terminals are molded in and epoxy sealed to lock out flux, dust, and other contaminants.

Manual Soldering: See Profile A in Supplement section.



Supplement Accessories Indicators

STANDARDS & CERTIFICATIONS

CWSA



Specific CWSA models listed below are qualified for Underwriters Laboratories Inc. recognition and Canadian Standards Association certification. cULus marking on case is standard as noted in following table.

| <u>Model</u> | Ratings @ AC | <u>cULus File No.</u> | Marking on Case |
|--------------|--------------|-----------------------|-----------------|
| CWSA11 | 6A @ 250V | E44145 | Standard |
| CWSA12 | 6A @ 250V | E44145 | Standard |

CWSB



Specific CWSB models listed below are qualified for Underwriters Laboratories Inc. recognition and Canadian Standards Association certification. cULus marking on case is standard as noted in following table.

| <u>Model</u> | Ratings @ AC | <u>cULus File No.</u> | Marking on Case |
|--------------|--------------|-----------------------|-----------------|
| CWSB11 | 6A @ 250V | E44145 | Standard |
| CWSB21 | 6A @ 250V | E44145 | Standard |

CWT



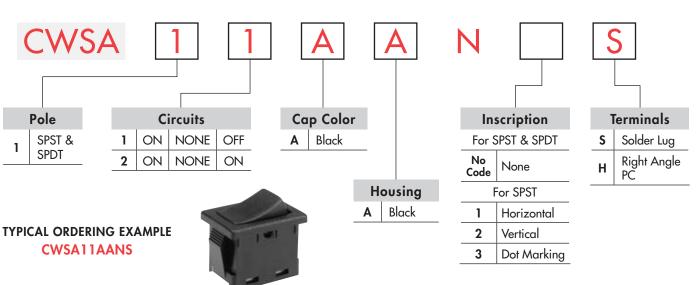
Specific CWT model listed below is qualified for Underwriters Laboratories Inc. recognition and Canadian Standards Association certification. cULus marking on case is standard as noted in following table.

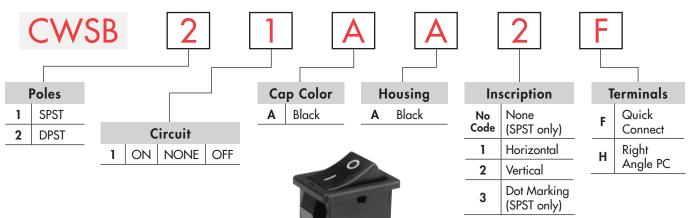
| <u>Model</u> | Ratings @ AC | cULus File No. | Marking on Case |
|--------------|--------------|----------------|-----------------|
| CWT12 | 6A @ 125V | E44145 | Standard |
| | 3A @ 250V | | |

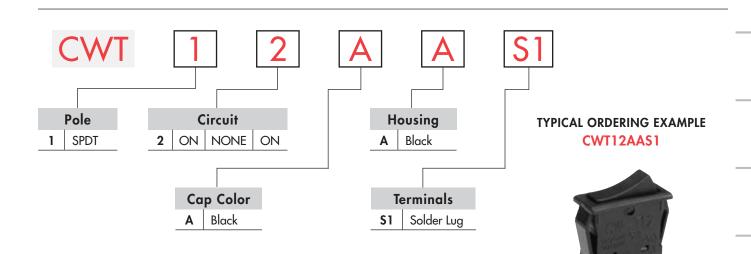


TYPICAL ORDERING EXAMPLE
CWSB21AA2F

TYPICAL SWITCH ORDERING EXAMPLES







Slides

Touch

Indicators

Supplement | Accessories

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INSCRIPTIONS

None

Not available in double pole.



Horizontal Orientation

Only On-None-Off models are available with the horizontal inscription.



Vertical Orientation

Only On-None-Off models are available with the vertical inscription.



Dot Marking

Only Single Pole On-None-Off models are available with the dot inscription.









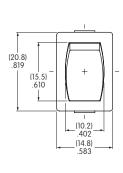
The IEC symbols for On-Off are supplied with Single Throw models only. Orientation of inscription must be selected. Inscription color is white ink on black.

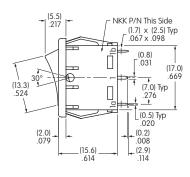
TYPICAL SWITCH DIMENSIONS FOR CWSA

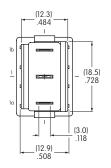
Solder Lug

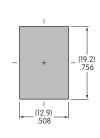
Single Pole • No Inscription











CWSA12AANS

Single throw model does not have terminal 1b

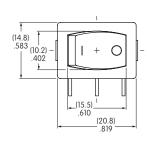
Terminal numbers are on side of switch body

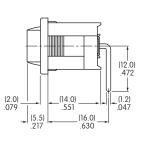
Panel Thickness .030" ~ .079" $(0.75 \text{mm} \sim 2.0 \text{mm})$

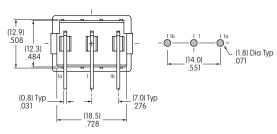
Right Angle

Single Pole • Horizontal On-Off Inscription









CWSA11AAN1H

Single throw model does not have terminal 1b

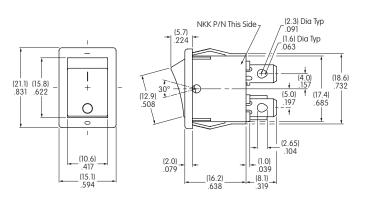
Terminal numbers are on side of switch body

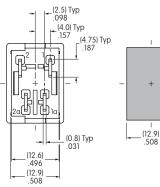


TYPICAL SWITCH DIMENSIONS FOR CWSB

Double Pole • Vertical On-Off Inscription

Quick Connect







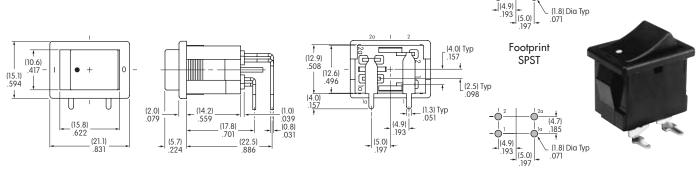
Terminal numbers are on bottom of switch

Panel Thickness .030" ~ .079" $(0.75 \text{mm} \sim 2.0 \text{mm})$

CWSB21AA2F

Single Pole • Dot Inscription

Right Angle



Terminal numbers are on bottom of switch

Footprint DPST

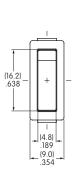
(19.2)

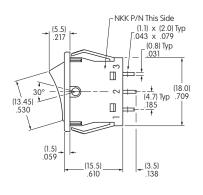
CWSB11AA3H

TYPICAL SWITCH DIMENSIONS FOR CWT

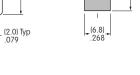
Single Pole • No Inscription

Solder Lug











Terminal numbers are on side of switch body

Panel Thickness .030" ~ .079" $(0.75 \text{mm} \sim 2.0 \text{mm})$

CWT12AAS1

