

General Specifications

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

B

CWSA

Electrical Capacity

Power Level: For Resistive Load 6A @ 250V 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 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

Housing: Polyamide

Movable Contactor: Brass with silver alloy plating

Movable Contacts: Silver alloy

Stationary Contacts: Silver alloy

Base: Laminated thermosetting sheets

Contact Terminals: Copper with silver plating

Common Terminals: Brass with silver plating

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

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: 6.50N for single pole models; 10.0N for double pole models

Angle of Throw: 30°

Operating Temperature Range: -10°C ~ +70°C (+14°F ~ +158°F)

Materials & Finishes

Rocker: Polycarbonate

Housing: Polyamide

Movable Contactor: Beryllium copper w/silver alloy plating

Movable Contacts: Silver

Stationary Contacts: Silver alloy

Base: Laminated thermosetting sheets

Terminals: Brass with silver plating

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°C ~ +70°C (-13°F ~ +158°F)

Materials & Finishes

Rocker: Glass fiber reinforced polyamide

Housing: Polyamide

Movable Contactor: Phosphor bronze w/silver plating

Movable Contacts: Silver alloy

Base: LCP (Liquid Crystal Polymer)

Contact Terminals: Brass + silver with silver plating

Common Terminals: Brass with silver plating

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.



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

TYPICAL SWITCH ORDERING EXAMPLES

CWSA

1

1

A

A

N

S

Pole	1	SPST & SPDT
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Circuits	1	ON	NONE	OFF
2	ON	NONE	ON	

Cap Color	A	Black
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Housing	A	Black
---------	---	-------

Inscription	For SPST & SPDT	
No Code	None	
For SPST		
1	Horizontal	
2	Vertical	
3	Dot Marking	

Terminals	S	Solder Lug
H	Right Angle PC	

TYPICAL ORDERING EXAMPLE

CWSA11AANS



CWSB

2

1

A

A

2

F

Poles	1	SPST
2	DPST	

Circuit	1	ON	NONE	OFF
---------	---	----	------	-----

Cap Color	A	Black
-----------	---	-------

Housing	A	Black
---------	---	-------

Inscription	No Code	None (SPST only)
1	Horizontal	
2	Vertical	
3	Dot Marking (SPST only)	

Terminals	F	Quick Connect
H	Right Angle PC	

TYPICAL ORDERING EXAMPLE

CWSB21AA2F



CWT

1

2

A

A

S1

Pole	1	SPDT
------	---	------

Circuit	2	ON	NONE	ON
---------	---	----	------	----

Cap Color	A	Black
-----------	---	-------

Housing	A	Black
---------	---	-------

Terminals	S1	Solder Lug
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TYPICAL ORDERING EXAMPLE

CWT12AAS1



INSCRIPTIONS

No Code

None

Not available in double pole.

1

Horizontal Orientation

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

2

Vertical Orientation

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

3

Dot Marking

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

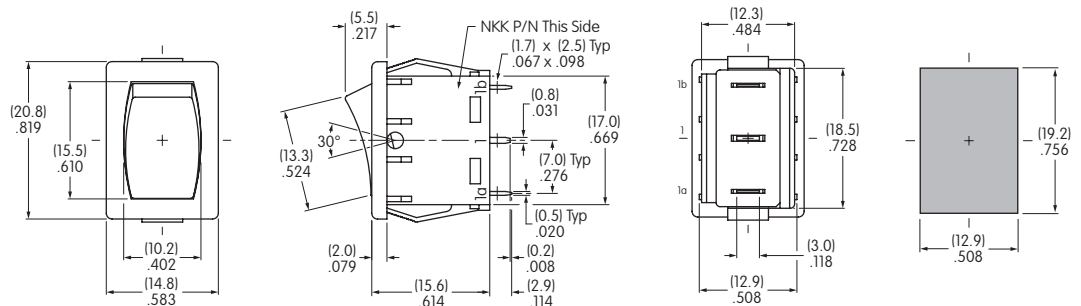


The IEC symbols for On-Off are supplied with Single Throw models only. Orientation of inscription must be selected. Inscription color is white ink on black.

TYPICAL SWITCH DIMENSIONS FOR CWSA

Solder Lug

Single Pole • No Inscription



CWSA12AANS

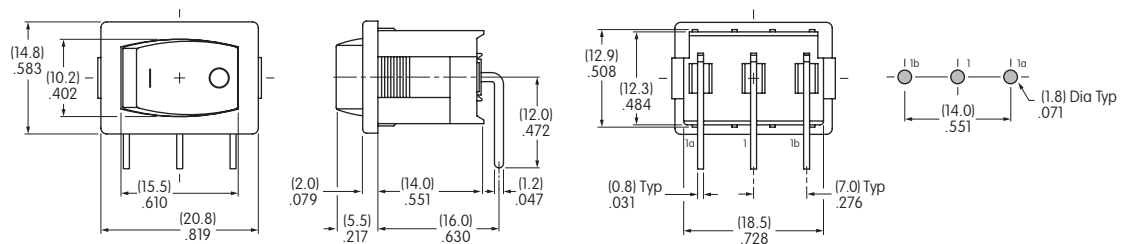
Single throw model does not have terminal 1b

Terminal numbers are on side of switch body

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

Right Angle

Single Pole • Horizontal On-Off Inscription



CWSA11AAN1H

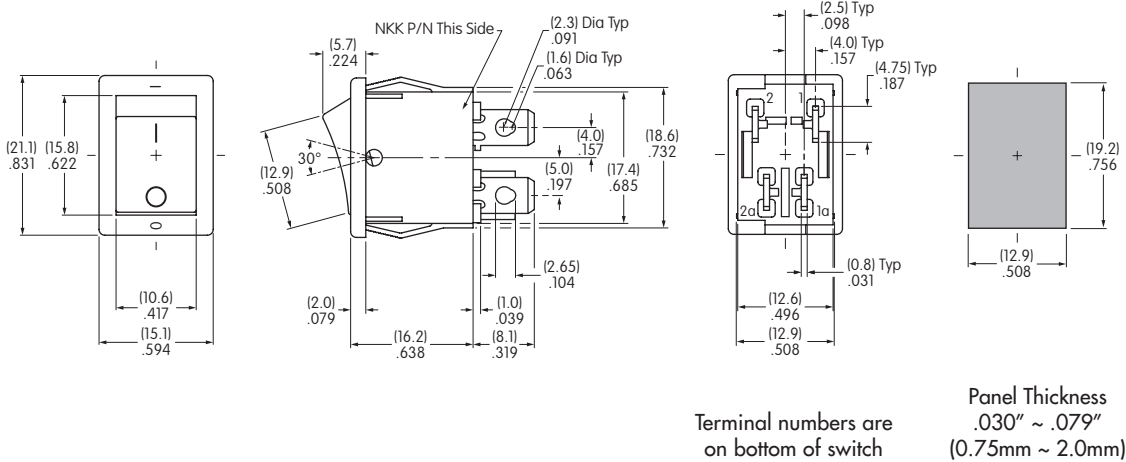
Single throw model does not have terminal 1b

Terminal numbers are on side of switch body

TYPICAL SWITCH DIMENSIONS FOR CWSB

Double Pole • Vertical On-Off Inscription

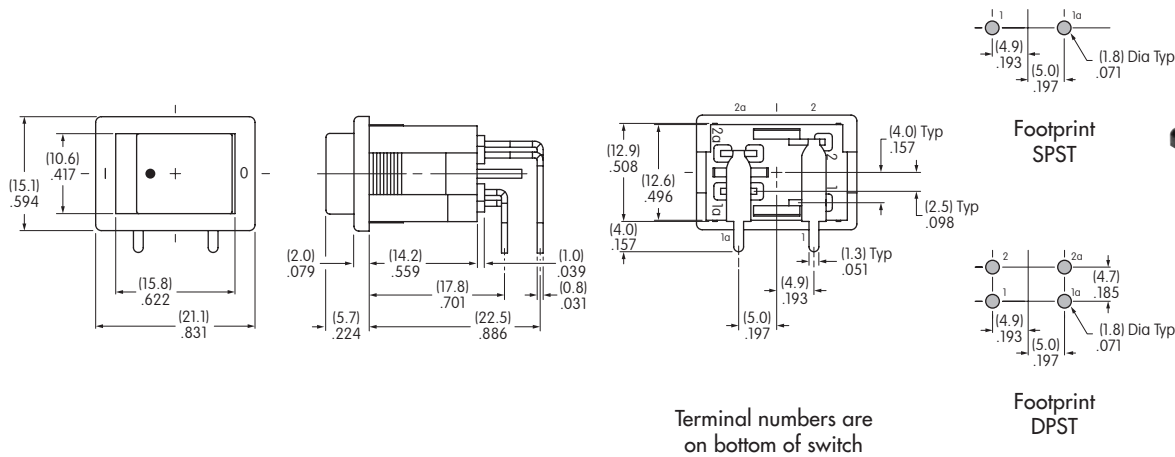
Quick Connect



CWSB21AA2F

Single Pole • Dot Inscription

Right Angle

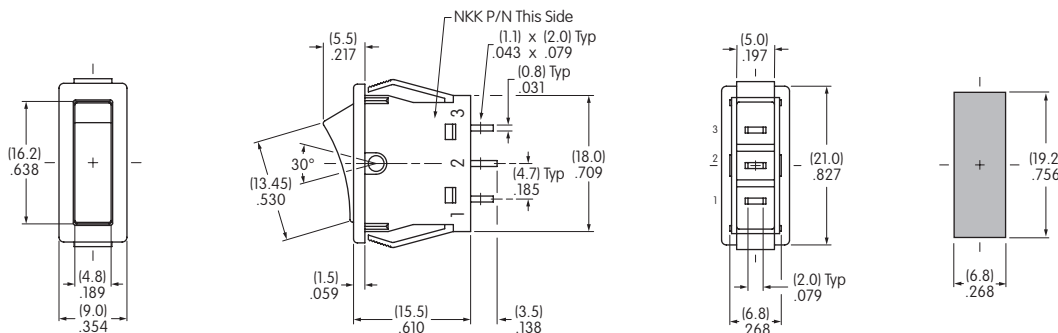


CWSB11AA3H

TYPICAL SWITCH DIMENSIONS FOR CWT

Single Pole • No Inscription

Solder Lug



CWT12AAS1