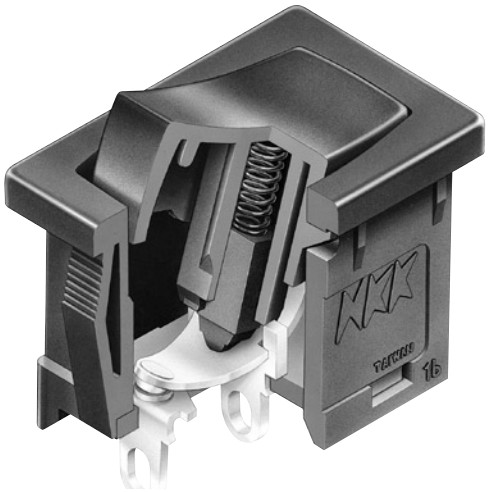
Distinctive Characteristics

CWSA



Low cost molded rocker.

See-saw contact mechanism

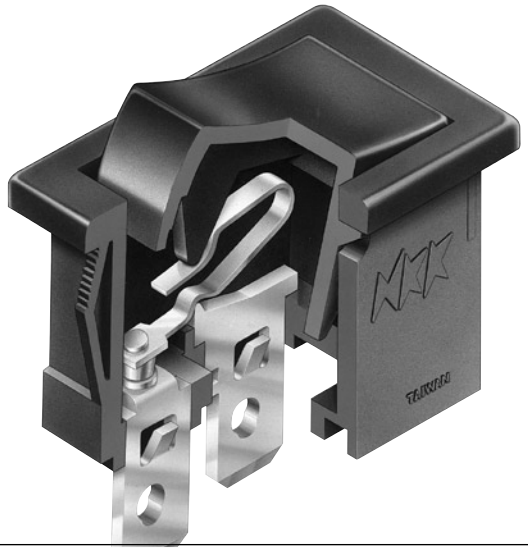
Stable stationary contact construction for high reliability.

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.

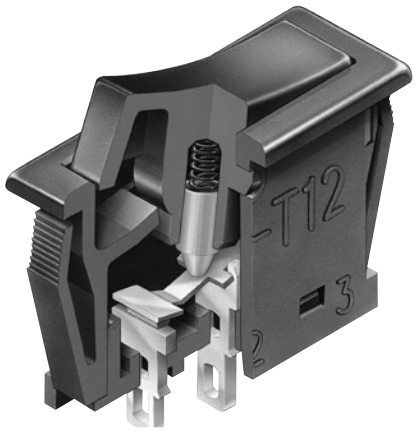
Stable stationary contact construction for high reliability.

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.

General Specifications

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 w/silver alloy plating
Movable Contacts: Silver
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

STANDARDS & CERTIFICATIONS

CWSA

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

Model	Ratings @ AC	C-UL File No.	Marking on Case
CWSA11	6A @ 250V	WOYR8.E44145	Standard
CWSA12	6A @ 250V	WOYR8.E44145	Standard

CWSB

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

Model	Ratings @ AC	C-UL File No.	Marking on Case
CWSB11	6A @ 250V	WOYR8.E44145	Standard
CWSB21	6A @ 250V	WOYR8.E44145	Standard

CWT

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

Model	Ratings @ AC	C-UL File No.	Marking on Case
CWT12	6A @ 125V 3A @ 250V	WOYR8.E44145	Standard

TYPICAL SWITCH ORDERING EXAMPLES

CWSA [1] [1] [A] [A] N [ ] [S]

POLE

1	SPST & SPDT

CIRCUITS

1	ON	NONE	OFF
2	ON	NONE	ON

CAP COLOR

A	Black

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

HOUSING

A	Black

CAP COLOR

A	Black

TERMINALS

S1	Solder Lug

TYPICAL ORDERING EXAMPLE
CWT12AAS1

INSCRIPTIONS

No Code **None**

Not available in double pole.

1 **Horizontal Orientation**

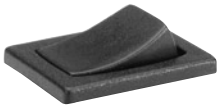
Only On-None-Off models are available with the horizontal inscription.

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.

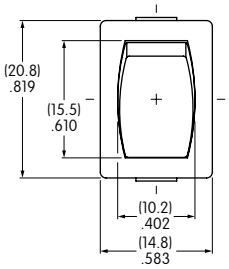


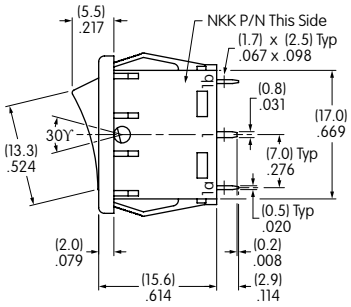

The IEC symbols for On-Off are supplied with Single Throw models only. Orientation of inscription must be selected. Inscription color is white ink on black.

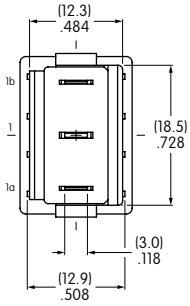
TYPICAL SWITCH DIMENSIONS FOR CWSA

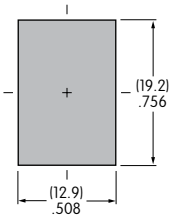
Solder Lug

Single Pole • No Inscription









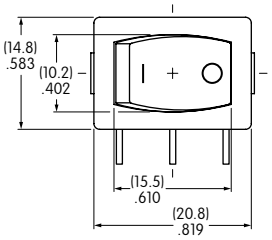
CWSA12AANS

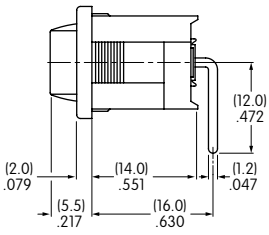
Terminal numbers are on side of switch body

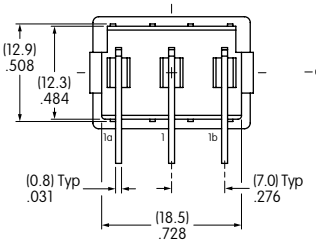
Panel Thickness .030" ~ .079" (0.75mm ~ 2.0mm)

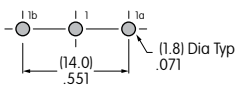
Right Angle

Single Pole • Horizontal On-Off Inscription









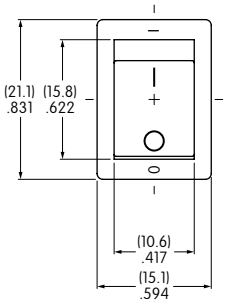
CWSA11AAN1H

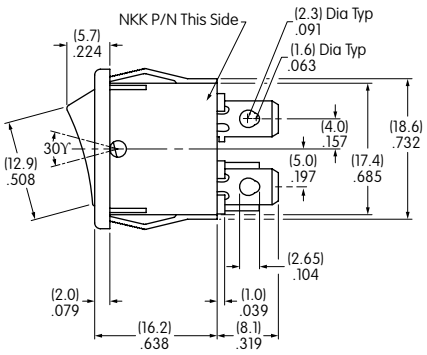
Single throw model does not have terminal 1b

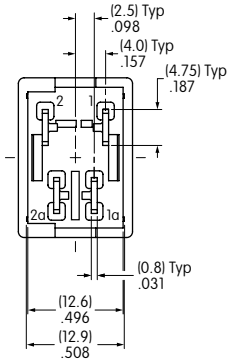
Terminal numbers are on side of switch body

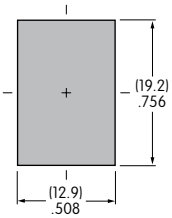
TYPICAL SWITCH DIMENSIONS FOR CWSB

Quick Connect — Double Pole • Vertical On-Off Inscription







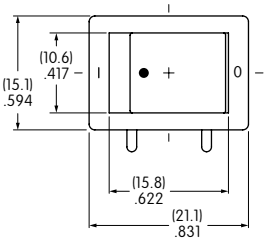


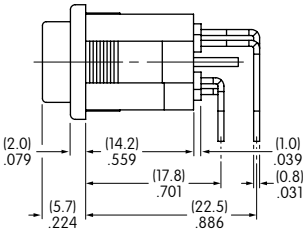
Terminal numbers are on bottom of switch

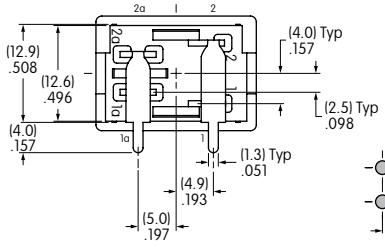
Panel Thickness .030" ~ .079" (0.75mm ~ 2.0mm)

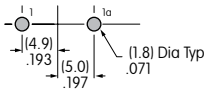
CWSB21AA2F

Right Angle — Single Pole • Dot Inscription

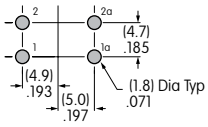








Footprint SPST



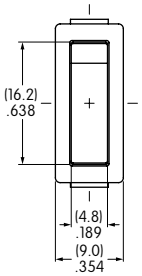
Footprint DPST

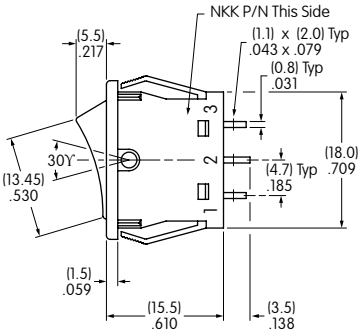
Terminal numbers are on bottom of switch

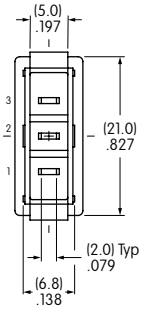
CWSB11AA3H

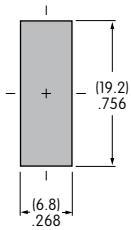
TYPICAL SWITCH DIMENSIONS FOR CWT

Solder Lug — Single Pole • No Inscription









Terminal numbers are on side of switch body

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

CWT12AAS1