Slides

Supplement Accessories Indicators

General Specifications

Electrical Capacity (Resistive Load)

Power Level: 15A @ 125/250V AC or 15A @ 30V DC

Other Ratings

Contact Resistance: 10 milliohms maximum for solder lug, screw & quick connect terminal models

30 milliohms maximum for wire lead terminal models

200 megohms minimum @ 500V DC **Insulation Resistance:**

Dielectric Strength: 1,250V AC minimum between contacts for 1 minute minimum

3,750V AC minimum between contacts & case for 1 minute minimum

Mechanical Life: 30,000 operations minimum

Electrical Life: 15,000 operations minimum for circuit 11 and 12 models

10,000 operations minimum for circuit 13, 15, 18, 19 models

Angle of Throw:

Materials & Finishes

Rocker: Phenylene oxide

Outer Housing: Polyamide (UL94V-0) **Inner Case:** Melamine (UL94V-0)

Cover for Wire Lead Models: Glass fiber reinforced polyamide (UL94V-0)

> Nitrile butadiene rubber Flange Gasket: **Movable Contactor:** Copper with silver plating

Movable Contacts: Silver alloy plus copper with silver plating **Stationary Contacts:** Silver alloy plus copper with silver plating

Copper with tin plating for solder lug & wire lead Terminals:

> Brass with silver plating for screw lug Brass with tin plating for quick connect

Wire Lead Covers: Heat resistant polyvinyl chloride (Leads are AWG 14)

Environmental Data

Operating Temp Range: -25°C through +85°C (-13°F through +185°F)

Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm 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)

Front Panel Seal: IP67 of IEC60529, dust tight & water protected during temporary immersion for all models

Behind Panel Seal: IP60 of IEC60529, dust tight but not water protected for solder lug, screw & quick connect models IP67 of IEC60529, dust tight & water protected during temporary immersion for wire lead models

Installation

Soldering Time & Temp: Manual Soldering: See Profile A in Supplement section.

> Cleaning: Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards: UL94V-0 outer housing, inner case, & outer cover on wire lead models

File No. E44145

Solder & screw lug models recognized at 15A @ 125/250V AC & 15A @ 30V DC.

Add "/U" to end of part number to order UL mark on switch. Add "/CUL" to end of part number to order cULus mark on switch.

VDE: License No. 126501

All models approved at 15A @ 250V AC (pending for quick connect).

Add "V" to end of part number to order VDE mark on switch.

EN: No. 61058-1

WR11 & WR12 models meet European Norm for 3mm contact gap to prevent contact welds.

Wiring Material Standards: UL AWM 1015 Recognized at Flammability VW-1.

Temperature Range -20°C ~ +105°C; Maximum Load 600V; AWG 14.

CSA TEW 105 Certified at Temperature Range -20°C ~ +105°C; Maximum Load 600V.



Rockers

Keylocks Programmable Illuminated PB Pushbuttons

B125

Distinctive Characteristics

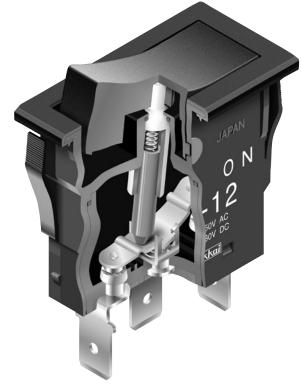
Single unit construction of the flange and outer housing gives added protection from environmental elements.

Specially designed contact mechanism for breaking light welds.

Minimal contact bounce achieved with specially designed interlocked switching mechanism.

Heat resistant resin used for outer housing, inner case, and cover on wire lead models meets UL94V-0 flammability standard and provides high arc and tracking resistance.

Available with solder lug, screw, quick connect, and wire lead terminations.

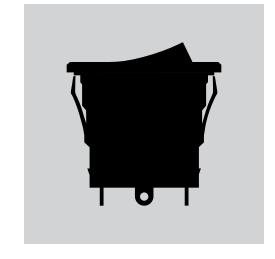


Sealed Construction Meets IP60 & IP67 Standards

Solder lug, screw, and quick connect terminal models meet IP67 of IEC60529 Standards at front panel (dust tight and water protected for temporary immersion, patent pending). Behind panel standard is IP60 (dust tight but not water protected).

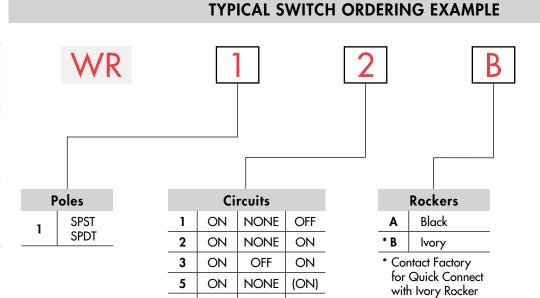
Wire lead models conform fully to IP67 of IEC60529 Standards at front and behind panel (dust tight and water protected for temporary immersion). Switch base is epoxy sealed and covered by an outer case for further protection from dust and water. (Switches cannot be operated under water. Contact factory for further details regarding operating environment.)





Rockers

Supplement Accessories



OFF

OFF

) = Momentary

(ON)

(ON)

Terminals								
S	Solder Lug with Epoxy Seal*							
SN	Solder Lug without Epoxy Seal*							
T	Screw Lug with Epoxy Seal							
TN	Screw Lug without Epoxy Seal							
F	.250" (6.35mm) Quick Connect with Epoxy Seal *							
FN	.250" (6.35mm) Quick Connect without Epoxy Seal*							
L	Wire Lead							

IMPORTANT:



Switches are supplied without UL, cULus & VDE marking unless specified. Specific models & ratings noted on General Specifications page.

8

9

(ON)

ON

* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

WR12BS





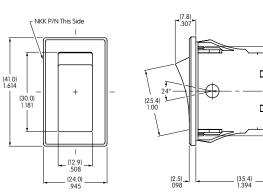
Supplement | Accessories

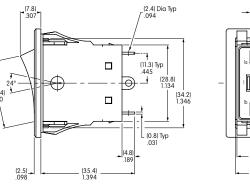
POLES & CIRCUITS

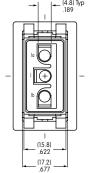
		Rocker Position () = Momentary			Connected Terminals			Throw & Schematics		
Pole	Model	Down	Center	Up	Down	Center	Up	Note:	Terminal numbers are not actually on wire lead models.	
SP	WR11	ON	NONE	OFF	1a-1b	OPEN	OPEN	SPST	• 1a (COM) • 1b	
SP	WR12 WR13 WR15 WR18 WR19	ON ON (ON) ON	NONE OFF NONE OFF	ON ON (ON) (ON) (ON)	1-1b	OPEN	1-1a	SPDT	a ● 1 (COM)	

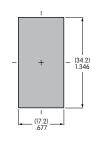
TYPICAL SWITCH DIMENSIONS

Solder Lug Terminals









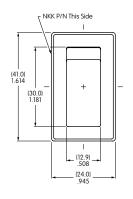


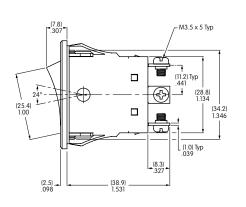
WR11 model does not have terminal 1.

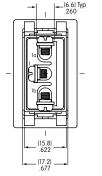
Panel Thickness .039" ~ .157" (1.0mm ~ 4.0mm)

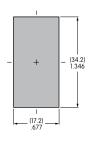
WR12AS

Screw Lug Terminals











WR11 model does not have terminal 1.

Panel Thickness .039" ~ .157" $(1.0 \text{mm} \sim 4.0 \text{mm})$

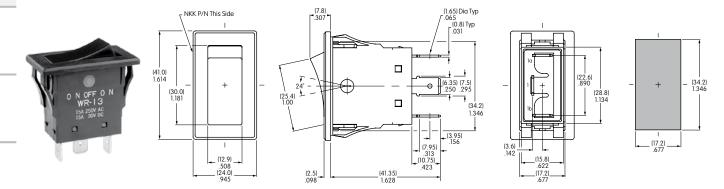
WR12AT



Supplement | Accessories

TYPICAL SWITCH DIMENSIONS

.250" (6.35mm) Quick Connect Terminals

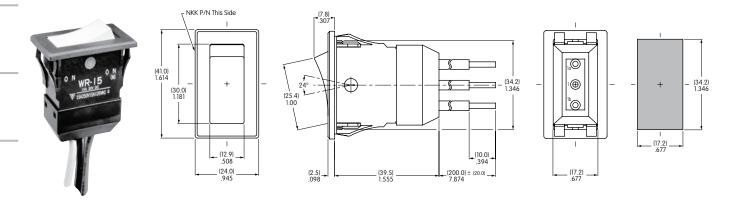


WR13AF

WR11 model does not have terminal 1.

Panel Thickness .039" ~ .157" $(1.0mm \sim 4.0mm)$

Wire Lead Terminals



WR15BL

WR11 model does not have terminal 1.

Panel Thickness .039" ~ .157" $(1.0mm \sim 4.0mm)$

STANDARD WIRE COLOR SCHEME

Wire leads are covered with heat resistant vinyl in accordance with UL 1015 and CSA TEW 105 Standards for Appliance Wiring Material (AWM).

Terminal Numbers & Wire Colors								
	la	1	1b					
WR11	Black		White					
WR12-19	White	Black	Red					

