# General Specifications

### **Electrical Capacity (Resistive Load)**

Power Level:

10A @ 125/250V AC 6A @ 125/250V AC (UL/CSA) 5A (3A) @ 125/250V AC (VDE)

## Other Ratings

<b>v</b>	
<b>Contact Resistance:</b>	10 milliohms maximum
Insulation Resistance:	500 megohms minimum @ 500V DC
Dielectric Strength:	2,000V AC minimum between contacts for 1 minute minimum;
-	4,000V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	30,000 operations minimum
Electrical Life:	10,000 operations minimum
Nominal Operating Force:	Single Pole 3.92N & Double Pole 5.39N
Angle of Throw:	30°

### **Materials & Finishes**

Rocker:	Polyamide (UL94V-2)
Housing/Case:	Polyamide (UL94V-0)
Movable Contactor:	Copper with silver plating
Movable Contacts:	Silver alloy
Stationary Contacts:	Silver alloy
End Terminals:	Brass with silver plating
<b>Common Terminals:</b>	Copper with silver plating
Lamp Terminals:	Phosphor bronze with tin plating (illuminated models only)

## **Environmental Data**

–25°C through +70°C (–13°F through +158°F) for nonilluminated models;
–25°C through +50°C (–13°F through +122°F) for illuminated models
90 ~ 95% humidity for 96 hours @ 40°C (104°F)
10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning
in 15 minutes; 3 right angled directions for 2 hours
50G (490m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Dust resistant inner seal

### Installation

Soldering:Manual Soldering: See Profile A in Supplement section.Cleaning:These devices are not process sealed. Hand cleaning locally using alcohol based solution.

### **Standards & Certifications**

Flammability Standards:	UL94V-2 for rocker
	UL94V-0 for housing/case
UL:	File No. E44145
	All JWS models recognized at 6A @ 125/250V AC
CSA:	File No. 023535_0_000
	All JWS models certified at 6A @ 125/250V AC
VDE:	License No. 119153
	All JWS models approved at 5A (3A) @ 125/250V AC



Rotaries

Slides

Tactiles

ŧ

Touch

Indicators

Supplement Accessories

Toggles

**B** Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

÷

Touch

Supplement Accessories Indicators

# Distinctive Characteristics

Rocker caps and housing available in a variety of colors.

Protective barrier available to prevent accidental actuation.

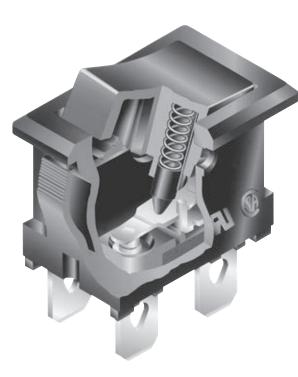
Constructed for dust resistance with interior cover of polyamide between actuator and contact area.

Easy, crisp actuation.

Small size well suited for telecommunication, measuring, automation, and consumer applications.

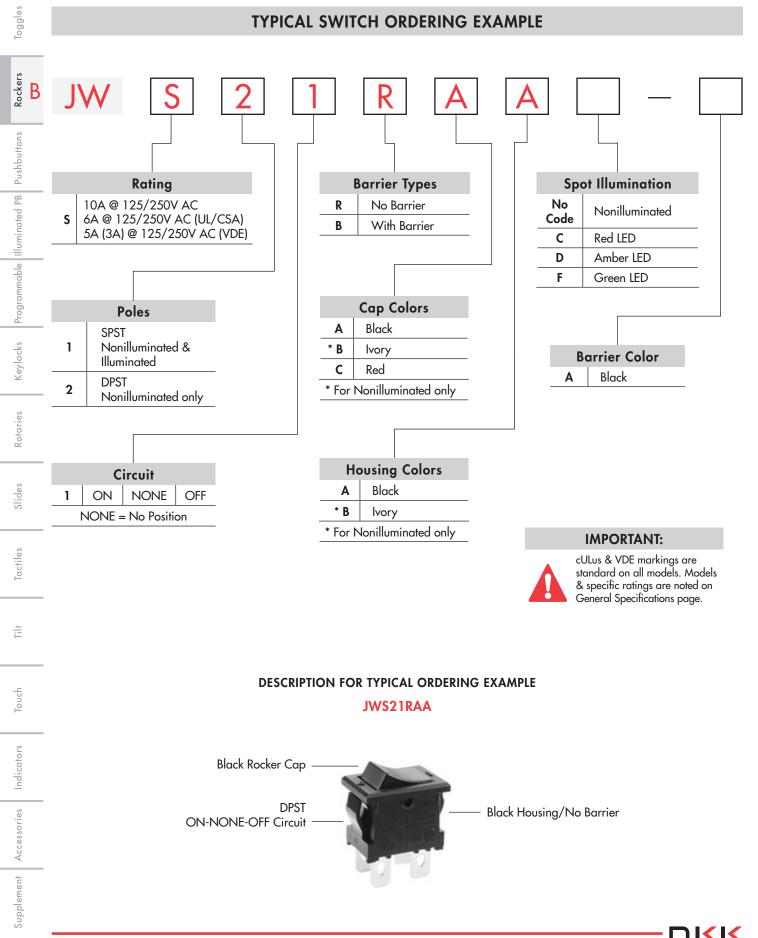
Terminals are molded in to lock out flux, dust, and other contaminants.

Outer case of heat resistant resin meets UL94V-0 flammability standard.



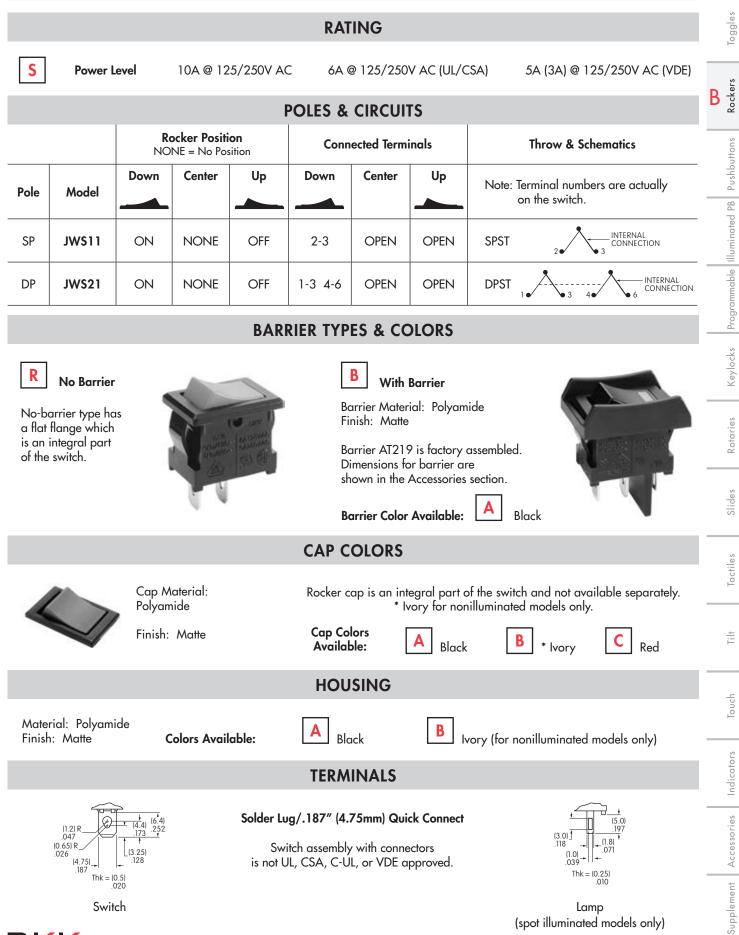






# Internationally Approved Rockers

# Series JWS



# LED COLORS & SPECIFICATIONS FOR SPOT ILLUMINATED MODELS

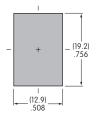
LEDs are supplied as an integral part of illuminated devices and are not available separately. LED polarity markings are on the bottom of the switch.

The electrical specifications shown here are determined at a basic temperature of 25°C.

If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula in the Supplement section.

(+)OO(-)		С	D	F		
	Color	Red	Amber	Green		
Maximum Forward Current	$I_{FM}$	30mA	20mA	30mA		
Typical Forward Current	I <sub>F</sub>	10mA	10mA	10mA		
Forward Voltage	$V_{\rm F}$	1.8V	2.0V	2.1V		
Maximum Reverse Voltage	$V_{\rm RM}$	5V	5V	5V		
Current Reduction Rate Above 25°C	ΔI <sub>F</sub>	No Current Reduction Rate Within Specified Operating Temperature				
Ambient Temperature Range		−25°C ~ +50°C				

# PANEL CUTOUT & PANEL THICKNESS RANGES



**Panel Thickness Ranges:** 

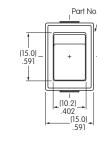
Without Barrier: .030" ~ .079" (0.75mm ~ 2.0mm)

With Barrier: .024" ~ .059" (0.6mm ~ 1.5mm)

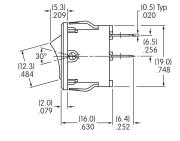
## TYPICAL SWITCH DIMENSIONS

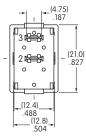
### Nonilluminated • No Barrier





# Single Pole

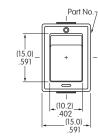




JWS11RCA

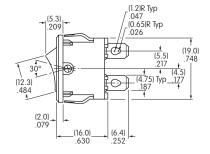
### Nonilluminated • No Barrier

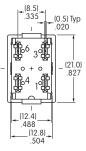




JWS21RAA

Double Pole





DPST models have IEC symbols for On-Off on the flange.



Keylocks

Rotaries

Slides

Tactiles

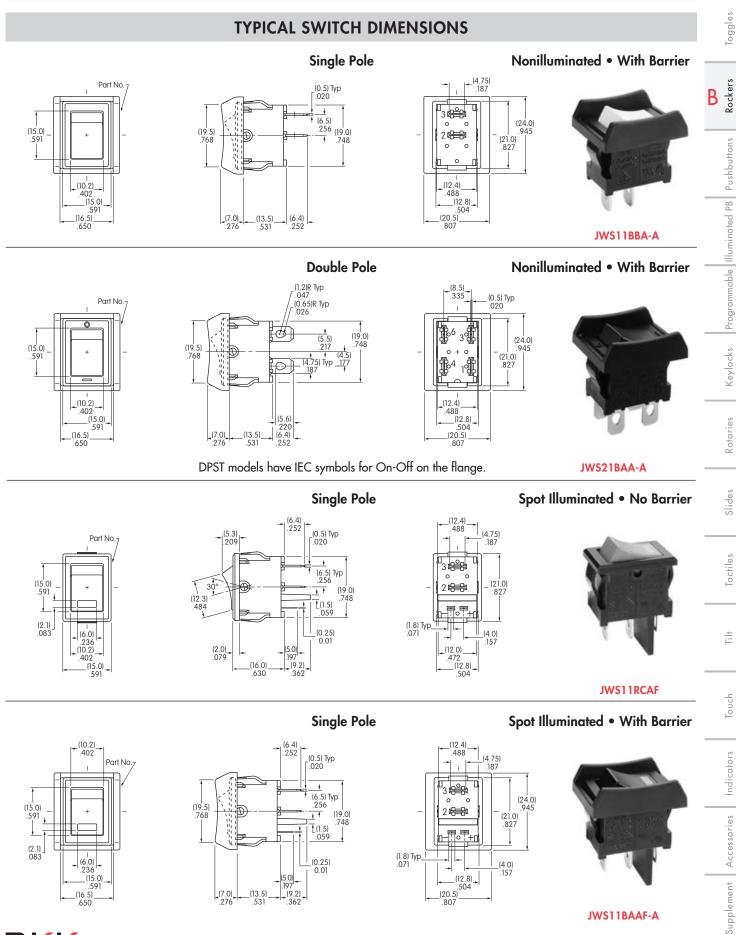
÷

Touch

Indicators

Supplement Accessories

В



SWITCHES

B55