

Distinctive Characteristics

Rocker caps and housing available in a variety of colors.

Protective barrier available to prevent accidental actuation.

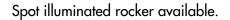
Constructed for dust resistance with interior cover of polyamide between actuator and contact area.

Easy, crisp actuation.

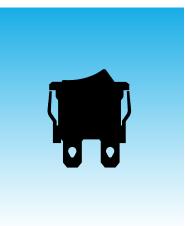
Small size well suited for telecommunication, measuring, automation, and consumer applications.

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

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



Actual Size





General Specifications

Electrical Capacity (Resistive Load)

Power Level: 10A @ 125/250V AC

Other Ratings

Contact Resistance:	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			

Single Pole 3.92N & Double Pole 5.39N

Materials & Finishes

Nominal Operating Force:

Angle of Throw:

30°

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

Environmental Data

Operating Temp Range:	–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				
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 15 minutes; 3 right angled directions for 2 hours				
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)				
Sealing:	Dust resistant inner seal				
-					

Installation

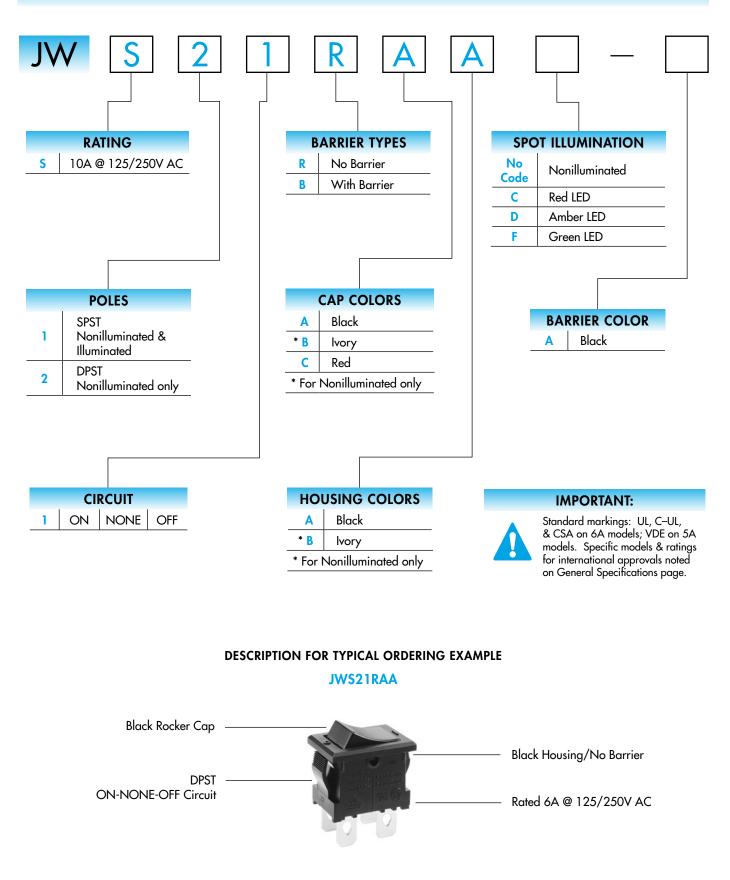
Manual Soldering: See Profile A in Supplement section. Soldering: Cleaning: These devices are not process sealed. Hand cleaning locally using alcohol based solution.

Standards & Certifications

	Flammability Standards:	UL94V-0 for rocker & housing/case
R]	UL Recognized:	All JWS models recognized at 6A @ 125/250V AC;
-		UL File No. WOYR2.E44145
د <mark>م</mark>	C-UL Recognized:	All JWS models recognized at 6A @ 125/250V AC;
		UL File No. WOYR8.E44145
SP	CSA Certified:	All JWS models certified at 6A @ 125/250V AC;
		CSA File No. 023535-0-000
	VDE Approved:	All JWS models approved at 5A (3A) @ 125/250V AC;
Ē	2	VDE License No. 119153



TYPICAL SWITCH ORDERING EXAMPLE





RATING

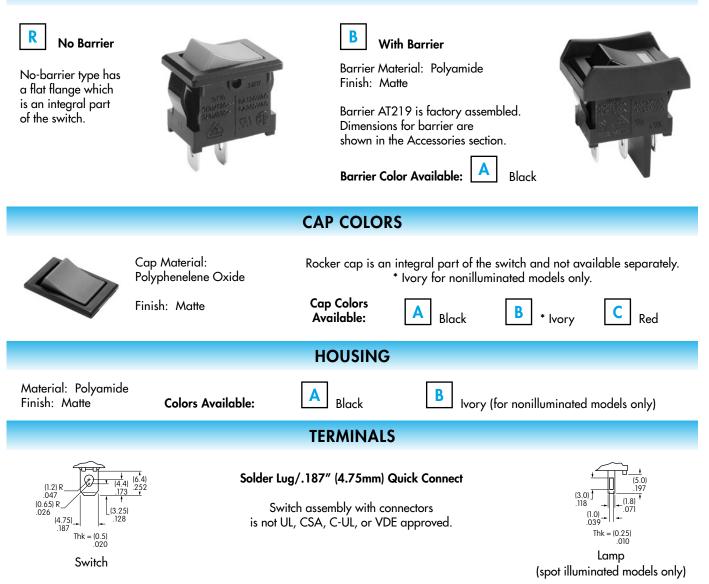
S

Power Level

6A @ 125/250V AC

POLES & CIRCUITS									
		Ro	ocker Positi	on	Connected Terminals			Throw & Schematics	
Pole	Model	Down	Center	Up	Down	Center	Up	Note: Terminal numbers are actually on the switch.	
SP	JWS11	ON	NONE	OFF	2-3	OPEN	OPEN	SPST	
DP	JWS21	ON	NONE	OFF	1-3 4-6	OPEN	OPEN	DPST	

BARRIER TYPES & COLORS





LED COLORS & SPECIFICATIONS FOR SPOT ILLUMINATED MODELS

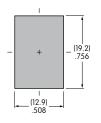
LEDs are supplied as an integral part of illuminated devices and are not available separately. LED polarity markings are on the bottom of the switch.

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(-)	Color	C Red	D Amber	F
Forward Peak Current	I _{FM}	25mA	20mA	20mA
Continuous Forward Current	I _F	20mA	15mA	15mA
Forward Voltage	V _F	2.0V	1.9V	1.95V
Reverse Peak Voltage	V _{RM}	4V	5V	5V
Current Reduction Rate Above 25°C	ΔI _F	0.42mA/°C	0.27mA/°C	0.27mA/°C
Ambient Temperature Range	−25°C ~ +50°C			

PANEL CUTOUT & PANEL THICKNESS RANGES



Panel Thickness Ranges:

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

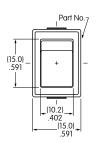
With Barrier: .024" ~ .059" (0.6mm ~ 1.5mm)

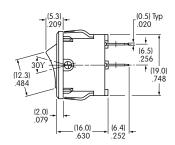
TYPICAL SWITCH DIMENSIONS

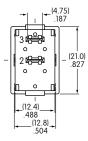
Nonilluminated • No Barrier

Single Pole







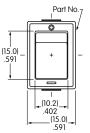


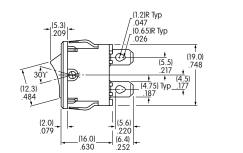
JWS11RCA

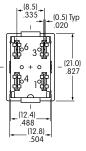
Nonilluminated • No Barrier

Double Pole







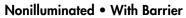


JWS21RAA

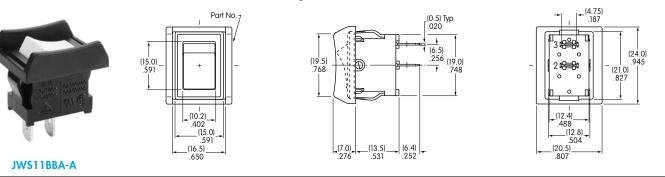
DPST models have IEC symbols for On-Off on the flange.



TYPICAL SWITCH DIMENSIONS



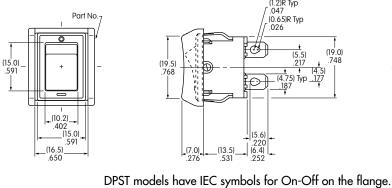
Single Pole

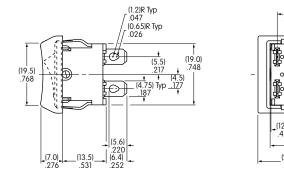


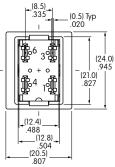


Double Pole







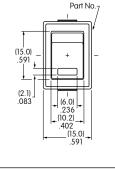


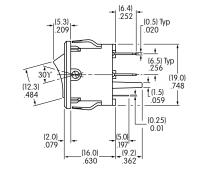
JWS21BAA-A

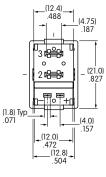
Spot Illuminated • No Barrier





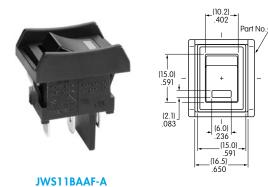






JWS11RCAF

Spot Illuminated • With Barrier



Single Pole



