

Distinctive Characteristics

Rocker caps and housing available in a variety of colors.

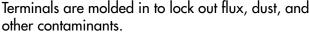
Protective barrier available to prevent accidental actuation.

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

Easy, crisp actuation.

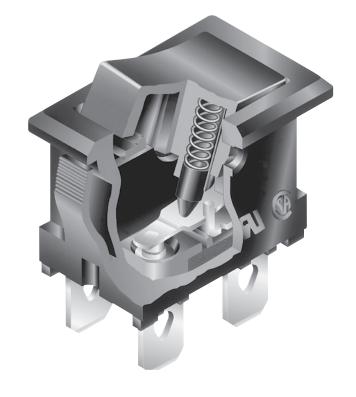
Small size well suited for telecommunication, measuring, automation, and consumer applications.

Terminals are molded in to lock out flux, dust, and

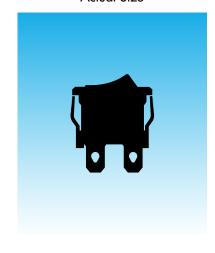


Outer case of heat resistant resin meets UL94V-0 flammability standard.

Spot illuminated rocker available.



Actual Size





General Specifications

Electrical Capacity (Resistive Load)

10A @ 125/250V AC Power Level:

Other Ratings

Contact Resistance: 10 milliohms maximum

500 megohms minimum @ 500V DC Insulation Resistance:

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:

Materials & Finishes

Polyphenylene ether (UL94V-0) Rocker:

Housing/Case: 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

50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Shock:

Sealing: Dust resistant inner seal

Installation

Solderina: 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-0 for rocker & housing/case

UL Recognized: All JWS models recognized at 6A @ 125/250V AC;

UL File No. WOYR2.E44145

All JWS models recognized at 6A @ 125/250V AC; C-UL Recognized:

UL File No. WOYR8.E44145

All JWS models certified at 6A @ 125/250V AC; **CSA Certified:**

CSA File No. 023535-0-000

VDE Approved: All JWS models approved at 5A (3A) @ 125/250V AC;

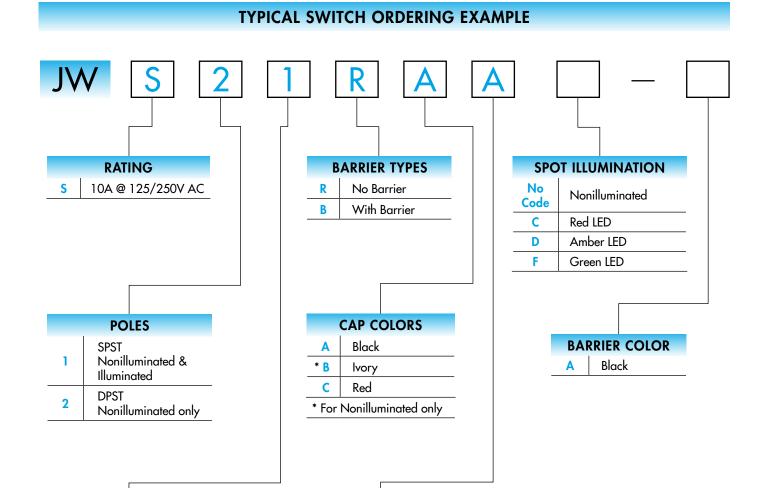
VDE License No. 119153



CIRCUIT

NONE

OFF



HOUSING COLORS Black

Ivory

* For Nonilluminated only

IMPORTANT:



Standard markings: UL, C-UL, & CSA on 6A models; VDE on 5A models. Specific models & ratings for international approvals noted on General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

JWS21RAA



RATING

Power Level

6A @ 125/250V AC

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

BARRIER TYPES & COLORS



No Barrier

No-barrier type has a flat flange which is an integral part of the switch.





With Barrier

Barrier Material: Polyamide

Finish: Matte

Barrier AT219 is factory assembled. Dimensions for barrier are shown in the Accessories section.

Barrier Color Available:





CAP COLORS



Cap Material: Polyphenelene Oxide

Finish: Matte

Rocker cap is an integral part of the switch and not available separately. * Ivory for nonilluminated models only.

Cap Colors Available:



Black





HOUSING

Material: Polyamide

Finish: Matte

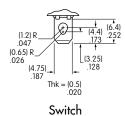
Colors Available:



Black

Ivory (for nonilluminated models only)

TERMINALS



Solder Lug/.187" (4.75mm) Quick Connect

Switch assembly with connectors is not UL, CSA, C-UL, or VDE approved.



Lamp (spot illuminated models only)





LED COLORS & SPECIFICATIONS FOR SPOT ILLUMINATED MODELS

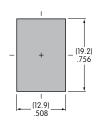
LEDs are supplied as an integral part of illuminated devices and are not available separately. LED polarity markings are on the bottom of the switch.

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.

(+)0		C	D	F	
ı	Color	Red	Amber	Green	
Forward Peak Current	I _{FM}	25mA	20mA	20mA	
Continuous Forward Curren	t I _F	20mA	1 <i>5</i> mA	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	$\Delta I_{_{\mathrm{F}}}$	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)

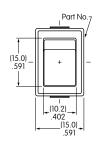
With Barrier:

.024" ~ .059" (0.6mm ~ 1.5mm)

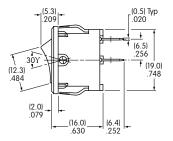
TYPICAL SWITCH DIMENSIONS

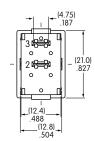
Nonilluminated • No Barrier





Single Pole

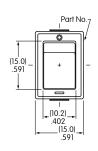




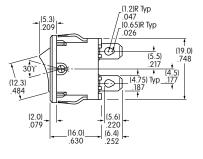
JWS11RCA

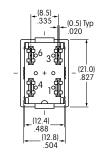
Nonilluminated • No Barrier





Double Pole





JWS21RAA

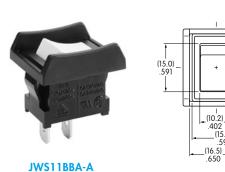
DPST models have IEC symbols for On-Off on the flange.





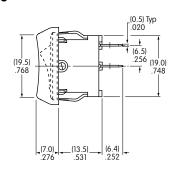
TYPICAL SWITCH DIMENSIONS

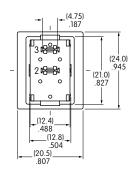
Nonilluminated • With Barrier



Single Pole

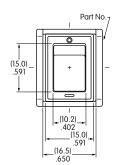
Part No.



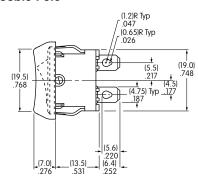


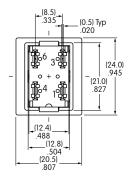
Nonilluminated • With Barrier





Double Pole





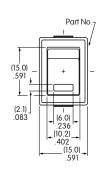
JWS21BAA-A

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

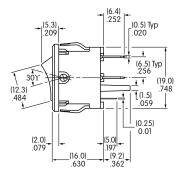
Spot Illuminated • No Barrier

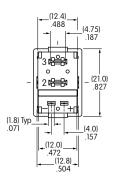


JWS11RCAF



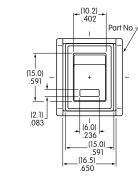
Single Pole





Spot Illuminated • With Barrier





Single Pole

