# **General Specifications**

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

Power Level: 10A @ 125/250V AC for JWM & JWMW models; 10A @ 30V DC for JWMW; 16A @ 125/250V AC for JWL & JWLW models; 5A @ 72V DC for telecommunication applications

#### Other Ratings

**Contact Resistance:** Insulation Resistance: **Dielectric Strength:** 

10 milliohms maximum for JWM & JWMW; 20 milliohms maximum for JWL & JWLW 1,000 megohms minimum @ 500V DC 2,000V AC minimum between contacts for 1 minute minimum; 4,000V AC minimum between contacts & case for 1 minute minimum 25,000 operations minimum 25,000 operations minimum JWM & JWMW Single Pole 3.92N & Double Pole 7.84N JWL Single Pole 5.00N & Double Pole 10.00N; JWLW Double Pole 10.00N 26°

Mechanical Life: Electrical Life: **Nominal Operating Force:** 

Angle of Throw:

#### **Materials & Finishes**

Rocker:	Polyphenylene ether (UL94V-0)	Contacts:	JWM & JWMW: Silver alloy with silver plating
g/Frame & Barrier:	Polyamide (UL94V-0)		JWL & JWLW: Silver alloy plus copper with
I for JWM & JWL:	Polyphenylene sulfide (UL94V-0)		silver plating
Case/Base:	Melamine (UL94V-0)	Terminals:	Brass with silver plating
in a manufall Data			

#### **Environmental Data**

Operating	Temperature	Range:
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Humidity: Vibration:

-25°C through +70°C (-13°F through +158°F) for JWM & JWL; -25°C through +85°C (-13°F through +185°F) for panel seal JWMW & JWLW 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 1 minute; 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) Shock: IP67 of IEC60529 standard for panel seal JWMW & JWLW models; dust resistant inner seal for others Sealing:

#### Installation

Housing Interior Seal

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

#### Standard

dards & Certifications	
	UL94V-0 for rocker, housing, seal & case/base of JWL, JWM, JWMW & JWLW models JWM (TV-5) Overload Test @ 120V AC for 50 operations: Steady State Current (rms) 7.5A; Minimum Inrush Current (peak) 111A. JWM (TV-5) Endurance Test @ 120V AC for 25,000 operations: Steady State Current (rms) 5A; Minimum Inrush Current (peak) 78A. JWL (TV-8) Overload Test @ 120V AC for 50 operations: Steady State Current (rms) 12A; Minimum Inrush Current (peak) 163A. JWL (TV-8) Endurance Test @ 120V AC for 25,000 operations: Steady State Current (rms) 8A; Minimum Inrush Current (peak) 117A.
UL:	File No. E44145 JWM & JWMW models recognized at 10A @ 250V AC. JWMW recognized at 10A @ 30V DC. JWL & JWLW models recognized at 16A @ 250V AC; JWL at 5A @ 72V DC.
	Models below recognized only when ordered with marking on switch. JWMW: 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. JWL: add "/U-DC" to end of part number to request UL rating on DC rated switch.
CSA:	File No. 023535_0_000 JWM & JWMW models certified at 10A @ 250V AC; JWL models certified at 16A @ 250V AC
VDE:	

Note: JWM & JWL Double Pole, Single Throw models approved only with the international ON-OFF symbols on the actuator.



Toggles

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Touch

Supplement Accessories Indicators

#### High Inrush 10 & 16 Amp Rockers

# **Distinctive Characteristics**

Industry's first molded rocker with TV rating. Designed to handle large inrush current, with high electrical capacity of 10 and 16 Amps. JWM models certified for TV-5 rating and JWL models for TV-8 rating.

JWMW and JWLW panel seal versions meet IP67 of IEC60529 Standards (similar to NEMA 4 and 6).

Prominent external insulating barriers increase insulation resistance and dielectric strength.

Uniquely constructed to break light contact welds.

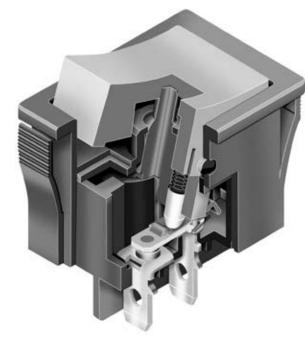
Increased electrical life with specially designed plate to minimize contact bounce.

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

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

Solder lug/quick connect terminals can be used with connector.

Housing and case of heat resistant resin meet UL94V-0 standard.





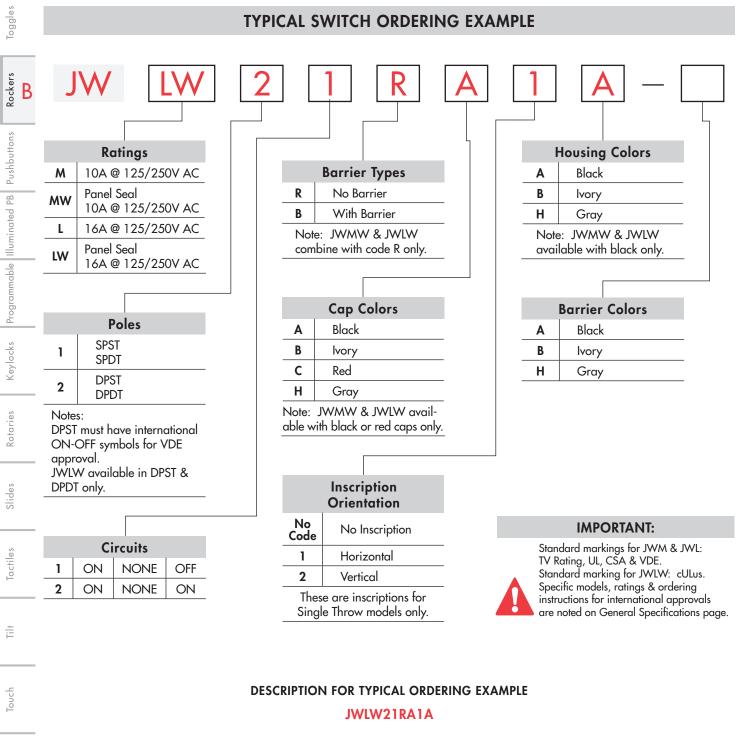


Toggle:

**Series JW** 

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Black Rocker Cap with International ON-OFF Symbols in Horizontal Orientation

> DPST ON-NONE-OFF Circuit

> > SWITCHES

Black Housing

16A @ 125/250V AC

www.nkkswitches.com

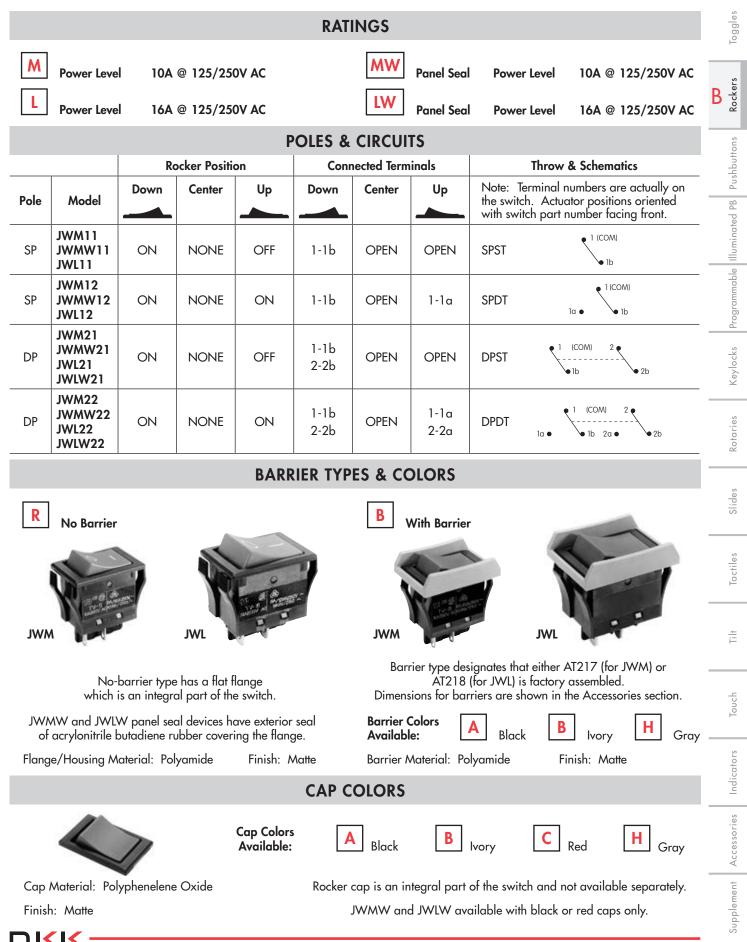
Indicators

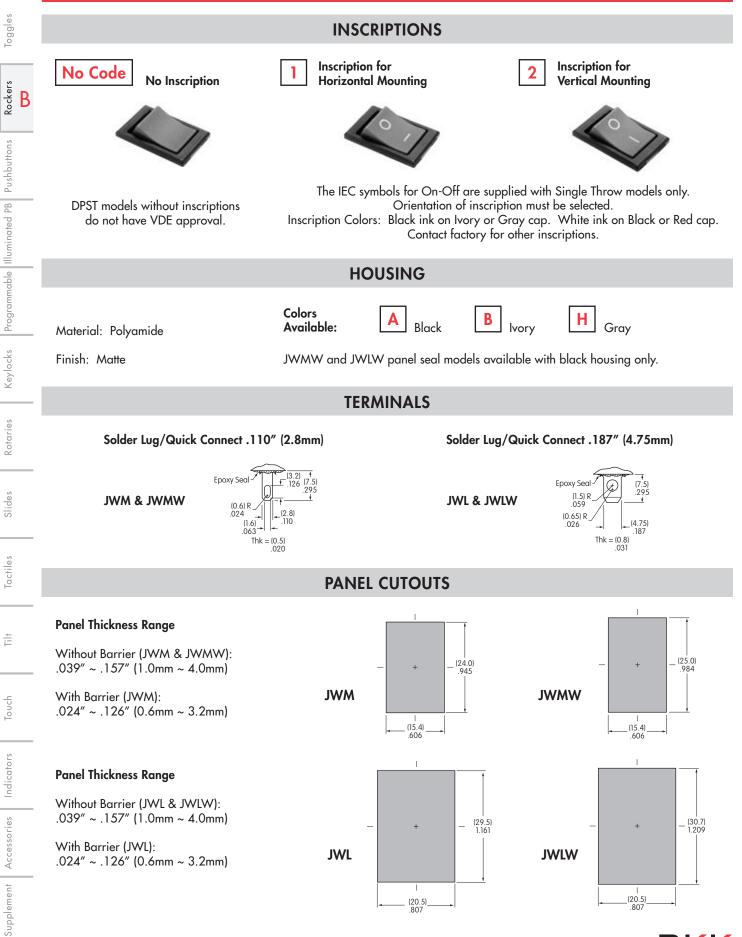
Supplement Accessories

#### High Inrush 10 & 16 Amp Rockers

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### Series JW





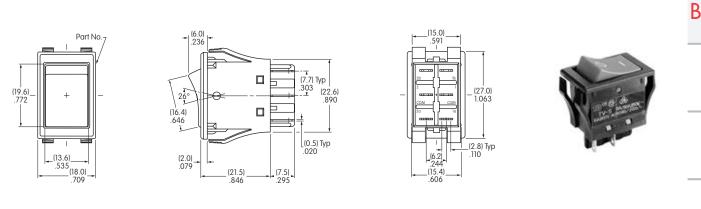
#### **TYPICAL SWITCH DIMENSIONS FOR JWM & JWMW**

Single & Double Pole

#### No Barrier • 10 Amp

Toggles

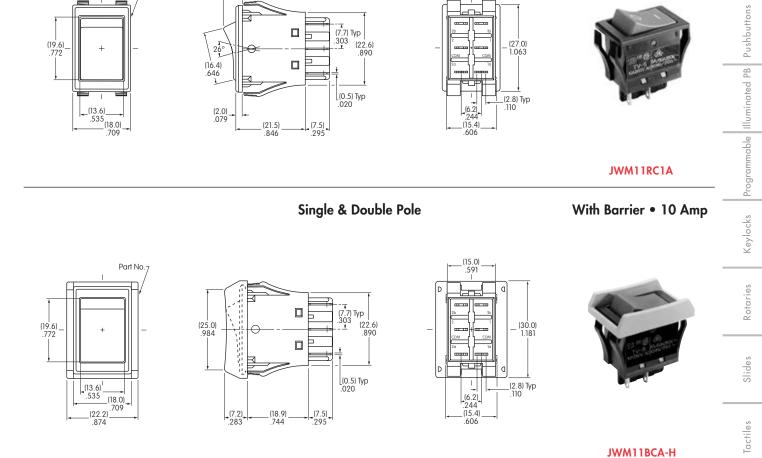
Rockers



JWM11RC1A

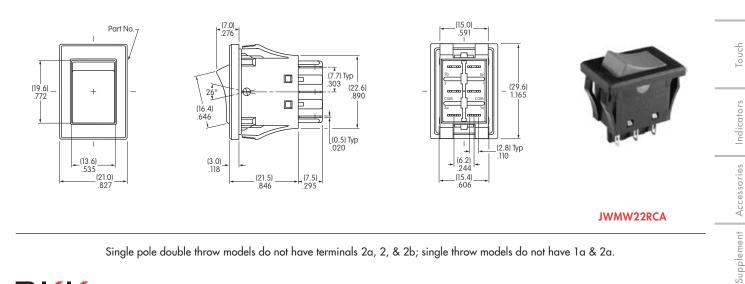
Single & Double Pole

With Barrier • 10 Amp



#### Single & Double Pole

Panel Seal • No Barrier • 10 Amp



Single pole double throw models do not have terminals 2a, 2, & 2b; single throw models do not have 1a & 2a.



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#### **TYPICAL SWITCH DIMENSIONS FOR JWL & JWLW**

#### No Barrier • 16 Amp

Toggles

Keylocks

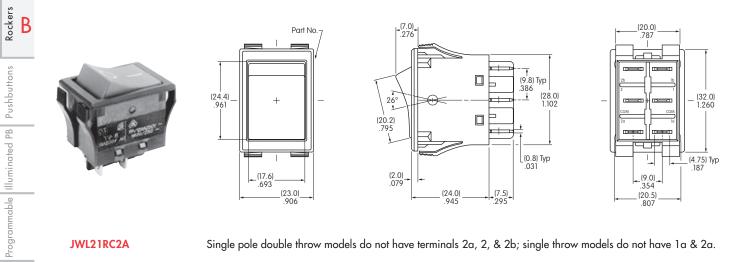
Rotaries

Slides

Tactiles

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#### Single & Double Pole

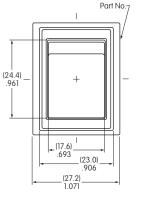


JWL21RC2A

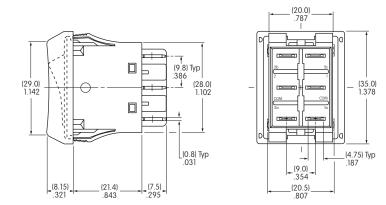
Single pole double throw models do not have terminals 2a, 2, & 2b; single throw models do not have 1a & 2a.

#### With Barrier • 16 Amp





#### Single & Double Pole

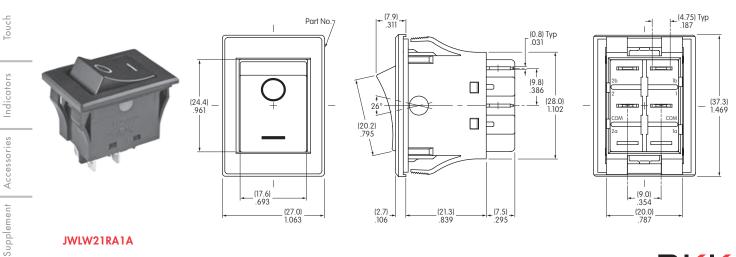


JWL11BCA-H

Single pole double throw models do not have terminals 2a, 2, & 2b; single throw models do not have 1a & 2a.



#### **Double Pole Single Throw**

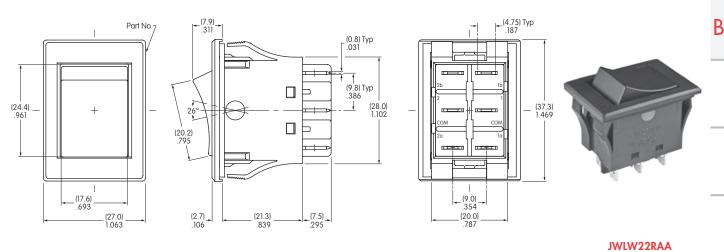




# Amp Rockers Series JW TYPICAL SWITCH DIMENSIONS FOR JWLW

### Double Pole Double Throw

#### Panel Seal • 16 Amp • No Inscription



#### **OPTIONAL DUST COVER**

#### AT4126 Dust Cover for JWL Rocker

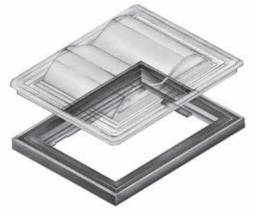
When installed, the Dust Cover protects the switch from an environment containing small particles and dust. The switch is operable with the Dust Cover in place.

#### Materials:

Lid: Clear Polyvinyl Chloride Base: Black Polyamide

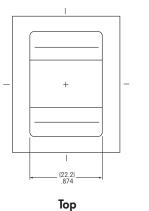
#### Recommended Temperature Range:

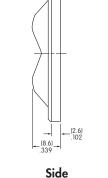
-10° ~ +70°C (+14°F ~ +158°F) Loses pliability below 0°C (+32°F)

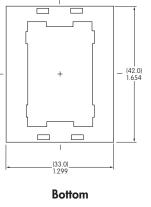


#### Recommended Panel Thickness:

.031" ~ .134" (0.8mm ~ 3.4mm)





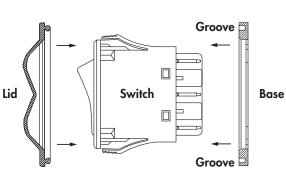


#### Notes

- 1. The dust cover is not for use with JWLW.
- 2. The dust cover cannot be used with the barrier option.

#### Assembly Instructions:

- 1. Insert bottom of switch through the **base** until the tabs lock into place.
- 2. Snap the switch into the panel.
- 3. Seat the **lid** into the **grooves** of the **base**.



Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

**Factiles** 

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Indicators



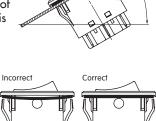
#### PRECAUTIONS FOR HANDLING & STORAGE FOR JWMW/LW (PANEL SEAL TYPES)

#### **Operating Environment**

- Do not install switch where heavy dust collection occurs. Dust build-up under rocker may affect switch actuation.
- Do not actuate switch if submerged in water or oil.
- Installation is not recommended on horizontal surface in an environment where frequent splashing of
  water may occur. In such an environment, a minimum 30° angle installation is advisable. If there is
  a possibility of freezing, install vertically so no moisture will be retained within switch housing.

#### **Panel Mounting**

- Before snapping a switch into the panel, align the gasket evenly under bezel of the switch.
- When mounting into a panel, apply equal pressure to sides of bezel and insert parallel to panel.
- After mounting a switch, be sure there are no gaps between switch and panel. Lightly push into panel.
- After installing into panel, do not apply excessive force.
- After panel installation and wiring is completed, do not apply force horizontally or vertically from behind panel.
- Behind the panel, cut area should be squared. If front of panel is painted, do not allow any paint to collect in corners of cutout to prevent level mounting.
- Avoid reinstalling a switch once it has been mounted in a panel. This may cause deterioration of panel sealability.





Slides

**Factiles** 

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Touch

Indicators

Supplement Accessories

Toggles

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