Series JW

General Specifications

Electrical Capacity (Resistive Load)			
	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:	e: 10 milliohms maximum for JWM & JWMW; 20 milliohms maximum for JWL & JWLW		
Insulation Resistance:	1,000 megohms minimum @ 500V DC		
Dielectric Strength:	2,000V AC minimum between contacts for 1 minute minimum;		
Ũ	4,000V AC minimum between contacts & case for 1 minute minimum		
Mechanical Life:	25,000 operations minimum		
Electrical Life:	25,000 operations minimum		
Nominal Operating Force:	JWM & JWMW Single Pole 3.92N & Double Pole 7.84N JWL Single Pole 5.00N & Double Pole 10.00N; JWLW Double Pole 10.00N		
Angle of Throw:	26°		
Materials & Finishes			
Rocker:	Polyphenylene ether (UL94V-0)	Contacts:	JWM & JWMW: Silver alloy with silver plating
Housing/Frame & Barrier:	Polyamide (UL94V-0)		JWL & JWLW: Silver alloy plus copper with
Interior Seal for JWM & JWL:	Polyphenylene sulfide (UL94V-0)		silver plating
Case/Base:	Melamine (UL94V-0)	Terminals:	Brass with silver plating
Environmental Data			
Operating Temperature Range:	-25°C through +70°C (-13°F through +158°F) for JWM & JWL;		
Line idite o	-25°C through +85°C (-13°F through +185°F) for panel seal JWMW & JWLW models		
Humidity: Vibration:	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		
Vibranon.	in 1 minute; 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:	IP67 of IEC60529 standard for panel seal JWMW & JWLW models; dust resistant inner seal for others		
Installation			
Soldering Time & Temperature:	Manual Soldering: See Profile A in Supplement section.		
Standards & Certifications	ions		
Flammability Standards:	UL94V-0 for rocker, housing, seal & case/base of JWL, JWM, JWMW & JWLW models		
TV Ratings for UL & CSA:	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.		
111.			
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 nun	nber to reque	est UL rating on DC rated switch.
CSA:	File No. 023535_0_000		
VDE:	JWM & JWMW models certified at 10A @ 250V AC; JWL models certified at 16A @ 250V AC License No. 115674		
VDE:	JWM models approved at steady state 5A, inrush 80A, resistive 10A, & motor load 6A all at		
	250V AC; JWL models approved at steady state inrush 128A, resistive 16A, & motor load 8A		
	all at 250V AC.		
	Note: JWM & JWL Double Pole, Singl ON-OFF symbols on the actuator.	le Throw moo	lels approved only with the international



Slides

Tactiles

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Touch

Indicators

Supplement Accessories

Toggles

Foggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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Touch

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.

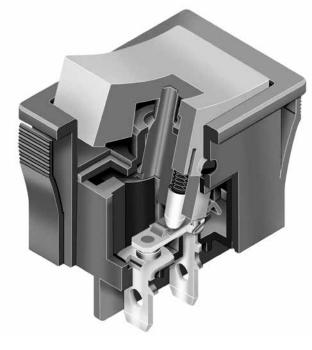
Increased electrical life with specially designed plate to minimize contact bounce.

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.

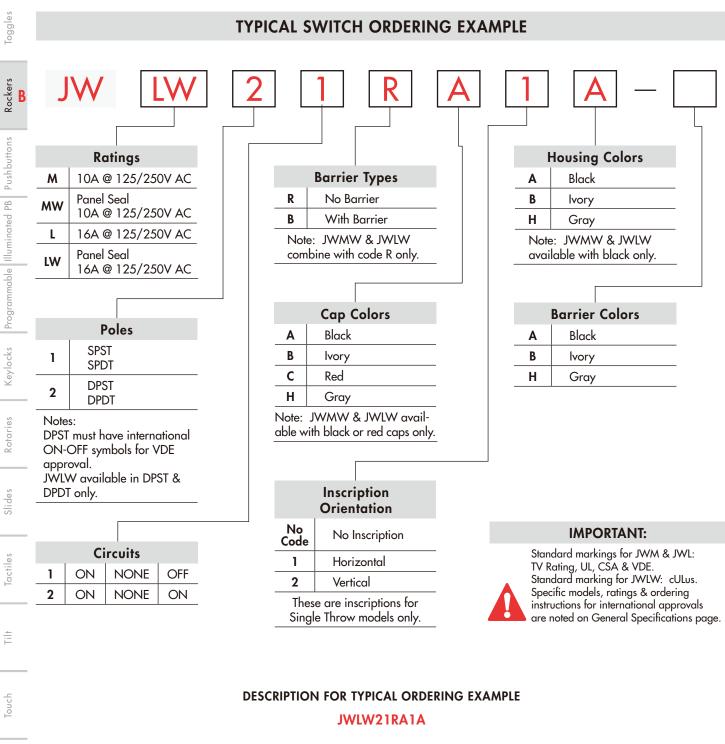






Actual Size JWM

Series JW





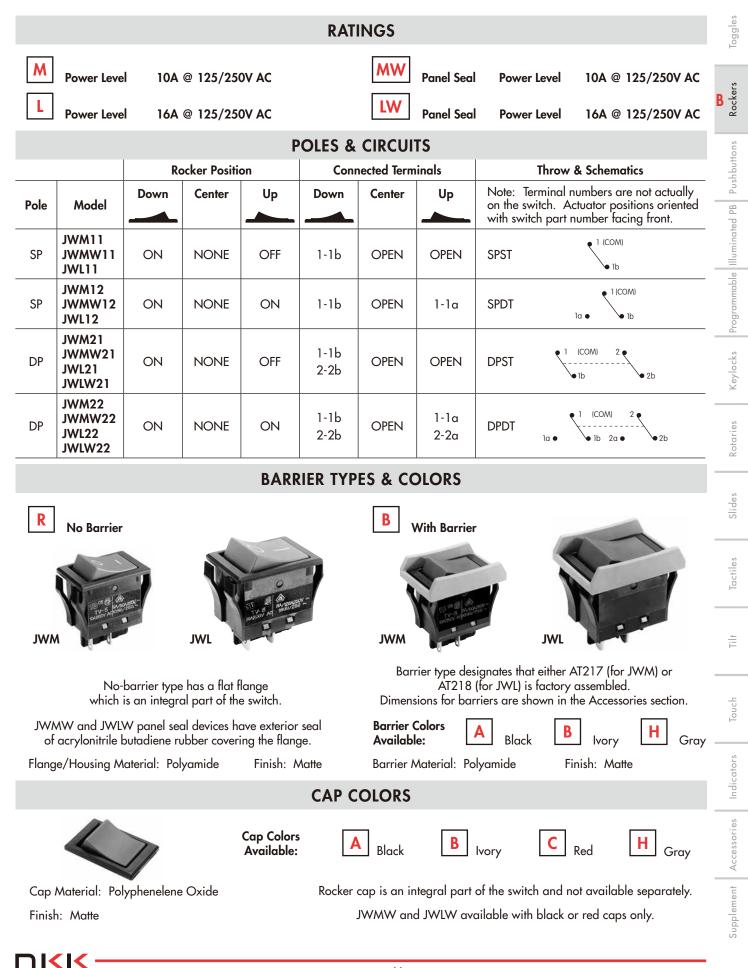
Indicators

Accessories

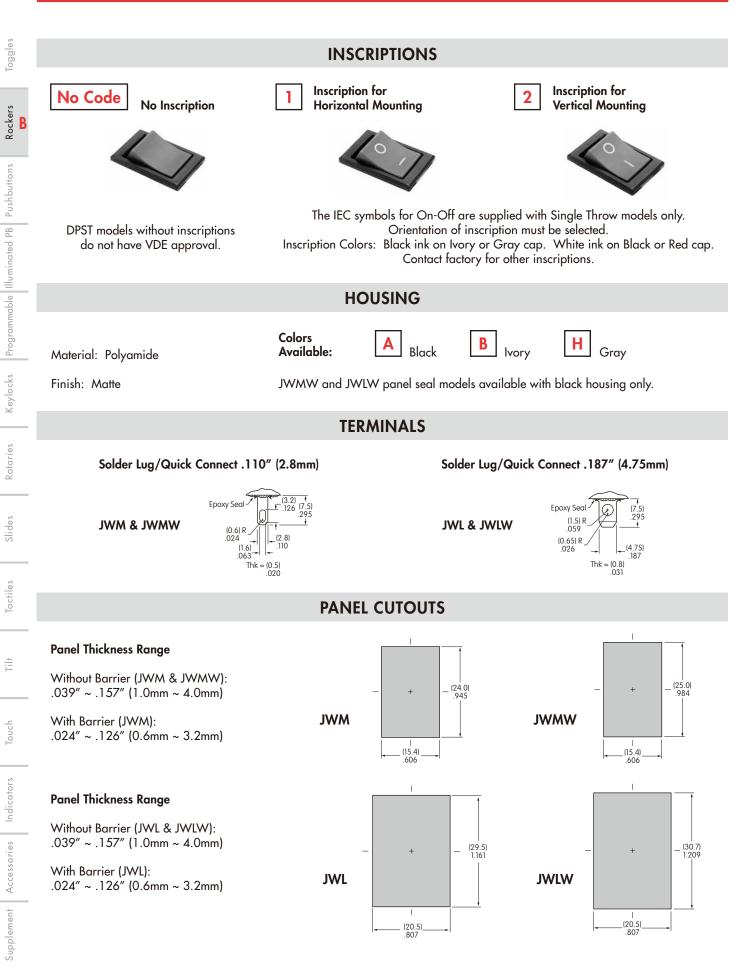
Supplement

CHES

Series JW



Series JW



Part No.

_(13.6)_____ .535_____(18.0)_____ .709

(19.6)

(6.0) .236

26° (16.4) .646

(2.0) .079

(7.5) .295

(21.5) .846

(15.0)

(15.4) .606

(27.0)

_(2.8) Typ .110

Single & Double Pole

(7.7) Typ .303 (2

(0.5) Typ .020

Single & Double Pole

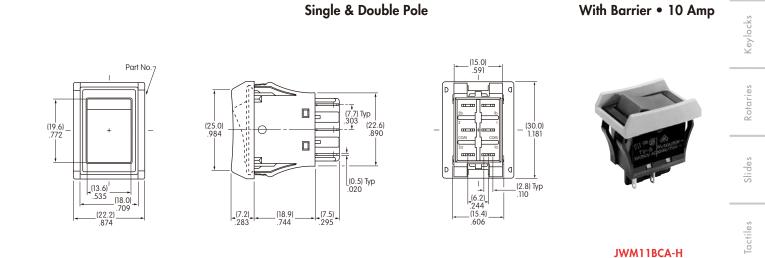
(22.6)

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JWM11RC1A

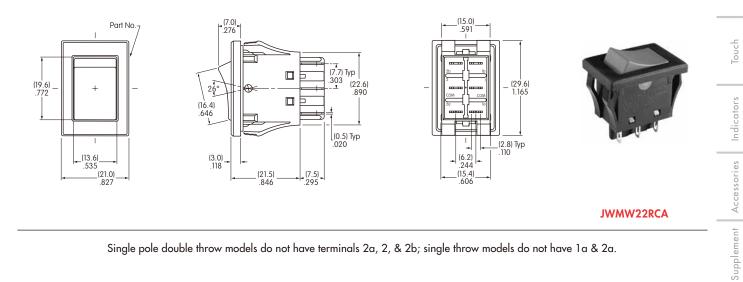
Series JW

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.



TYPICAL SWITCH DIMENSIONS FOR JWL & JWLW

No Barrier • 16 Amp



Toggles

Programmable Illuminated PB Pushbuttons

Keylocks

Rotaries

Slides

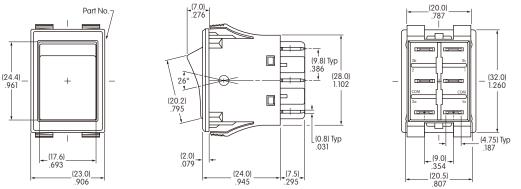
Tactiles

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(24.4) .961 _(17.6) .693

Part No.-

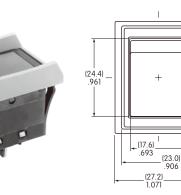
Single & Double Pole



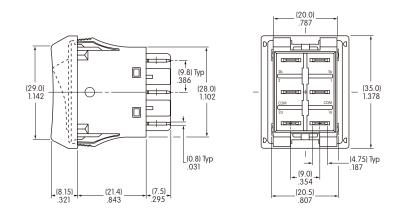
JWL21RC2A

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

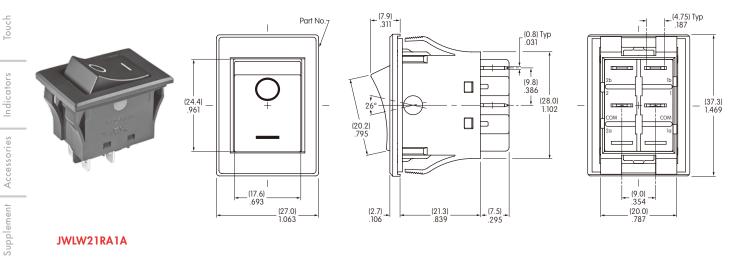


JWL11BCA-H

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









JWLW22RAA

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

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Touch

Indicators

Accessories

Supplement

B

TYPICAL SWITCH DIMENSIONS FOR JWLW **Double Pole Double Throw** Panel Seal • 16 Amp • No Inscription (4.75) Typ .187 -(7.9) .311 Part No.-(0.8) Typ .031 (9.8) Typ .386 (28.0) 1.102 (24.4) .961 (37.3) ł 26 (20.2) (17.6 (9.0) 693 (21.3) .839 (27.0) (2.7) (20.0) (7.5)

OPTIONAL DUST COVER

Recommended Temperature Range: $-10^{\circ} \sim +70^{\circ}C (+14^{\circ}F \sim +158^{\circ}F)$

Loses pliability below 0°C (+32°F)

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.

2.6

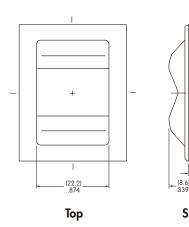
Side

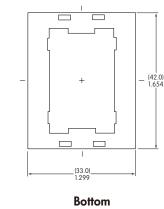
Materials:

Lid: Clear Polyvinyl Chloride Base: Black Polyamide

Recommended Panel Thickness:

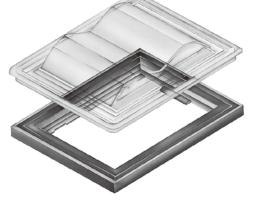
.031" ~ .134" (0.8mm ~ 3.4mm)





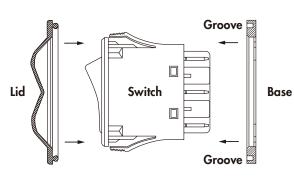
Notes

- 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**.



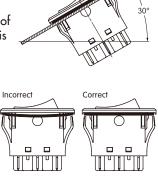
PRECAUTIONS FOR HANDLING & STORAGE FOR JWMW/LW (PANEL SEAL TYPES)

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.





Foggles



Supplement

