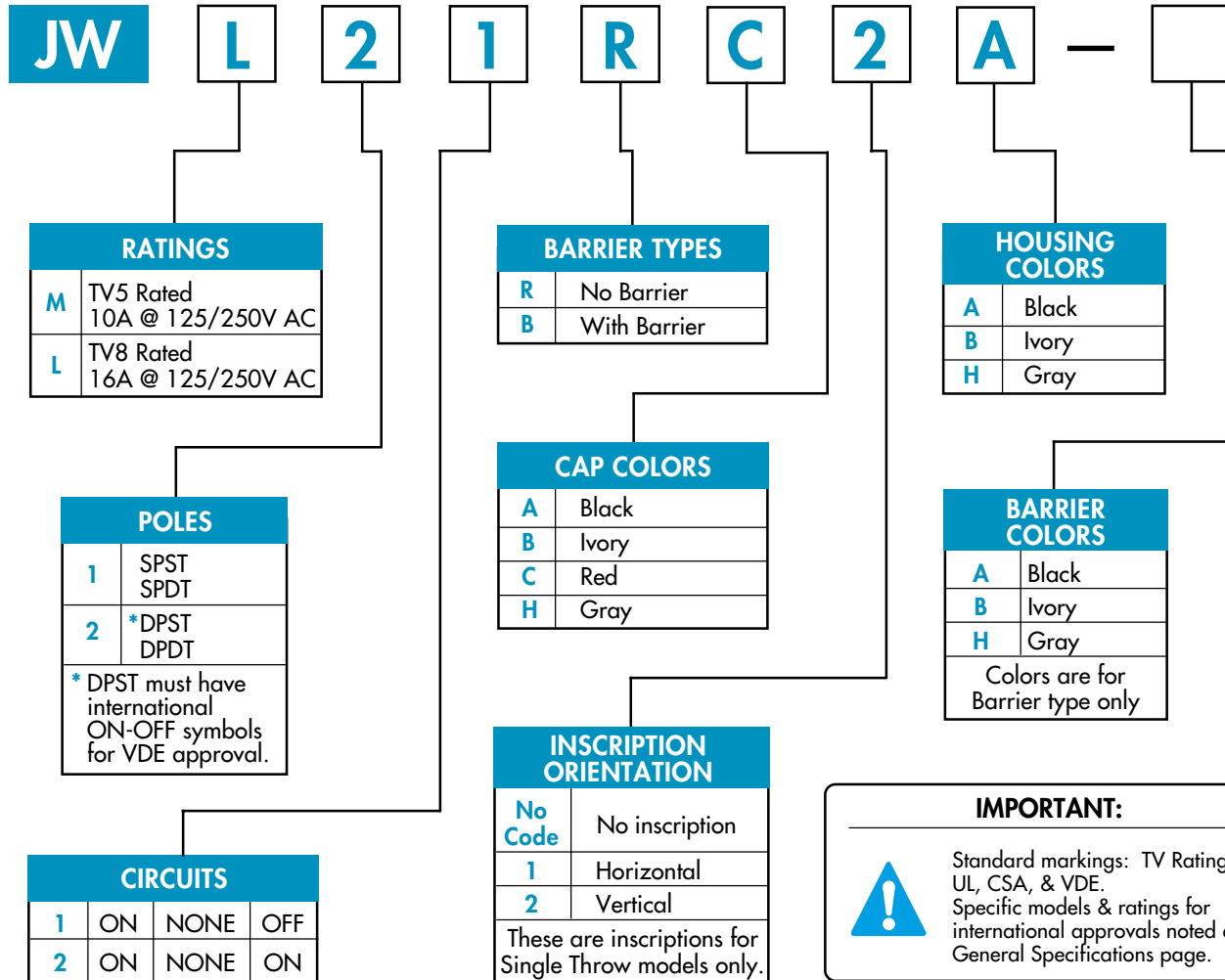




# Series JW

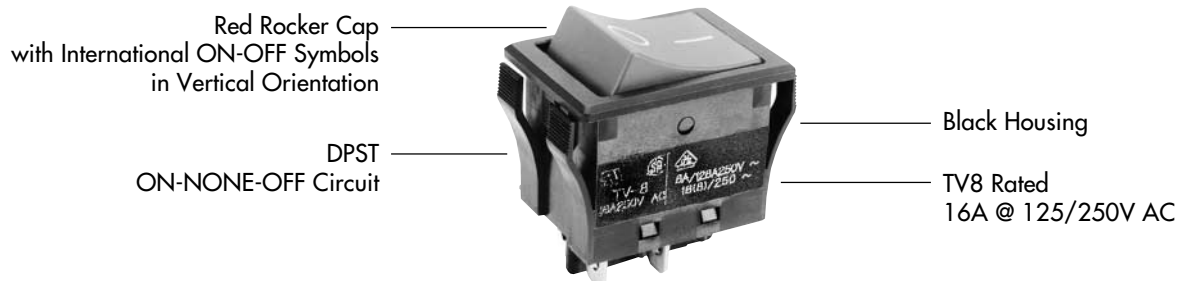
Internationally Approved Rocker Switches

## TYPICAL SWITCH ORDERING EXAMPLE



### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

**JWL21RC2A**





## GENERAL SPECIFICATIONS

### Electrical Capacity (Resistive Load)

**Power Level:** 10A @ 125/250V AC for JWM models  
16A @ 125/250V AC for JWL models

### Other Ratings

**Contact Resistance:** 10 milliohms maximum for JWM; 20 milliohms maximum for JWL  
**Insulation Resistance:** 1,000 megohms minimum @ 500V DC  
**Dielectric Strength:** 2,000V AC minimum between contacts; 4,000V AC minimum between contacts & case  
**Mechanical Life:** 25,000 operations minimum  
**Electrical Life:** 25,000 operations minimum  
**Nominal Operating Force:** JWM Single Pole 340 grams & Double Pole 720 grams  
JWL Single Pole 360 grams & Double Pole 690 grams  
**Angle of Throw:** 26°

### Materials & Finishes

**Housing/Frame:** Polyamide  
**Barrier:** Polyamide  
**Interior Seal:** Polyphenylene sulfide  
**Case/Base:** Phenolic resin  
**Movable Contacts:** Silver alloy with silver plating  
**Stationary Contacts:** Silver alloy with silver plating  
**Terminals:** Brass with silver plating

### Environmental Data

**Operating Temp Range:** -25°C through +70°C (-13°F through +158°F)  
**Humidity:** 90 ~ 95% humidity for 96 hours @ 40°C (104°F)  
**Vibration:** 10 ~ 500Hz 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 acceleration (tested in 6 right angled directions, with 5 shocks in each direction)  
**Process Seal:** Dust resistant inner seal

### Installation

**Soldering Time & Temperature:** 3 seconds @ 350°C

### Standards & Certifications

**Flammability Standards:** UL94V-0 for housing/frame & case/base of JWL models  
**UL Recognized:** All JWM models recognized at 10A @ 250V AC, TV5 & all JWL models recognized at 16A @ 250V AC, TV8; UL File No. E44145  
**CSA Certified:** All JWM models certified at 10A @ 250V AC, TV5 & all JWL models certified at 16A @ 250V AC, TV8; CSA File No. LR23535  
**VDE Approved:** All JWM models approved at steady state 5A, inrush 80A, resistive 10A, & motor load 6A all at 250V AC; VDE License No. 68746; all JWL models approved at steady state 8A, inrush 128A, resistive 16A, & motor load 8A all at 250V AC; VDE License No. 62493  
Note: JWM & JWL Double Pole, Single Throw models approved only with the international on-off symbols on the actuator.







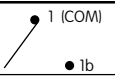
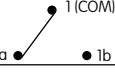
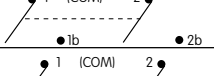
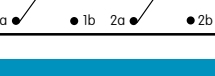
# Series JW

Internationally Approved Rocker Switches

## RATINGS

<b>M</b>	TV5 Rated	Power Level	10A @ 125/250V AC
<b>L</b>	TV8 Rated	Power Level	16A @ 125/250V AC
Note: See Engineering Particulars page to find complete explanation of TV ratings.			

## POLES & CIRCUITS

		Rocker Position			Connected Terminals			Throw & Schematics
Pole	Model	Down 	Center	Up 	Down 	Center	Up 	Note: Terminal numbers are shown on the switch. Actuator positions oriented with switch part number facing front.
SP	JWM11 JWL11	ON	NONE	OFF	1-1b	OPEN	OPEN	SPST 
SP	JWM12 JWL12	ON	NONE	ON	1-1b	OPEN	1-1a	SPDT 
DP	JWM21 JWL21	ON	NONE	OFF	1-1b 2-2b	OPEN	OPEN	DPST 
DP	JWM22 JWL22	ON	NONE	ON	1-1b 2-2b	OPEN	1-1a 2-2a	DPDT 

## BARRIER TYPES & COLORS

**R** No Barrier



No-barrier type R has a flat flange which is an integral part of the switch. This housing is molded polyamide matte finish material.

**B** With Barrier

Barrier Material:  
Polyamide  
Finish: Matte



Barrier type B designates that either AT217 (for JWM) or AT218 (for JWL) is factory assembled. Dimensions for barriers are shown in the Accessories section.

**Barrier Colors Available:**

**A**

Black

**B**

Ivory

**H**

Gray

## CAP COLORS



Cap Material:  
Polyphenylene  
Oxide  
Finish: Matte

Rocker cap is an integral part of the switch and not available separately.

**Cap Colors Available:**

**A**

Black

**B**

Ivory

**C**

Red

**H**

Gray



# Series JW

Internationally Approved Rocker Switches

## INSCRIPTIONS

**No Code**

No Inscription



DPST models without inscriptions do not have VDE approval.

**1**

Inscription for Horizontal Mounting



**2**

Inscription for Vertical Mounting



The IEC symbols for On-Off are supplied with Single Throw models only. Orientation of inscription must be selected. Inscription Colors: Black ink on Ivory or Gray cap. White ink on Black or Red cap. Contact factory for other inscriptions.

## HOUSING

Material: Polyamide  
Finish: Matte

Colors Available:



Black



Ivory



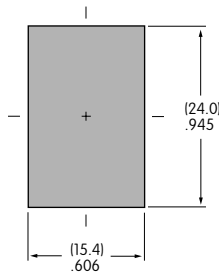
Red



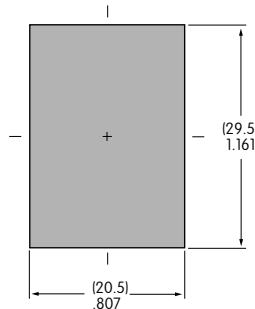
Gray

## PANEL CUTOUTS

For JWM Rockers



For JWL Rockers



Panel Thickness Range:

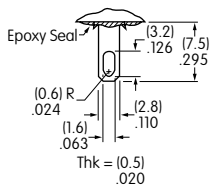
Without Barrier:

1.0mm ~ 4.0mm (.039" ~ .157")

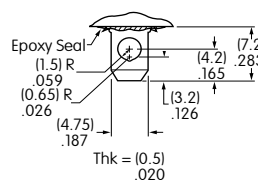
With Barrier:

0.6 mm ~ 3.2mm (.024" ~ .126")

## TERMINALS



**Wiring for JWM Solder Lugs**  
1.6mm x 3.2mm terminal hole accommodates 2 solid or stranded 16-gauge wires.



**Wiring for JWL Solder Lugs**  
The pear shaped 3mm dia. terminal hole accommodates 1 solid 10-gauge wire or 2 stranded 18-gauge wires.

These solder lug terminals can be used with connectors; however, this switch assembly with connectors is not UL, CSA, or VDE approved.



# Series JW

Internationally Approved Rocker Switches

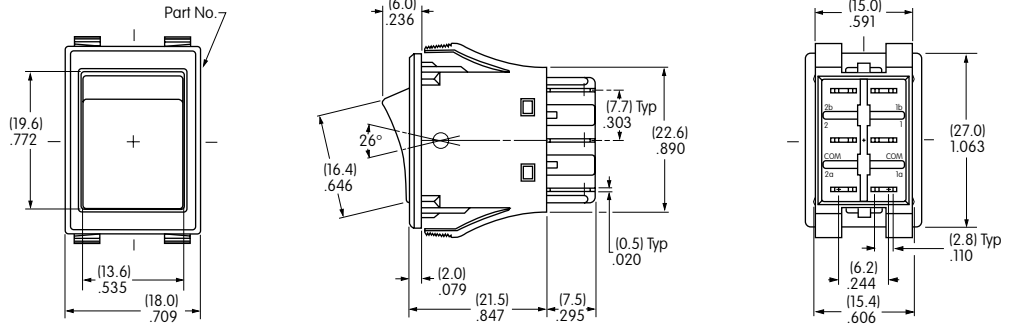
## TYPICAL SWITCH DIMENSIONS

### TV 5 No Barrier • 10 Amp



JWM11RC1A

### Single & Double Pole

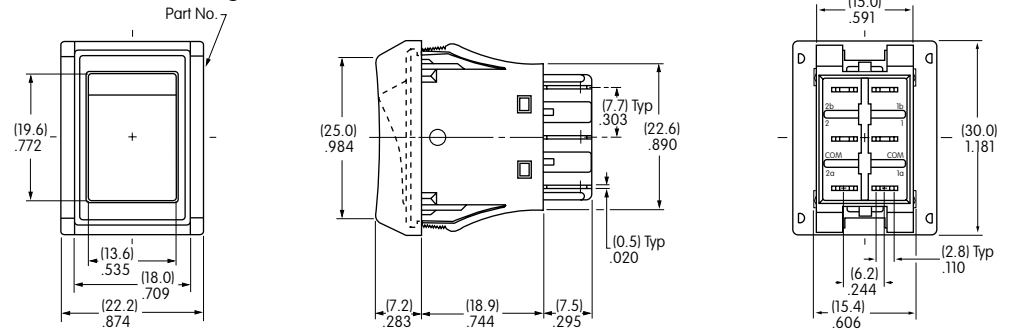


### TV 5 With Barrier • 10 Amp



JWM11BAA-H

### Single & Double Pole

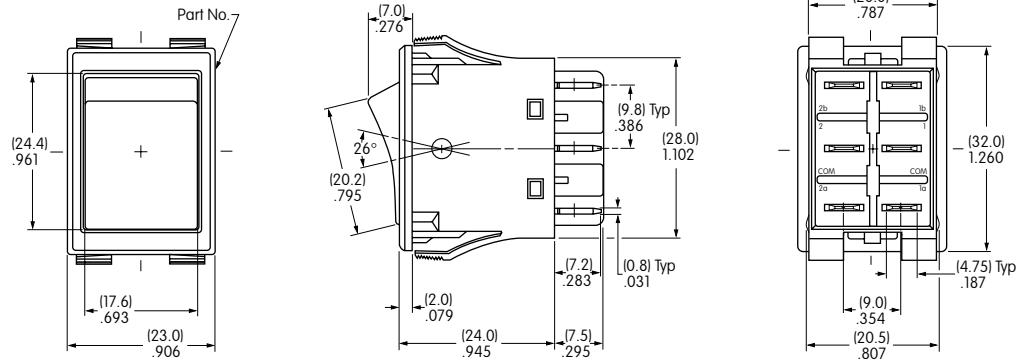


### TV 8 No Barrier • 16 Amp



JWL21RC2A

### Single & Double Pole

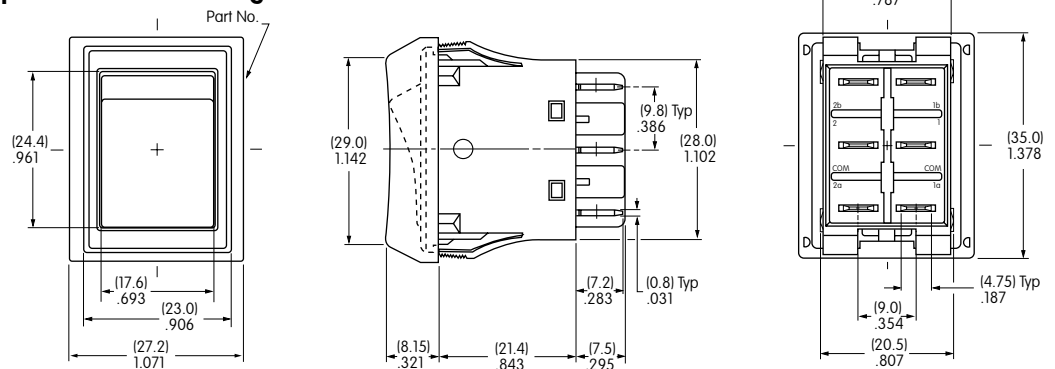


### TV 8 With Barrier • 16 Amp



JWL11BAA-H

### Single & Double Pole



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



## WATERTIGHT BOOT

### AT4126

#### Watertight Boot for JWL Rocker

Lid: Clear Polyvinyl Chloride

Base: Black Polyamide

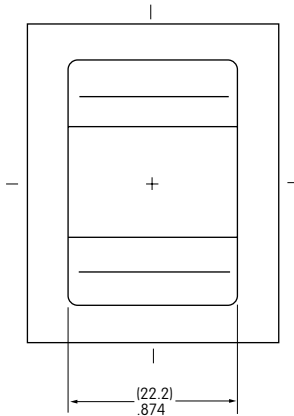
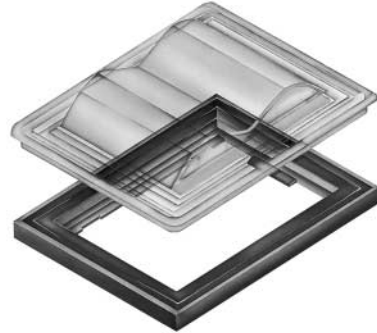
Recommended Temperature Range:

-10°C ~ +70°C (+14°F ~ +158°F)

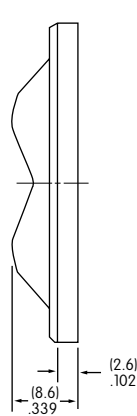
Loses pliability below 0°C (32°F)

Recommended Panel Thickness:

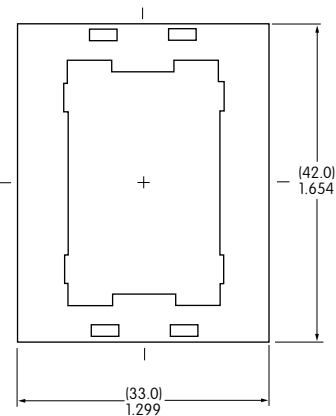
0.8mm ~ 3.4mm (.031" ~ .134")



Top



Side



Bottom

#### 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**.

