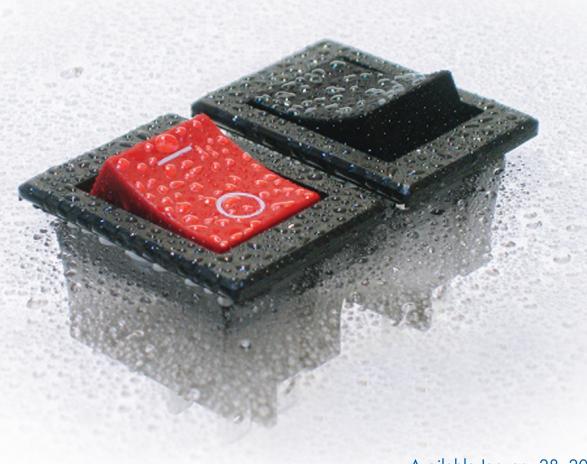


JWLW Rockers

16 Amp Double Pole CircuitIP67 Panel Seal Molded Rocker



Available January 28, 2009





General Specifications

Electrical Capacity (Resistive Load)

16A @ 125/250V AC Power Level:

Other Ratings

20 milliohms maximum **Contact Resistance:**

Insulation Resistance: 1,000 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: 25,000 operations minimum **Electrical Life:** 25,000 operations minimum

10.00N **Nominal Operating Force:**

> Angle of Throw: 26°

Materials & Finishes

Rocker: Polyphenylene ether (UL94V-0)

Housing/Frame: Polyamide (UL94V-0) Case/Base: Melamine (UL94V-0)

Movable Contacts: Silver alloy with silver plating **Stationary Contacts:** Silver alloy with silver plating

Terminals: Brass with silver plating

Environmental Data

-25°C through +85°C (-13°F through +185°F) **Operating Temperature Range:**

> **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 1 minute; 3 right angled directions for 2 hours

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

Sealing: IP67 of IEC60529 standard for panel seal

Installation

Soldering Time & Temperature: Manual Soldering: 390°C maximum for 4 seconds maximum.

Standards & Certifications

Flammability Standards: UL94V-0

cULus Recognized: Recognized at 16A @ 250V AC; UL File No. E44145



Distinctive Characteristics

High electrical capacity of 16 Amps.

Conforms to IP67 of IEC60529 Standards for panel seal with snap-in installation.

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

Prominent external insulating barriers between terminals increase insulation resistance and dielectric strength.

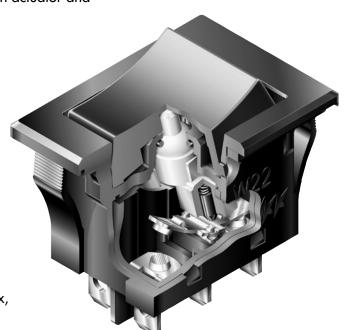
Specially designed to break light contact welds.

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

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

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.



APPLICATIONS

The JWLW Rockers complement multiple applications, including:

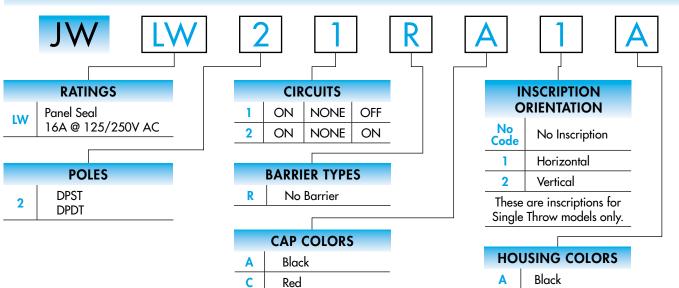
- Energy management
- Industrial equipment/machine tools
- Construction machinery
- Transportation
- Restaurant equipment
- Medical equipment
- **Telecommunications**

Actual Size









DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

JWLW21RA1A



IMPORTANT:



All JWLW Rockers have cULus marking.

RATINGS

LW **Panel Seal**

Power Level

16A @ 125/250V AC

POLES & CIRCUITS Rocker Position Connected Terminals **Throw & Schematics** Note: Terminal numbers are actually on Down Center Up Down Center Up Pole Model the switch. Actuator positions oriented with switch part number facing front. (COM) 1-1b DP JWLW21 ON NONE OFF **OPEN OPEN DPST** 2-2b • 1b • 2b • 1 (COM) 1-1b 1-1a JWLW22 DP ON NONE ON **OPEN DPDT** 2-2b 2-2a • 1b 2a • **●** 2b

CAP COLORS



Cap Material: Polyphenelene Oxide **Cap Colors** Available:



Black



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





INSCRIPTIONS

No Code

(24.4)

961

No Inscription



Part No.

Inscription for **Horizontal Mounting**



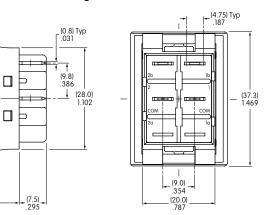
Inscription for Vertical Mounting



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

TYPICAL SWITCH DIMENSIONS

Double Pole Single Throw



16 Amp • Inscription

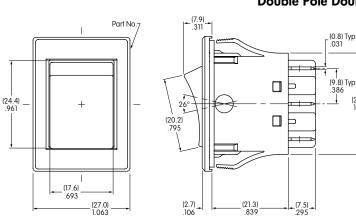


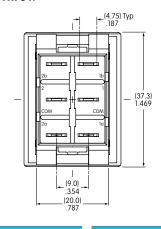
Single Throw models do not have terminals 1a and 2a.

(28.0) 1.102

JWLW21RA1A

Double Pole Double Throw







16 Amp • No Inscription

JWLW22RAA

HOUSING

Color Available: Black

Material: Polyamide

Finish: Matte

TERMINALS

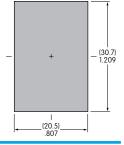
Solder Lug/ .187" (4.75mm)**Quick Connect** (0.65) R .026

Thk = (0.8) .031

PANEL CUTOUT

Panel Thickness Range

.039" ~ .157" $(1.0mm \sim 4.0mm)$

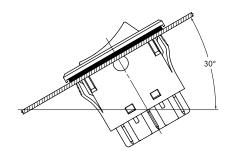




PRECAUTIONS FOR HANDLING & STORAGE

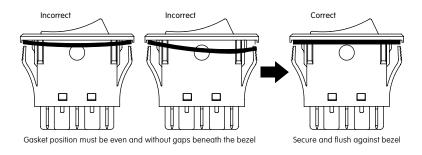
Operating Environment

- 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.

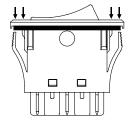


Panel Mounting

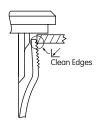
 Before snapping a switch into the panel, align the gasket evenly under bezel of the switch.



 When mounting into a panel, apply equal pressure to sides of bezel and insert parallel to the 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.





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