



L-Series

Sealed Rocker Switches

PRODUCT WEBPAGE

request sample, configure part, watch video



The L-Series snap-in rocker switches offer countless unique options including choices for ratings, colors, illuminations and laser etched legends. These single or double pole switches feature a broad choice of actuator styles, colors, and lenses.



1-2 .4-20 Poles Amps





Typical Applications

Construction

• Agriculture

• On-Highway

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Design Features

LED LIGHTING

Utilize less current and are not affected by vibration, providing long lasting illumination. Available in 3 standard colors.

SEAL PROTECTION

Locks out elements such as water, dust & debris. Sealed to IP67 for Above-Panel Components

TERMINALS

Available with 2 industry standard termination options: .250 or .187 tabs with up to 12 terminal options.

LENS & LEGENDS

Lens available in 2 sizes and 6 standard colors in either translucent or transparent materials. Numerous symbols and text available for imprinting or laser etching.

ACTUATOR

Available in rocker or paddle styles. Several standard color options also available.

ROLLER PIN

Eliminates need for lubricants, increasing the temperature range of the switch from -40° C to +85°C [-40° F to 185° F].

BASE

Fits into industry standard mounting hole of 1.734 x .867 in [44.0mm x 22.0mm].

Tech Specs

Electrical

4VA @ 24VDC (MAX) resistive 15 amps, 125VAC 10 amps, 250VAC 20 amps, 4-14VDC 15 amps, 15-28VDC
1250 Volts RMS between pole to pole 3750 Volts RMS between live parts and accessible surfaces
50 Megohms
10 milliohms max. @ 4 VDC
Up to 100,000 cycles maintained, 50,000 cycles momentary circuit and load dependent
90/10 silver-nickel, silver tin-oxide, gold
Brass or copper/silver plate 3/16" (4.76mm) & 1/4" (6.3mm) Quick Connect terminations standard.

Physical

Lighted	Incandescent - rated 10,000 hours LED - rated 100,000 hours 1/2 life (LED is internally ballasted for voltages to 24 VDC)
Seals	Rocker, base & bracket are sealed.
Base	Nylon 66 GF rated to 85°C with a flammability rating of 94V0.
Actuator	Basic actuator structure molded of thermoplastic polycarbonate with a hard Nylon 66 thermoplastic surface overlay.
Locks	Acetal
Lens	Polycarbonate rated at 100°C
Function	2 & 3 Position Rocker Style
Bracket	Nylon Zytel
Connector	Nylon 66 rated at 85°C. Polarized.

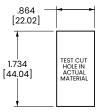
Actuator Travel (Angular Displacement)

2 Position	26°
3 Position	13º from center

Environmental

Sealing	IP67, for above-panel components of actual switch only						
Corrosion	Mixed Flowing Gas MFG Class III per ASTM B-827 & B-845, Method H, with 3 years exposure.						
Operating Temp	-40°C to + 85°C						
Vibration 1	Per Mil-Std 202F, Method 204D Test Condition A 0.06 DA or 10G's 10-500 Hz. Tested with VCH connector. Test criteria - No loss of circuit during test and pre and post test contact resistance.						
Vibration 2	Resonance search 24-50 Hz 0.40 DA 50-2000 ±10 G's peak Results Horizontal Axis 3-5 G's max. Random 24 Hz 0.06 PSD-Gsq/Hz 60 Hz 0.50 100 Hz 0.50 200 Hz 0.025 2000 Hz 0.025 No loss of circuit during test; <10µ chatter.						
Shock	Per Mil-Std 202F, Method 213B, Test Condition K @ 30G's. Tested with VCH connector. Test criteria - No loss of circuit during test, pre, and post test contact resistance.						
Salt Spray	Per Mil-Std 202F, Method 101D, Test Condition A, 48 Hrs.						
Thermal Shock	Per Mil-Std 202F, Method 107F, Test Condition A, -55°C to 85°C. Test criteria - pre and post test contact resistance.						
Moisture Resistance	Per Mil-Std 202F, Method 106F, Test Criteria - pre and post test contact resistance.						

Mounting Specifications

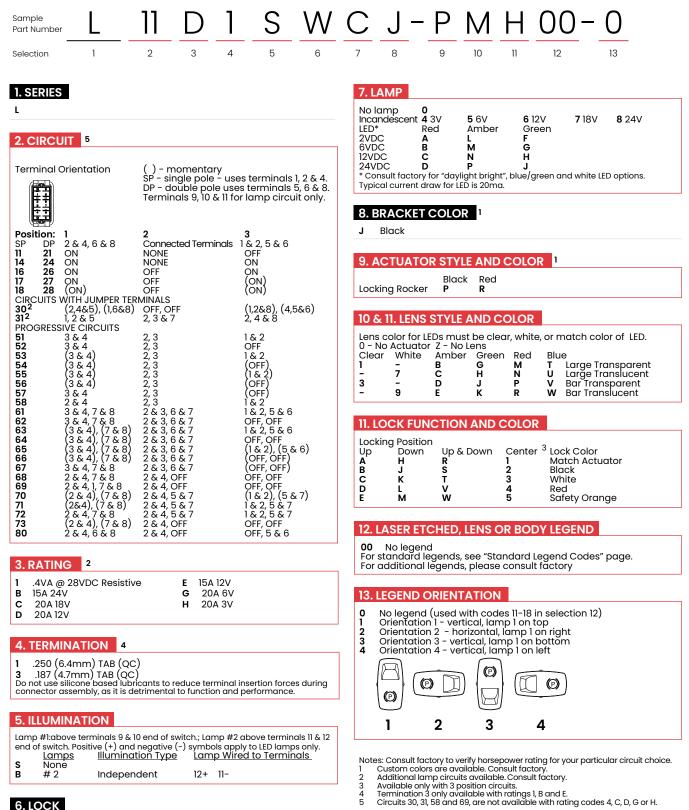


MOUNTING HOLE **Panel Thickness Range** Acceptable Panel Thickness .030 to .156 (.76mm to 3.96mm) Recommended: .030, .062, .093, .125 and .156

Ordering Scheme Rocker

Sample Part Number L 11 E 3 C H	N 1 - 3 A A 45 - 1 48
$\frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{1}{5} \frac{1}{6}$	$\frac{1}{7} - \frac{1}{8} - \frac{1}{9} - \frac{1}{10} - \frac{1}{11} - \frac{1}{12} - \frac{1}{13} - \frac{1}{14}$
1. SERIES	6,7. LAMP (SAME CODING FOR BOTH SELECTIONS)
L 2. CIRCUIT	Selection 6: above terminals 10 & 9; Selection 7: above terminals 12 & 11 No lamp 0
Terminal Orientation () - momentary SP - single pole - uses terminals 1, 2 i DP - double pole uses terminals 5, 6 i Terminals 9, 10 & 11 for lamp circuit or	
Position: 1 2 3 SP DP 2 & 4, 6 & 8 Connected Terminals 1 & 2, 5 & 6 I1 21 ON NONE OFF I2 22 (ON) NONE OFF I3 23 ON NONE (OFF) I4 24 ON NONE ON I5 25 ON NONE (ON) I6 26 ON OFF ON 17 27ON OFF (ON) OFF (ON) 18 28 (ON) OFF (ON)	8. BRACKET COLOR 1 Black White Gray Red Standard Bracket 1 2 3 4 Rockerguard at Lamp 1 A B C D Rockerguard at Lamp 2 E F G H
CIRCUITS WITH JUMPER TERMINALS (1,2&8) 30* (2,4&5) (1,6&8) OFF, OFF (1,2&8) (4,5& 31* 1,2 & 5 2,3 & 7 2,4 & 8 2,4 & 8 PROGRESSIVE CIRCUITS 51 3 & 4 2,3 1 & 2 51 3 & 4 2,3 0FF 0FF	6) 9. ACTUATOR STYLE AND COLOR 1 Black White Gray Red Laser Etched Rocker A B C D 3 Paddle J N K M 4
53 (3 & 4) 2, 3 1 & 2 54 (3 & 4) 2, 3 (OFF) 55 (3 & 4) 2, 3 (1 & 2)	10 & 11. LENS STYLE AND COLOR
56 $(3 \& 4)$ 2,3 (OFF) 57 $3 \& 4$ 2,3 (OFF) 58* $2 \& 4$ 2,3 (OFF) 58* $2 \& 4$ 2,3 (DFF) 58* $2 \& 4$ 2,3 (DFF) 58* $2 \& 4$ 2,3 $1 \& 2$ 61 $3 \& 4,7 \& 8$ $2 \& 3,6 \& 7$ DFF, OFF 62 $3 \& 4,7 \& 8$ $2 \& 3,6 \& 7$ OFF, OFF 63 $(3 \& 4), (7 \& 8)$ $2 \& 3,6 \& 7$ OFF, OFF 64 $(3 \& 4), (7 \& 8)$ $2 \& 3,6 \& 7$ OFF, OFF 65 $(3 \& 4), (7 \& 8)$ $2 \& 3,6 \& 7$ (OFF, OFF) 67 $3 \& 4, 7 \& 8$ $2 \& 3, 6 \& 7$ (OFF, OFF) 68 $2 \& 4, 7 \& 8$ $2 \& 4, 0FF$ OFF, OFF 69* $2 \& 4, 1, 7 \& 8$ $2 \& 4, 0FF$ OFF, OFF 70 $(2 \& 4), (7 \& 8)$ $2 \& 4, 5 \& 7$ $1 \& 2, 5 \& 7$ 71 $(2 \& 4), (7 \& 8)$ $2 \& 4, 5 \& 7$ $1 \& 2, 5 \& 7$ 72 $2 \& 4, 7 \& 8$ $2 \& 4, 0FF$ $OFF, 0FF$ 80 2	12. LASER ETCHED, LENS OR BODY LEGEND
* Available with ratings 1, B, & E only. 3. RATING 2	 0 No legend (used with codes 11-18 in selection 12) 1 Orientation 1 - vertical, lamp 1 on top 2 Orientation 2 - horizontal, lamp 1 on right
1 .4VA @ 28VDC Resistive E 15A 12V B 15A 24V G 20A 6V C 20A 18V H 20A 3V D 20A 12V E 15A 12V	3 Orientation 3 - vertical, lamp 1 on bottom 4 Orientation 4 - vertical, lamp 1 on left
4. TERMINATION 2.3 1 .250 (6.4mm) TAB (QC) 3 .187 (4.7mm) TAB (QC)	
Do not use silicone based lubricants to reduce terminal insertion forces duri connector assembly, as it is detrimental to function and performance.	14. ACTUATOR LENS LEGEND
5. ILLUMINATIONLamp #Labove terminals 9 & 10 end of switch.; Lamp #2 above terminals 11 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only Lamp Wired to Terminals S NoneA#1Independent10+9-B#2Independent10+9-C#1Independent10+9-C#1Independent10+9-C#1Independent10+9-C#1Independent10+9-C#1Independent10+9-C#1Independent10+9-G#1Dependent4+9-F4#1Independent10+9-& #2Dependent4+9-G#1DependentH#1Both IndependentH#1Both IndependentH#1Dependent4#1DependentH#1DependentH#1DependentH#1DependentH#1DependentH#1Dependent4+9-H#1Dependent4+9-	00 No legend For standard legends, see "Standard Legend Codes" page. For additional legends, please consult factory
& # 2 Dependent 1+ 9- 1 # 2 Hazard 6+ 10- 12- 2 # 1 Hazard 6+ 10- 12-	

Ordering Scheme Locking Rocker



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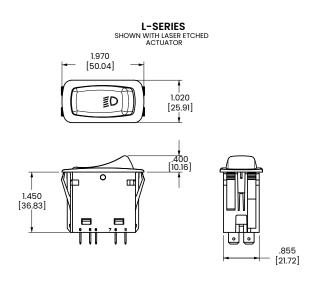
🐼 Configure Complete Part Number > 🛛 🕸 Browse Standard Parts >

6. LOCK w

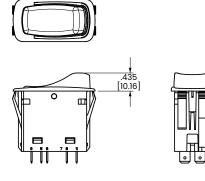
Lock above terminals 10 & 9.

Dimensional Specs

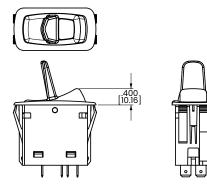
inches [millimeters]



L-SERIES SHOWN WITH ROCKER GUARD



L-SERIES SHOWN WITH LARGE LENS AND PADDLE ACTUATOR

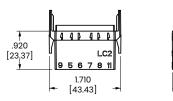


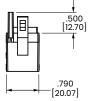
Connector

L-SERIES CONNECTOR

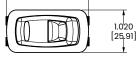
LC1-01 BLACK .250 TAB CONNECTOR (PACKARD 630 SERIES) LC2-01 BLACK .187 TAB CONNECTOR (PACKARD 480 SERIES) LC3-01 BLACK .250 TAB CONNECTOR (AMP ONLY)

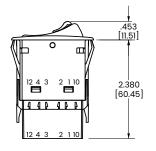


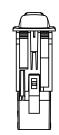




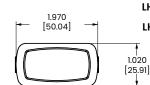
L-SERIES SHOWN WITH BAR LENS, LOCK AND CONNECTOR 1.970 [50.04]







Hole Plug L-SERIES HOLE PLUG



LH1 REMOVABLE HOLE PLUG WITH NON-SERRATED WINGS LH2 HOLE PLUG WITH SERRATED WINGS

1.020

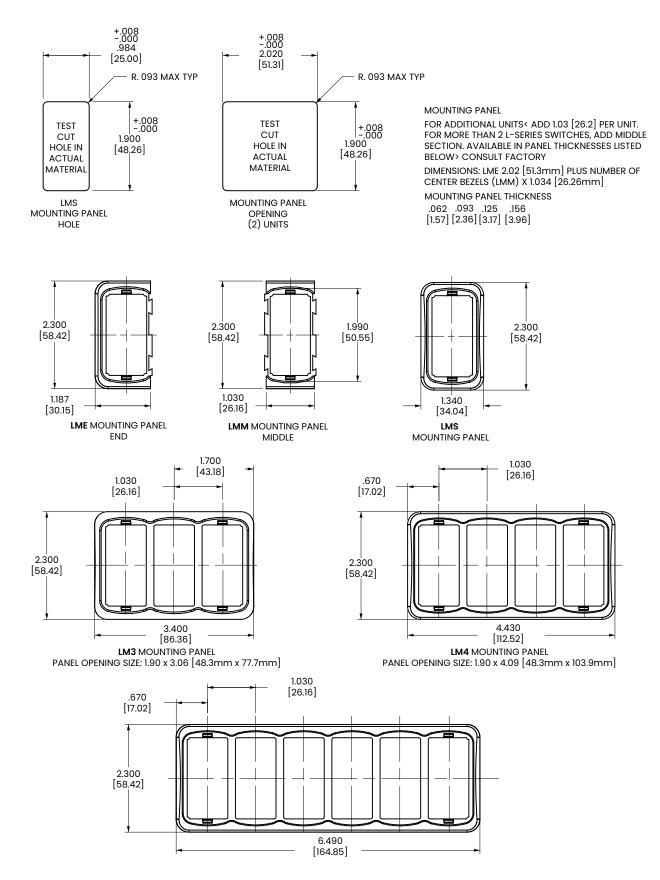
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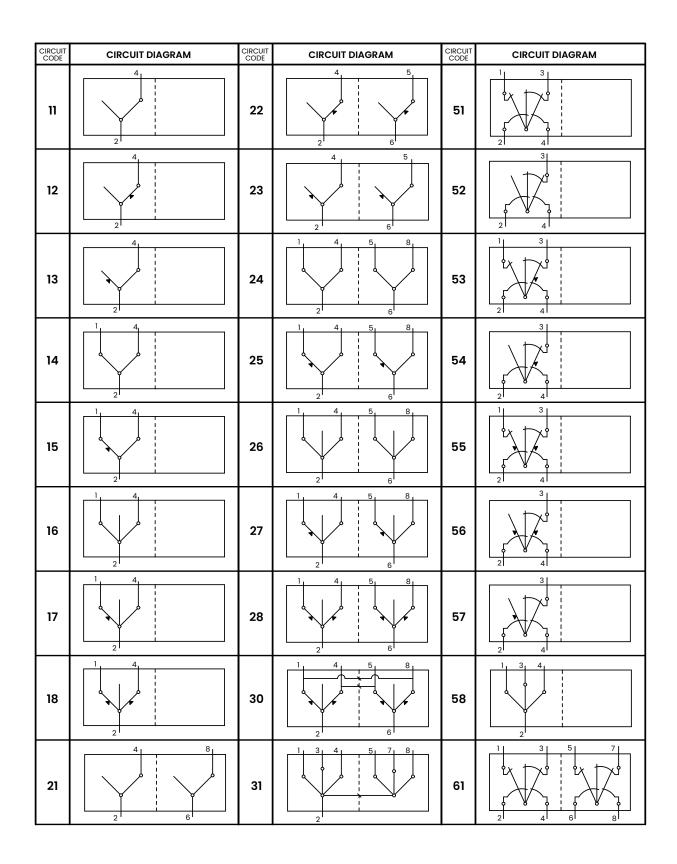


Dimensional Specs

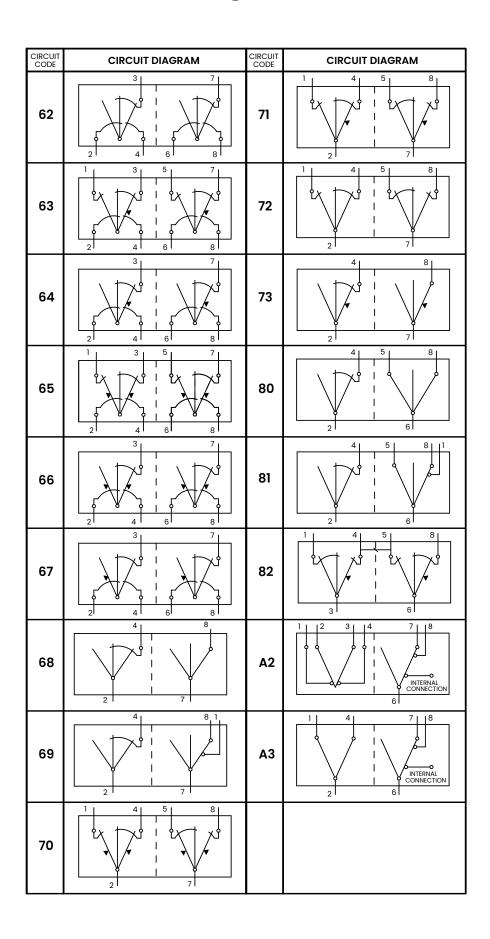
inches [millimeters]



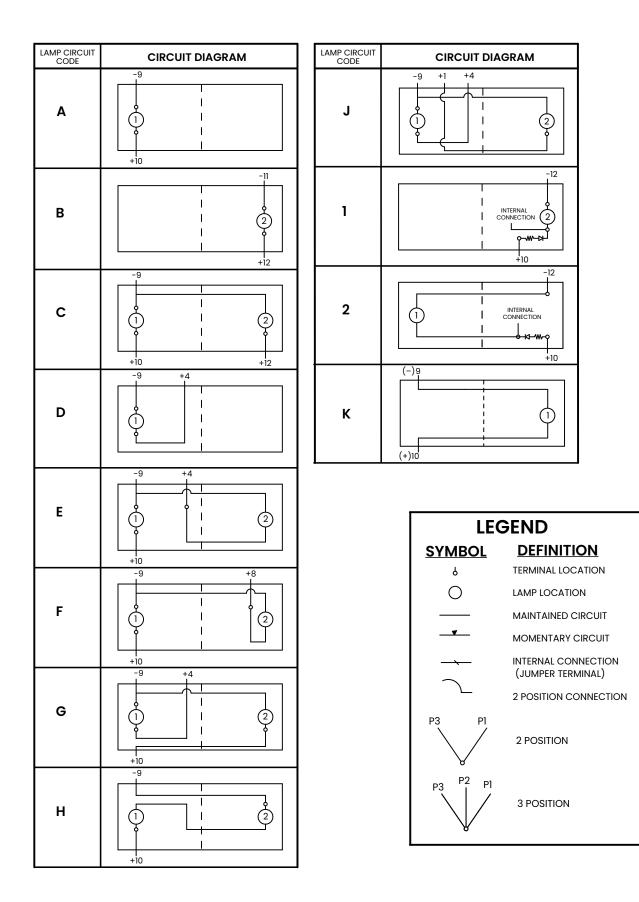
Circuit Diagrams



Circuit Diagrams



Lamp Circuit Diagrams



Standard Legend Codes

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 704.960.9
 704.965.6
 704.966.0
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 71M1048

 757200264
 764300000
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 84212M02CNNS
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