



Littelfuse®



Carling Technologies®

A Littelfuse® Brand

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

Poles

.4-20

Amps

125-250

VAC

12-24

VDC

Typical Applications

- Construction
- Agriculture
- On-Highway

Design Features

LED LIGHTING

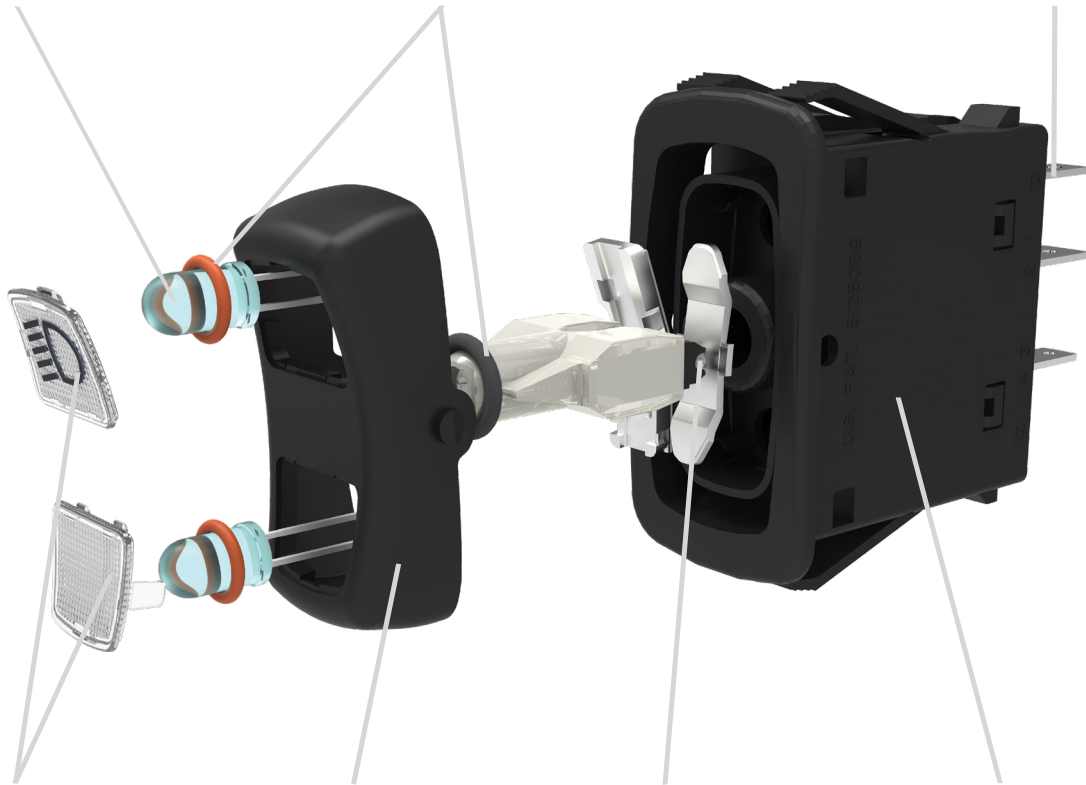
Utilize less current and are not affected by vibration, providing long lasting illumination. Available in 3 standard colors.

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, paddle, or window lift styles. Several standard color options also available.

ROLLER PIN

Eliminates need for lubricants, increasing the temperature range of the switch from -40°C to $+85^{\circ}\text{C}$ [-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

Contact Rating	4VA @ 24VDC (MAX) resistive 15 amps, 125VAC 10 amps, 250VAC 20 amps, 4-14VDC 15 amps, 15-28VDC
Dielectric Strength	1250 Volts RMS between pole to pole 3750 Volts RMS between live parts and accessible surfaces
Insulation Resistance	50 Megohms
Initial Contact Resistance	10 milliohms max. @ 4 VDC
Life	Up to 100,000 cycles maintained, 50,000 cycles momentary circuit and load dependent
Contacts	90/10 silver-nickel, silver tin-oxide, gold
Terminals	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.

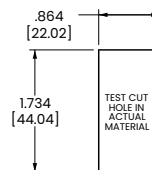
Actuator Travel (Angular Displacement)

2 Position	26°
3 Position	13° 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

For Window Lift variant only -
Recommended Panel Thickness
.118 (3.00mm)

Ordering Scheme Rocker

Sample
Part Number

L 11 E 3 C H N 1-3 A A 45-1 48

Selection

1 2 3 4 5 6 7 8 9 10 11 12 13 14

1. SERIES

L

2. CIRCUIT

Terminal Orientation



() - momentary
SP - single pole - uses terminals 1, 2 & 4.
DP - double pole uses terminals 5, 6 & 8.
Terminals 9, 10 & 11 for lamp circuit only.

Position:	1	2	3
SP	DP	2 & 4, 6 & 8	Connected Terminals
11	21	ON	NONE
12	22	(ON)	NONE
13	23	ON	NONE
14	24	ON	NONE
15	25	ON	NONE
16	26	ON	OFF
17	27	ON	OFF
18	28	(ON)	OFF
CIRCUITS WITH JUMPER TERMINALS			
30*	(2,4&5), (1,6&8)	OFF, OFF	(1,2&8), (4,5&6)
31*	1, 2 & 5	2, 3 & 7	2, 4 & 8
PROGRESSIVE CIRCUITS			
51	3 & 4	2, 3	1 & 2
52	3 & 4	2, 3	OFF
53	(3 & 4)	2, 3	1 & 2
54	(3 & 4)	2, 3	(OFF)
55	(3 & 4)	2, 3	(1 & 2)
56	(3 & 4)	2, 3	(OFF)
57	3 & 4	2, 3	(OFF)
58*	2 & 4	2, 3	1 & 2
61	3 & 4, 7 & 8	2 & 3, 6 & 7	1 & 2, 5 & 6
62	3 & 4, 7 & 8	2 & 3, 6 & 7	OFF, OFF
63	(3 & 4), (7 & 8)	2 & 3, 6 & 7	1 & 2, 5 & 6
64	(3 & 4), (7 & 8)	2 & 3, 6 & 7	OFF, OFF
65	(3 & 4), (7 & 8)	2 & 3, 6 & 7	(1 & 2), (5 & 6)
66	(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, OFF	OFF, OFF
69*	2 & 4, 1, 7 & 8	2 & 4, OFF	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, 5 & 7	1 & 2, 5 & 7
73	(2 & 4), (7 & 8)	2 & 4, OFF	OFF, OFF
80	2 & 4, 6 & 8	2 & 4, OFF	OFF, 5 & 6
HAZARD WARNING CIRCUITS			
A2	6, 7 & 8, 3 & 4	NONE	OFF, 1 & 2
A3	6, 7 & 8, 2 & 4	NONE	OFF, 1 & 2

* Available with ratings 1, B, & E only.

3. RATING

2

1	.4VA @ 28VDC Resistive	E	15A 12V
B	15A 24V	G	20A 6V
C	20A 18V	H	20A 3V
D	20A 12V		

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 during connector assembly, as it is detrimental to function and performance.

5. ILLUMINATION

Lamp #1: above terminals 9 & 10 end of switch.; Lamp #2 above terminals 11 & 12 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only.

Lamps	illumination Type	Lamp Wired to Terminals
S	None	
A	#1 Independent	10+ 9-
B	#2 Independent	12+ 11-
C	#1 Independent	10+ 9-
D	& #2 Independent	12+ 9-
E	#1 Dependent	4+ 9-
F	#1 Independent	10+ 9-
G	& #2 Dependent	8+ 9-
H	#1 Dependent	4+ 9-
I	& #2 Independent	10+ 9-
J	#1 Both Independent (in series)	10+ 9-
K	#1 Dependent	4+ 9-
L	& #2 Dependent	1+ 9-
M	#2 Hazard	6+ 10- 12-
N	#1 Hazard	6+ 10- 12-

6,7. LAMP (SAME CODING FOR BOTH SELECTIONS)

Selection 6: above terminals 10 & 9; Selection 7: above terminals 12 & 11

No lamp	0	5 6V	6 12V	7 18V	8 24V
Incandescent	4 3V				
LED*	Red	Amber	Green		
2VDC	A	L	F		
6VDC	B	M	G		
12VDC	C	N	H		
24VDC	D	P	J		

* Consult factory for "daylight bright", blue/green and white LED options.
Typical current draw for LED is 20ma.

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

9. ACTUATOR STYLE AND COLOR

1

	Black	White	Gray	Red	Laser Etched
Rocker	A	B	C	D	3
Paddle	J	N	K	M	4

10 & 11. LENS STYLE AND COLOR

Lens color for LEDs must be clear, white, or match color of LED.
0 - No Actuator Z - No Lens

Clear	White	Amber	Green	Red	Blue
1	-	B	G	M	T
-	7	C	H	N	U
3	-	D	J	P	V
-	9	E	K	R	W
5	A	-	-	-	-

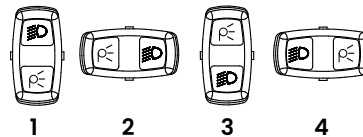
12. LASER ETCHED, LENS OR BODY LEGEND

00 No legend

For standard legends, see "Standard Legend Codes" page.
For additional legends, please consult factory

13. LEGEND ORIENTATION

- 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
3 Orientation 3 - vertical, lamp 1 on bottom
4 Orientation 4 - vertical, lamp 1 on left



14. ACTUATOR LENS LEGEND

00 No legend

For standard legends, see "Standard Legend Codes" page.
For additional legends, please consult factory

Notes: Consult factory to verify horsepower rating for your particular circuit choice.

- 1 Custom colors are available. Consult factory.
2 Circuits 30, 31, 58, 69 are not available with rating codes 4, C, D, G or H.
3 Termination 3 only available with rating codes 1, B, and E.
4 Not available with circuits 11-18, 51-57 and 69.

[Configure Complete Part Number >](#)

[Browse Standard Parts >](#)

Ordering Scheme

Locking Rocker

Sample
Part Number

L 11 D 1 S W C J - P M H 00 - 0

Selection

1

2

3

4

5

6

7

8

9

10

11

12

13

1. SERIES

L

2. CIRCUIT 5

Terminal Orientation



() - momentary

SP - single pole - uses terminals 1, 2 & 4.

DP - double pole uses terminals 5, 6 & 8.

Terminals 9, 10 & 11 for lamp circuit only.

Position:	1	2	3
SP	DP	2 & 4, 6 & 8	Connected Terminals
11	21	ON	NONE
14	24	ON	NONE
16	26	ON	OFF
17	27	ON	OFF
18	28	(ON)	OFF
CIRCUITS WITH JUMPER TERMINALS			
30 ²	(2,4&5), (1,6&8)	OFF, OFF	(1,2&8), (4,5&6)
31 ²	1, 2 & 5	2, 3 & 7	2, 4 & 8
PROGRESSIVE CIRCUITS			
51	3 & 4	2, 3	1 & 2
52	3 & 4	2, 3	OFF
53	(3 & 4)	2, 3	1 & 2
54	(3 & 4)	2, 3	(OFF)
55	(3 & 4)	2, 3	(1 & 2)
56	(3 & 4)	2, 3	(OFF)
57	3 & 4	2, 3	(OFF)
58	2 & 4	2, 3	1 & 2
61	3 & 4, 7 & 8	2 & 3, 6 & 7	1 & 2, 5 & 6
62	3 & 4, 7 & 8	2 & 3, 6 & 7	OFF, OFF
63	(3 & 4), (7 & 8)	2 & 3, 6 & 7	1 & 2, 5 & 6
64	(3 & 4), (7 & 8)	2 & 3, 6 & 7	OFF, OFF
65	(3 & 4), (7 & 8)	2 & 3, 6 & 7	(1 & 2), (5 & 6)
66	(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, OFF	OFF, OFF
69	2 & 4, 1, 7 & 8	2 & 4, OFF	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, 5 & 7	1 & 2, 5 & 7
73	(2 & 4), (7 & 8)	2 & 4, OFF	OFF, OFF
80	2 & 4, 6 & 8	2 & 4, OFF	OFF, 5 & 6

3. RATING 2

1	.4VA @ 28VDC Resistive	E	15A 12V
B	15A 24V	G	20A 6V
C	20A 18V	H	20A 3V
D	20A 12V		

4. TERMINATION 4

1 .250 (6.4mm) TAB (QC)

3 .187 (4.7mm) TAB (QC)

Do not use silicone based lubricants to reduce terminal insertion forces during connector assembly, as it is detrimental to function and performance.

5. ILLUMINATION

Lamp #1: above terminals 9 & 10 end of switch; Lamp #2 above terminals 11 & 12 end of switch. Positive (+) and negative (-) symbols apply to LED lamps only.

Lamps	Illumination Type	Lamp Wired to Terminals
S	None	
B	# 2	Independent 12+ 11-

6. LOCK

W Lock above terminals 10 & 9.

7. LAMP

No lamp	0				
Incandescent	4 3V	5 6V	6 12V	7 18V	8 24V
LED*	Red	Amber	Green		
2VDC	A	L	F		
6VDC	B	M	G		
12VDC	C	N	H		
24VDC	D	P	J		

* Consult factory for "daylight bright", blue/green and white LED options. Typical current draw for LED is 20ma.

8. BRACKET COLOR 1

J Black

9. ACTUATOR STYLE AND COLOR 1

	Black	Red
Locking Rocker	P	R

10 & 11. LENS STYLE AND COLOR

Lens color for LEDs must be clear, white, or match color of LED.

0 - No Actuator Z - No Lens

Clear	White	Amber	Green	Red	Blue
1	-	B	G	M	T
-	7	C	H	N	U
3	-	D	J	P	V
-	9	E	K	R	W

Large Transparent
Large Translucent
Bar Transparent
Bar Translucent

11. LOCK FUNCTION AND COLOR

Locking Position	Up	Down	Up & Down	Center ³	Lock Color
A	H	R	1		Match Actuator
B	J	S	2		Black
C	K	T	3		White
D	L	V	4		Red
E	M	W	5		Safety Orange

12. LASER ETCHED, LENS OR BODY LEGEND

00 No legend

For standard legends, see "Standard Legend Codes" page.

For additional legends, please consult factory

13. LEGEND ORIENTATION

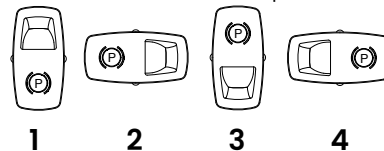
0 No legend (used with codes 11-18 in selection 12)

1 Orientation 1 - vertical, lamp 1 on top

2 Orientation 2 - horizontal, lamp 1 on right

3 Orientation 3 - vertical, lamp 1 on bottom

4 Orientation 4 - vertical, lamp 1 on left



Notes: Consult factory to verify horsepower rating for your particular circuit choice.

1 Custom colors are available. Consult factory.

2 Additional lamp circuits available. Consult factory.

3 Available only with 3 position circuits.

4 Termination 3 only available with ratings 1, B and E.

5 Circuits 30, 31, 58 and 69, are not available with rating codes 4, C, D, G or H.

[Configure Complete Part Number >](#)

[Browse Standard Parts >](#)

Ordering Scheme Window Lift

Sample
Part Number

L 70 D 1 K 0 C W - W Z A RY - 3 00

Selection

1

2

3

4

5

6

7

8

9

10

11

12

13

14

1. SERIES

L

2. CIRCUIT ³

() - momentary

Position:

SP	DP	2 & 4, 6 & 8	Connected Terminals	1 & 2, 5 & 6
18	28	(ON)	OFF	(ON)
	30*	(2,4&5), (1,6&8)	OFF, OFF	(1,2&8), (4,5&6)
	70*	(2 & 4), (7 & 8)	2 & 4, 5 & 7	(1 & 2), (5 & 7)

* Available with ratings 1, B, & E only.

3. RATING ³

1 0.4VA 28V DC Resistive
B 15A 24V
D 20A 12V
E 15A 12V

4. TERMINATION ³

1 .250 (6.4mm) TAB (QC)
3 .187 (4.7mm) TAB (QC)

5. ILLUMINATION

Positive (+) and negative (-) symbols apply to LED lamps only.

Lamps	Illumination Type	Lamp Wired to Terminals
S None		
B # 2	Independent	12+ 11-
K # 2	Independent	10+ 9-

Notes:

- Custom colors are available. Consult factory.
- Legend 1 over lamp 2 location.
- Circuit 30 & any combination of terminations code 1 or 3 can not be used with rating code D. Termination code 3 can only be used with rating codes 1, B & E.
- Legend 2 over lamp 1 location.

[Configure Complete Part Number >](#)

[Browse Standard Parts >](#)

6 & 7. LAMP #2

Lamp #1: Not available on window lift switch, Use Code "0" for Selection 6
 Selection 7: Above Terminals 11 & 12

No lamp **0**
 LED*

White	Amber	Green	Blue	Volts
6	N	H	E	12VDC
8	P	J	K	24VDC

8. BRACKET COLOR / STYLE ¹

W Black Window Lift

9. ACTUATOR COLOR / STYLE ¹

W Black Window Lift

10 & 11. LASER ETCHED BACKGROUND COLOR

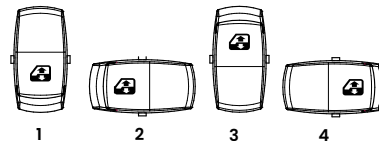
Z Blank
5 Clear
A White

12. LEGEND #1 ²

00 No legend
 For standard legends, see "Standard Legend Codes" page.
 For additional legends, please consult factory

13. LEGEND ORIENTATION

0 No legend
1 Orientation 1
2 Orientation 2
3 Orientation 3
4 Orientation 4



14. LEGEND #2 ⁴

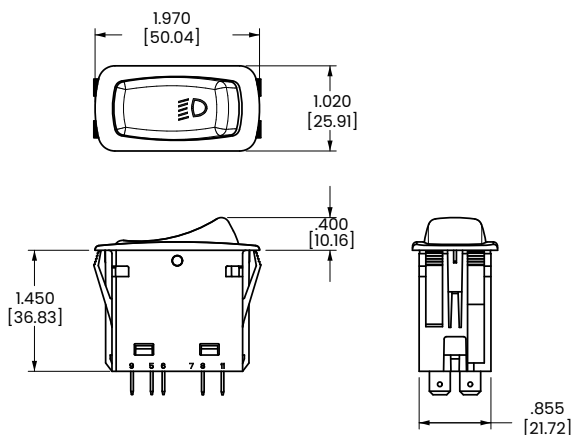
00 No legend
 For standard legends, see "Standard Legend Codes" page.
 For additional legends, please consult factory

Dimensional Specs

inches [millimeters]

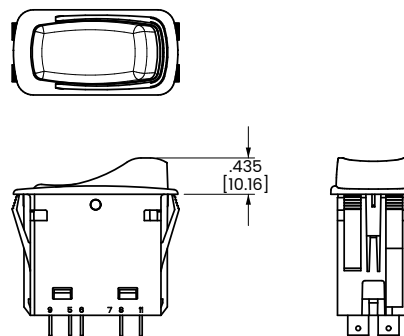
L-SERIES

SHOWN WITH LASER ETCHED ACTUATOR



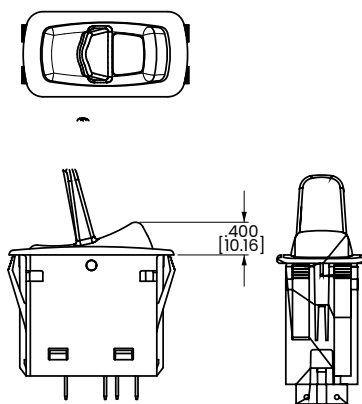
L-SERIES

SHOWN WITH ROCKER GUARD



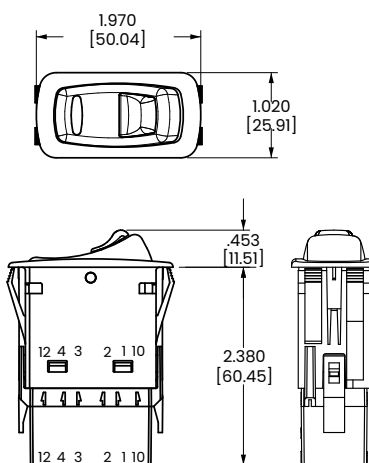
L-SERIES

SHOWN WITH LARGE LENS AND PADDLE ACTUATOR



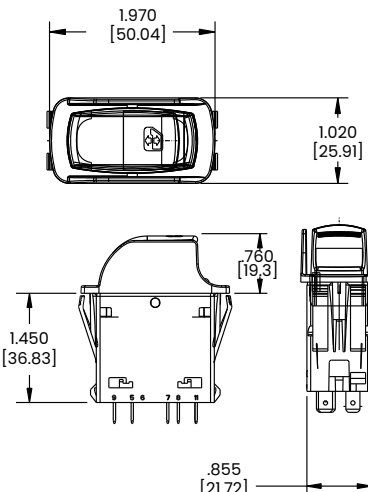
L-SERIES

SHOWN WITH BAR LENS, LOCK AND CONNECTOR



L-SERIES

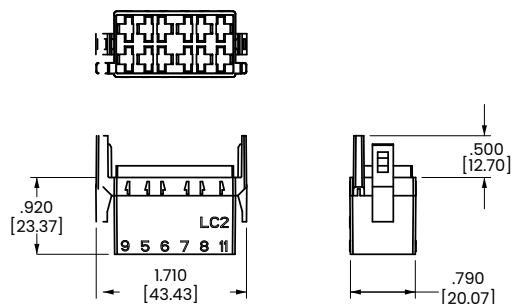
SHOWN WITH LASER ETCHED WINDOW LIFT ACTUATOR



Connector

L-SERIES CONNECTOR

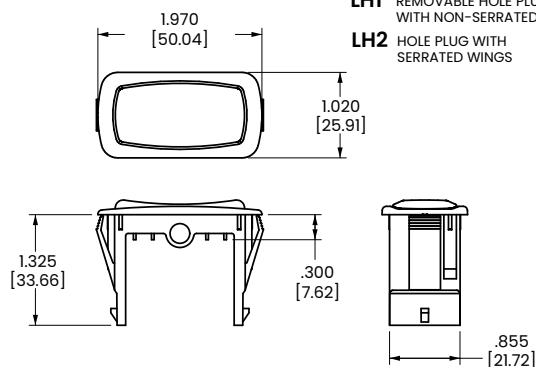
- LC1-01 BLACK .250 TAB CONNECTOR (PACKARD 630 SERIES)
- LC2-01 BLACK .187 TAB CONNECTOR (PACKARD 480 SERIES)
- LC3-01 BLACK .250 TAB CONNECTOR (AMP ONLY)



Hole Plug

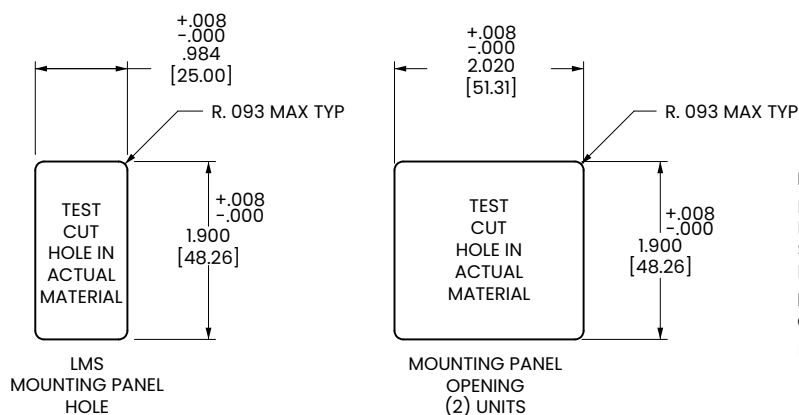
L-SERIES HOLE PLUG

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



Dimensional Specs

inches [millimeters]



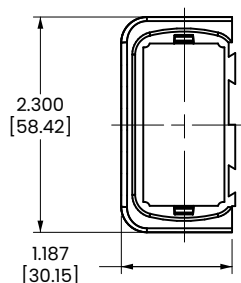
MOUNTING PANEL

FOR ADDITIONAL UNITS< ADD 1.03 [26.2] PER UNIT.
FOR MORE THAN 2 L-SERIES SWITCHES, ADD MIDDLE
SECTION. AVAILABLE IN PANEL THICKNESSES LISTED
BELOW> CONSULT FACTORY

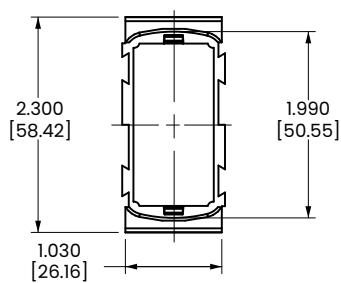
DIMENSIONS: **LME** 2.02 [51.3mm] PLUS NUMBER OF
CENTER BEZELS (**LMM**) X 1.034 [26.26mm]

MOUNTING PANEL THICKNESS

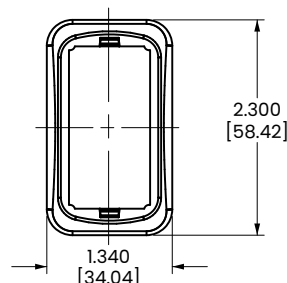
.062 .093 .125 .156
[1.57] [2.36] [3.17] [3.96]



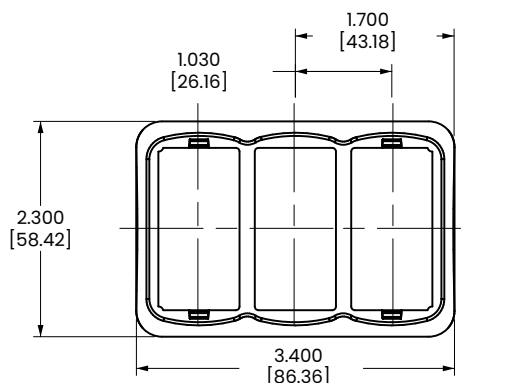
LME MOUNTING PANEL
END



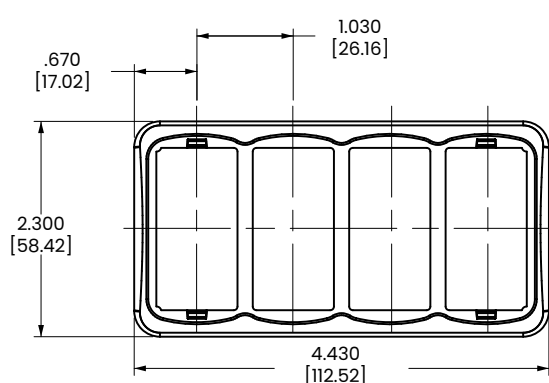
LMM MOUNTING PANEL
MIDDLE



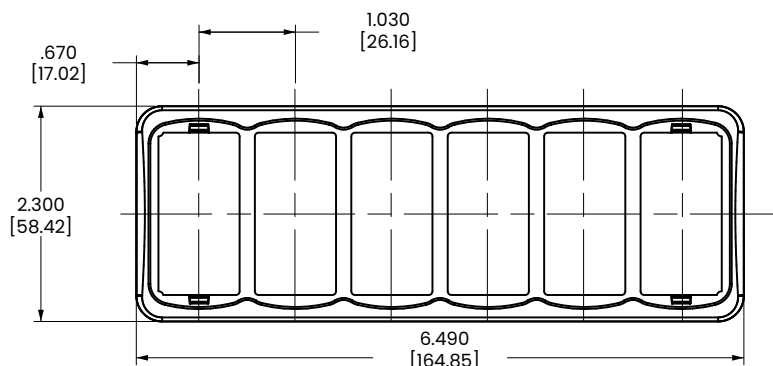
LMS MOUNTING PANEL



LM3 MOUNTING PANEL
PANEL OPENING SIZE: 1.90 x 3.06 [48.3mm x 77.7mm]

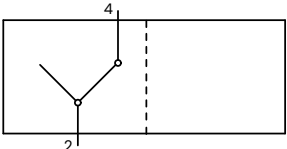
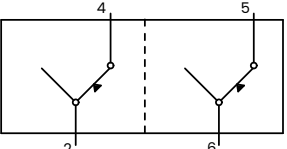
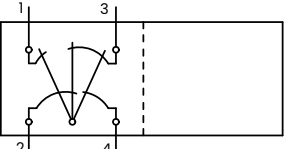
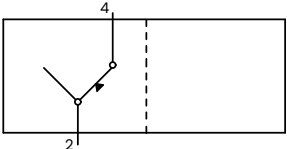
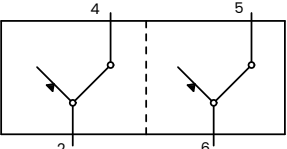
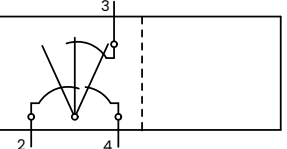
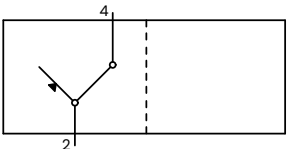
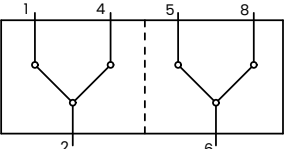
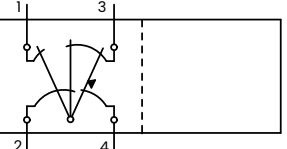
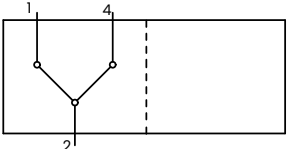
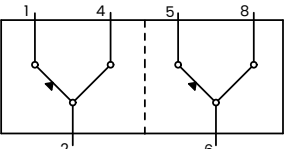
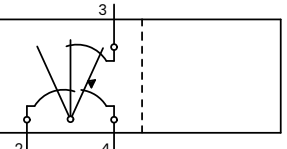
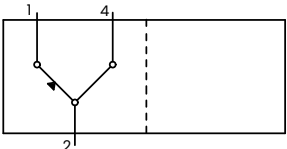
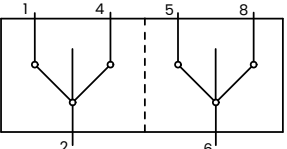
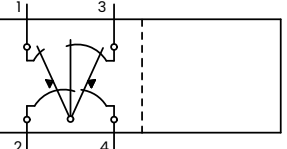
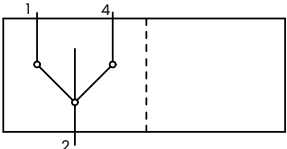
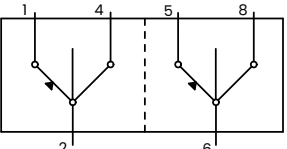
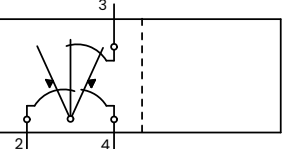
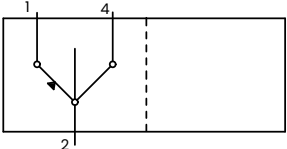
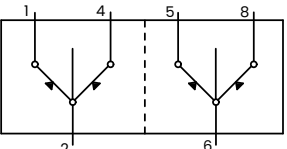
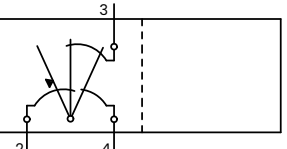
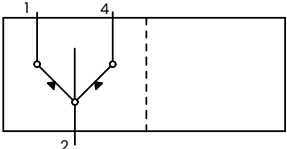
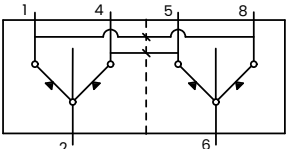
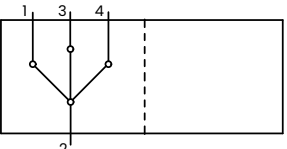
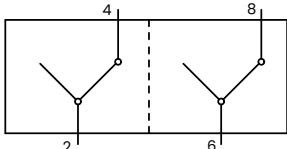
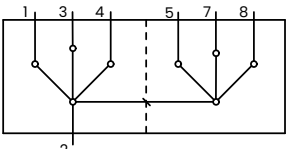
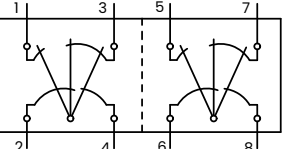


LM4 MOUNTING PANEL
PANEL OPENING SIZE: 1.90 x 4.09 [48.3mm x 103.9mm]



LM6 MOUNTING PANEL
PANEL OPENING SIZE: 1.90 x 6.15 [48.3mm x 156.2mm]

Circuit Diagrams

CIRCUIT CODE	CIRCUIT DIAGRAM	CIRCUIT CODE	CIRCUIT DIAGRAM	CIRCUIT CODE	CIRCUIT DIAGRAM
11		22		51	
12		23		52	
13		24		53	
14		25		54	
15		26		55	
16		27		56	
17		28		57	
18		30		58	
21		31		61	

Circuit Diagrams continued on next page

Circuit Diagrams

CIRCUIT CODE	CIRCUIT DIAGRAM	CIRCUIT CODE	CIRCUIT DIAGRAM
62		71	
63		72	
64		73	
65		80	
66		81	
67		82	
68		A2	
69		A3	
70			

Lamp Circuit Diagrams

LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
A	
B	
C	
D	
E	
F	
G	
H	

LAMP CIRCUIT CODE	CIRCUIT DIAGRAM
J	
I	
2	
K	

LEGEND	
SYMBOL	DEFINITION
	TERMINAL LOCATION
	LAMP LOCATION
	MAINTAINED CIRCUIT
	MOMENTARY CIRCUIT
	INTERNAL CONNECTION (JUMPER TERMINAL)
	2 POSITION CONNECTION
	2 POSITION
	3 POSITION

Standard Legend Codes

YK	UA	UB	US	UV	UW	UX	UY	MP	MR	PX	MS	MT
VU	MW	NZ	NX	NY	YM	VW	PS	PW	PZ	WG	WM	RN
RP	YG	TX	VD	VE	VF	VG	SH	SM	SN	SP	SR	SY
DIM	BRIGHT	UH	UJ	PD	PE	PF	VC	VJ	UF	UG	MU	TN
NS	PB	SE	VZ	YE	NN	RW	PU	WA	YN	UE	NM	RJ
NR	YD	TL	VR	SL	VA	UC	VN	PK	VY	UZ	RH	NU
NV	RB	RC	RK	RL	MZ	RG	UP	DOWN	UD	UR	WD	TY
PA	UK	WR	UU	UT	YR	PM	VV	WB	TB	TC	TD	TE
MY	PV	TA	TZ	WC	PT	PN	PH	RA	TU	TT	YL	SK
VS	UL	UM	WK	TS	VT	WL	VP	YJ	PJ	RY	UP	NW
NP	RE	RF	PP	PR	TV	PC	YT	YU	PL	WJ	MV	RR
TK	RT	SZ	VX	WF	WH	PG	SJ	YA	YB	RM	TM	RD
RS	UN	TP	TR	NT	MX	YC	TW	TJ	YF	TH	TF	TG
YS	YH	SX	RZ	YP	WN	WP	WW	WX	SA	SB	SC	SD
RAISE	LOWER	HIGH	LOW	FWD	REV	DEPTH	TRIM TAB	ACC	NAV ANCH	WIND LASS UP/DN	LIVE WELL	REAR
ST	SU	WU	WV	SV	SW	VB	VH	VK	VL	VM	WE	SF
PARK	AUTO	RU	RV	RX								
SG	SS											

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