



Product Catalog



**QUALITY****LAMB IS A STATEMENT OF QUALITY**

Since incorporating in 1979, Lamb Industries has sought specialized manufacturing partners from around the world. Only the highest quality manufacturing processes with ISO 9000:2000 standing and the most innovative switch designs are branded by Lamb. Utilizing our partners' facilities, Lamb engineers bring innovative solutions to market. Lamb's tight family of multi-lingual staff fluent in Spanish, Italian, Croatian, Tagalog, and Mandarin, bring our valued customers expertise in international commerce and communication, custom switch design, and efficient, modern sales practices.

SERVICE**LAMB IS A COMMITMENT TO SERVICE**

Service is the cornerstone upon which a successful business is founded. Lamb embodies this statement with commitment to our customers. With a wide and ever expanding range of high end and value-based products, timely shipping, and customization services, Lamb is the sole choice of many large and small businesses. Lamb also offers "perfect fit" solutions engineered for specific applications, saving some customers thousands and millions in labor and reliability.

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**Lamb Industries is Now
a Part of E-Switch!**



E-SWITCH®

**ACKNOWLEDGMENTS**

Catalog Design: Carl Buchheit

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

[illegible]

Name: The designated name of the switch. Typically printed on the side of the switch and used in the approval files if applicable.

Category: The type of switch.

Diagram: A schematic of major dimensions and options. Additional options may be available.

Part Numbering Scheme: The method used to assign switches their part number. A part number is assembled by filling in the boxes with an option listed below. Not all combinations are valid part numbers. Part numbers should be approved by a sales associate.

Quick Reference Icons: Icons used to quickly identify the features, mounting, and packaging styles the series offers. This information is cross referenced in the Index, on page 1. A description of the icons and their meanings follow.

Features



Bi-Color Actuator: The actuators in this series have a two color option.



High Amperage: This series has been approved by UL at 15A or higher at 125VAC.



Illuminated: The series has illumination options including full, shaped lens, and/or signal light.



Water Protection: The series is protected from liquids and dust with a minimum IP54 rating option.



High Temperature: The series is approved for a minimum 100°C in the US.



Heavy Duty: The series is of heavier construction and is suitable for use in industrial applications.



Tiny Switch: The series or members of the series are smaller than similar switches in their category.

Mounting and Packaging



Front Panel Mount: The series can be mounted from the front side of a panel or sub-panel.



Rear Panel Mount: The series can be mounted from the rear side of a panel or sub-panel.



Standard PCB Mount: The series mounts to a PC board using through-hole technology with the actuator in a vertical position.



Right Angle PCB Mount: The series mounts to a PC board using through-hole technology with the actuator in a horizontal position.



Surface Mount: The series mounts to a PC board using surface mount technology. This includes J-bend styles.



Tape and Reel: This series can be packaged in tape and reel for automated assembly. This also includes radial tape packaging.

Approvals and Marks: The agencies with which the series has been approved and other marks (i.e. CE mark) the series has received. Some series do not require approval for their typical application. A description of the different approvals and marks follow.

North American Approvals



UL: Approved for use in the United States by Underwriters Laboratories. For more information see www.ul.com. UL File Number E194579, E195908, and E301643.



cUL: Approved for use in Canada by Underwriters Laboratories. This mark is equivalent to CSA.



CSA: Approved for use in Canada by the Canadian Standards Association. For more information see www.csa.ca.



NOM: Approved for use in Mexico by the Secretaría de Economía. For more information see www.economia-noms.gob.mx.

Combined North American Approvals



cULus: Combined approval for use in Canada and the United States by Underwriters Laboratories.

Other Marks



CE: This is a mark used in Europe to signify safety conformity to the CE directives. The mark is allowed based solely on the manufacturer's Declaration of Conformity (DoC), not on approval by a third party. Therefore there is no "file number" for this mark. For more information see www.newapproach.org



RoHS: This symbol is used to mark compliance with European Union Directive 2002/95/EC known as Restriction of Hazardous Substances at the time of print. For more information see europa.eu.int.



Lead-Free: Although there is no current legislation in the US regarding lead-free electronics, Lamb understands our customers' environmental concerns and desire to move toward lead-free products and processes. This symbol is used in this catalog to mark a product manufactured without lead and is compatible with lead-free processing at the time of print.



New: This symbol is used to show a product added since the 2007 Catalog.

European Approvals



VDE: Approved for use in Germany by VDE. For more information see www.vde.de.



SEMKO: Approved for use in Sweden by ETL SEMKO. For more information see www.semko.com.



NEMKO: Approved for use in Norway by the Norges Elektriske Materielkontroll. For more information see www.nemko.com.



DEMKO: Approved for use in Denmark by the Danmarks Elektriske Materielkontroll. For more information see www.demko.de



FIMKO: Approved for use in Finland by SGS Fimko Ltd. For more information see www.sgsfimko.fi.



SEV: Approved for use in Switzerland by the Swiss Electrotechnical Association. For more information see www.sev.ch.



IMQ: Approved for use in Italy by the Istituto Italiano del Marchio di Qualita. For more information see www.imq.it.



TUV: Approved to the IEC 60158-1 standard by TUV Rheinland Berlin Brandenburg. For more information see www.tuv.com.

Combined European Approvals



ENEC: Combined approval for European Union. For more information see www.enec.com.

Features: A short, bulleted description of the features and capabilities of the series.

Specifications: A list of mechanical and electrical specifics. Details of the most common specifications are listed below.

Rating: The approved rating(s) or suggested rating if no approvals.

For North American agencies resistive load and inductive load approvals are separate. Resistive load approval format is amperage followed by the voltage and inductive load format is horsepower followed by voltage. Approved switches are rated for 65°C and 6,000 cycles minimum, but many switches are approved for higher ratings.

For European agencies, the resistive and inductive load approvals are combined with electrical life and maximum temperature. The format is the resistive load, followed by the inductive load inside parentheses, followed by the voltage, electrical life (1E4 = 10,000 cycles), and temperature (T125 = 125°C).

Temperature: The suggested ambient operating temperature. This is usually the approved rating.

Electrical Life: The minimum number of Off > On > Off cycles one can expect from this switch under full rated load.

Mechanical Life: The minimum number of Off > On > Off cycles one can expect from this switch under no load.

Dielectric Strength: The minimum voltage applied between open terminals for one minute that results in no dielectric breakdown.

Insulation Resistance: The minimum resistance measured between open terminals at the specified voltage.

Contact Resistance: The maximum resistance measured between closed terminals at the specified voltage.

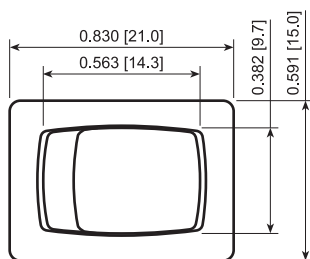
Ingress Protection: A number describing the quality of the sealing of the switch. The first number rates the protection from dust on a scale of 0 to 6. The second number rates the protection from water on a scale of 0 to 8. An average unsealed rocker switch would likely receive an IP40 rating. Average water sealing is about IP54. Immersible is IP67. For more information see www.ul.com/controlsequipment/ipcode.html.

Materials: A list of components and materials used to construct the series. Some components have material options.

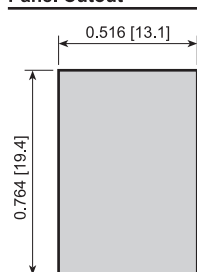
Photographs: To convey the full aesthetics of a switch when a line drawing is insufficient.

Example Part Numbers: An example list of part numbers and descriptions.

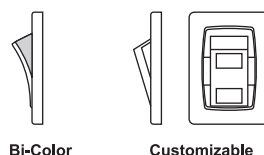




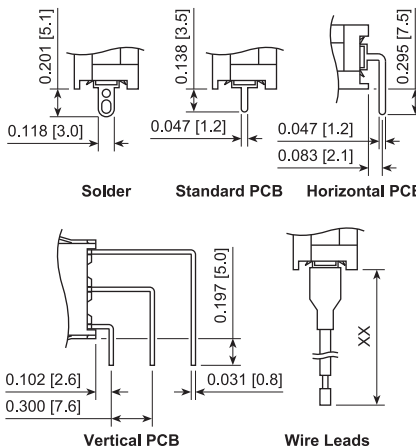
Panel Cutout



Actuator Options



Terminal Options



FEATURES:

- High Rating
- Snap in with Multiple terminal options
- Many Functions Available
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125VAC [cULus]
10(6)A 250V~ 1E4 T85 [ENEC]
6(4)A 250V~ 5E4 T85 [ENEC]

Rating Option 3:

11A 125VAC [cULus]
5.5A 250VAC [cULus]
4A 250V~ 1E4 T55 [ENEC]

Ratings of Illuminated Switches May Vary

TEMPERATURE: -20°C to 55°C Min.

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 30mΩ Max.

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,000VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

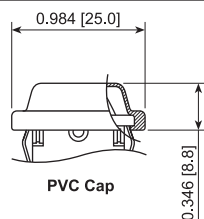
ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

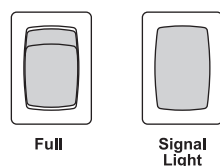
CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper

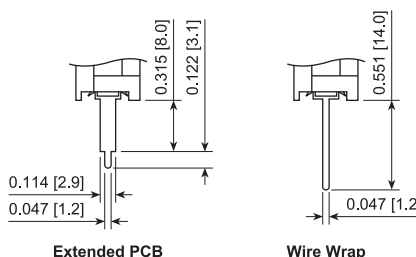
Water Protection Option



Illumination Options



Dimensions of Illuminated Switches May Vary From Above



RA111C1A00



RA111C1021-116



RA111C1213

RA113C1100
ACC-P01

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RA1 - Curved Actuator	0 - Blank	0 - Signal / Blank	0 - Signal / Blank	1 - Black	0 - Illuminated	0 - None	0 - None	1 - Full / Signal	0 - Clear	3 - 6V
RA1C - Customizable Actuator	1 - 4.8mm Tab (*)	1 - Off-On (*)	3 - 11A 125V	2 - White	1 - Black	1 - Black	1 - I/O Vert.	0 - Clear	1 - Red	4 - 12V
	2 - Solder (*)	3 - On-On	C - 16A 125V	3 - Almond	2 - White	2 - White	2 - ON/OFF/ON Vert.	3 - Amber	3 - Green	6 - 125V
	3 - PCB Pin	4 - Off-(On)		4 - Grey	3 - Almond	8 - Red	3 - ON/OFF Vert.	4 - ON/OFF Horiz.	4 - Blue	7 - 250V
	H - Horiz. PCB	5 - On-Off-On		9 - Red	4 - Grey		4 - ON/OFF Horiz.	9 - I/O/II Vert.	5 - Yellow	
	V - Vert. PCB	A - On-(Off)			5 - Orange		9 - I/O/II Vert.	S - I/O/II Vert.		
	A14 - Wire Wrap	C - On-Off-(On)			7 - Blue		R - I/O Horiz.			
	E08 - Ext. PCB	D - (On)-(Off)-(On)			8 - Green					
	Wxx - Wire Leads (xx in Inches)				9 - Red					

Notes:
Not All Combinations are Available, Please Check with Sales.
* = Options Available with Illuminated Switches

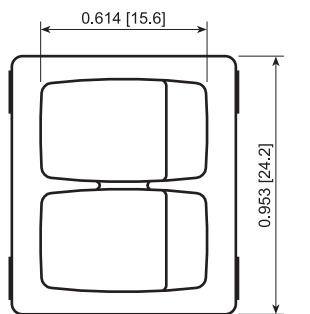
Bi-Color:
A - Black / Red
B - Black / White
C - White / Red

Custom Colors and Markings Available Upon Request

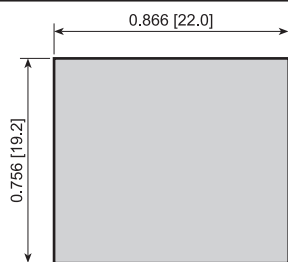
For Illuminated Switches Only

EXAMPLE PART NUMBERS:

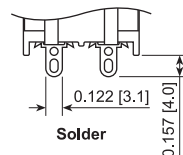
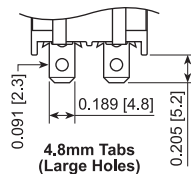
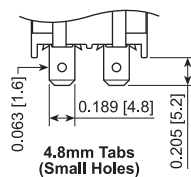
RA11131100	1P Off-On Black Body/Actuator, No Marking
RA11131121	1P Off-On Black Body/Actuator, I/O Vert.
RA111C1100	1P Off-On Black Body/Actuator, No Marking
RA111C1121	1P Off-On Black Body/Actuator, I/O Vert.
RA111C1021-116	1P Off-On Red Illum. Actuator, Black Body, I/O Vert.
RA11331100	1P On-On Black Body/Actuator, No Marking
RA11531100	1P On-Off-On Black Body/Actuator, No Marking
RA11531122	1P On-Off-On Black Body/Actuator, ON/OFF/ON Vert.
RA13131100	1P Off-On Black Body/Actuator, PCB Pins, No Marking
RA1H331100	1P On-On Black Body/Actuator, Right Angle PCB Pins



Panel Cutout



Terminal Options



FEATURES:

- High Rating with UL and VDE Approvals
- Different Function Combinations Possible
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125VAC, 10A 250VAC [UL, cUL]
1/3HP 125/250VAC 105°C [UL, cUL]
10(4)A 250V~ T125 1E4 [VDE]
10(2)A 250V~ T85 5E4 [VDE]

RATING OPTION 3:

10A 125VAC [cULus]
6(2)A 250V~ T125 1E4 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]
-20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

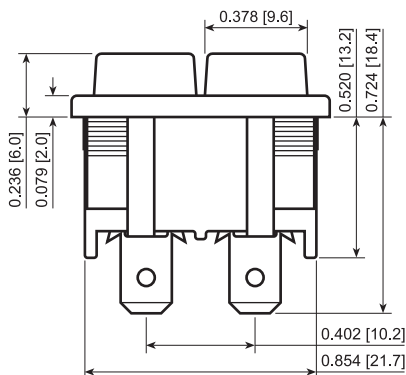
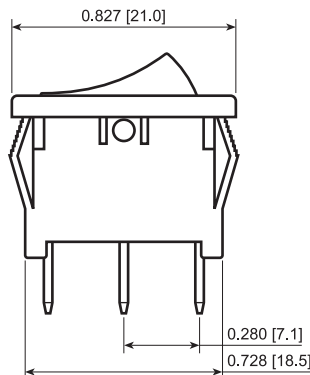
MATERIALS:

Body: Polyamide 6/6, UL94 V-2

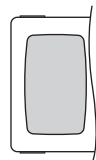
ACTUATOR: Polyamide 6/6, UL94 V-2
Polycarbonate, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper

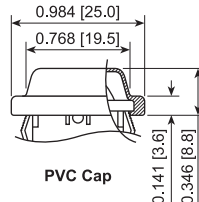


Illumination Options



Signal Light

Water Protection Options



PVC Cap



RA21(002000-108)+(5C221V)



RA21131121



RA21(131921)+(331100)



RA21131100

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RA2	1 - 4.8mm Tab (Small Hole) 2 - Solder 8 - 4.8mm Tab (Large Hole)	0 - Signal 1 - Off-On 3 - On-On 4 - Off-(On) 5 - On-Off-On A - On-(Off)	0 - Signal 3 - 10A 125V C - 16A 250V	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Signal 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/I Horiz. S - I/O/I Vert. R - I/O Horiz.	1 - Signal	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue 5 - Yellow	3 - 6V 4 - 12V 6 - 125V 7 - 250V

Custom Colors and Markings Available Upon Request

For Signal Lights Only

Note:

The second set of parentheses have the same format as the first set. They only need to be included if the two actuators differ. See the part number examples for details.

EXAMPLE PART NUMBERS:

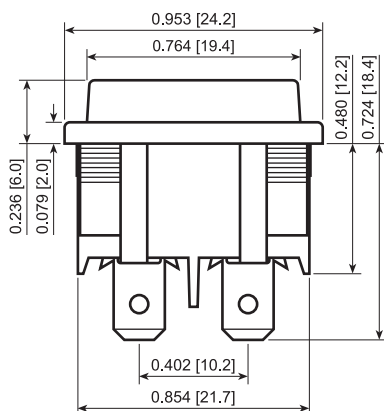
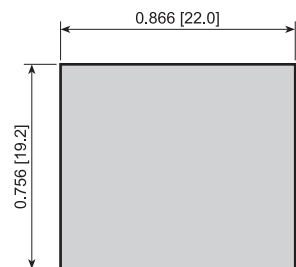
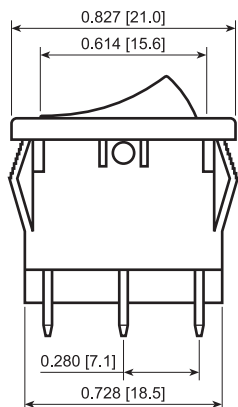
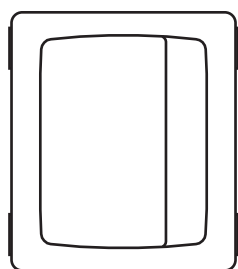
RA21131100 2x1P Off-On
Black Body/Actuator, 4.8mm Tab, No Marking

RA21131121 2x1P Off-On
Black Body/Actuator, 4.8mm Tab, I/O Vert.

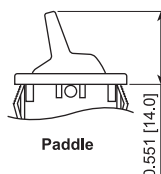
RA22131121 2x1P Off-On
Black Body/Actuator, Solder, I/O Vert.



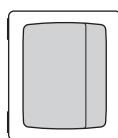
Panel Cutout



Actuator Options

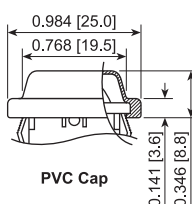


Illumination Options



Full

Water Protection Options



PVC Cap

FEATURES:

- High Rating with UL and VDE Approvals
- Curved and Paddle Actuator Options
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

- 16A 125VAC [UL, cUL]
- 10A 250VAC [UL, cUL]
- 1/3HP 125/250VAC 105°C [UL, cUL]
- 10(4)A 250V~ T125 1E4 [VDE]
- 10(2)A 250V~ T85 5E4 [VDE]

RATING OPTION 3:

- 10A 125VAC [UL, cUL]
- 6(2)A 250V~ T125 1E4 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]
-20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

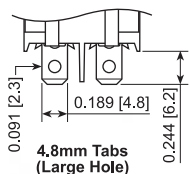
DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

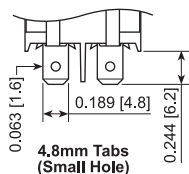
MATERIALS:

Body: Polyamide 6/6, UL94 V-2
Actuator: Polyamide 6/6, UL94 V-2
Contacts: Silver Alloy
Terminals: Silver Plated Copper

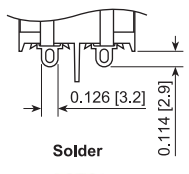
Terminal Options



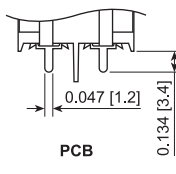
4.8mm Tabs (Large Hole)



4.8mm Tabs (Small Hole)



Solder



PCB



RA41231121



RAP41232200



RA42631100



RA41231188

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RA4 - Curved Actuator RA4P - Paddle Actuator	1 - 4.8mm Tab (Small Hole) 3 - PCB 5 - Solder 8 - 4.8mm Tab (Large Hole)	1 Pole: 1 - Off-On 3 - On-On 4 - Off-(On) 5 - On-Off-On A - On-(Off) B - On-(On) 2 Pole: 2 - Off-On (*) G - On-On E - Off-(On) 6 - On-Off-On F - On-(Off) H - On-(On)	3 - 10A 125VAC C - 16A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey	1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.	1 - Full	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 6 - 125V 7 - 250V

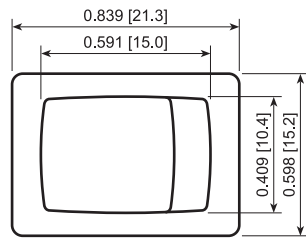
Note:
* = Option Available with Illumination

Custom Colors and Markings Available Upon Request For Illuminated Switches Only

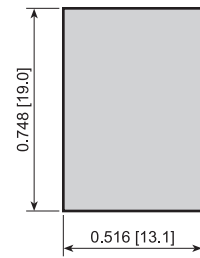
EXAMPLE PART NUMBERS:

RA412C1100 2P Off-On
Black Body/Actuator, 4.8mm Tab, No Marking

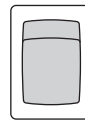
RA412C1121 2P Off-On
Black Body/Actuator, 4.8mm Tab, I/O Vert.



Panel Cutout

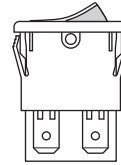


Illumination Options



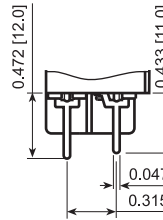
Full

Actuator Options

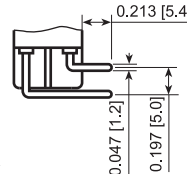


Bi-Color

Terminal Options

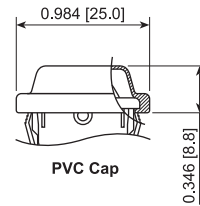


PCB Pins

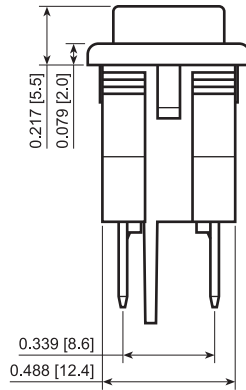
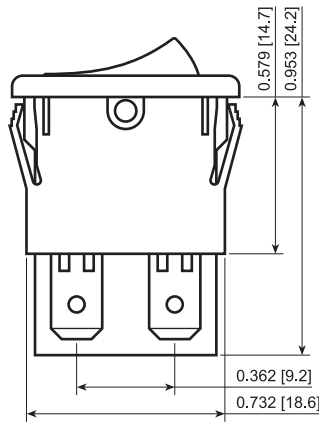


Horizontal Bent PCB Pins

Water Protection Options



PVC Cap



FEATURES:

- High Rating with UL and VDE Approvals
- Illuminated and Bi-Color Actuator Options
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: *RATING OPTION 3:*

10A 125VAC [cULus]

6(2)A 250V~ 1E4 T125 [ENEC]

RATING OPTION C:

16A 125VAC [cULus]

10(6)A 250V~ 1E4 T85 [ENEC]

6(4)A 250V~ 5E4 T85 [ENEC]

Ratings of Illuminated Switches May Vary

TEMPERATURE: -20°C to 85°C Min.

ELECTRICAL LIFE: 10,000 Cycles

MECHANICAL LIFE: 100,000 Cycles

CONTACT RESISTANCE: 30mΩ Max. at 50VDC

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,000VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper



RA812C4411



RA85231000-116



RA811C1200

RA812C1B21

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RA8	1 - 4.8mm Tab 3 - PCB Pins 5 - Solder H - Horizontal PCB	1 Pole: 1 - Off-On 2 Pole: 2 - Off-On	3 - 10A 125VAC C - 16A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Illuminated 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. R - I/O Horiz.	1 - Full	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 6 - 125V 7 - 250V

Notes:
Not All Combinations are Available, Please Check with Sales.

Bi-Color:
A - Black / Red
B - Black / White
C - White / Red

Custom Colors and Markings Available Upon Request For Illuminated Switches Only

EXAMPLE PART NUMBERS:

RA811C1021-118 1P Off-On
Black Body, Red Illum. Actuator, I/O Vert.

RA811C1100 1P Off-On
Black Body/Actuator, No Marking

RA811C1121 1P Off-On
Black Body/Actuator, I/O Vert.

RA812C1100 2P Off-On
Black Body/Actuator, No Marking

RA812C1121 2P Off-On
Black Body/Actuator I/O Vert.

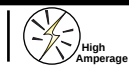
RA851C1100 1P Off-On
Black Body/Actuator, No Marking

RA852C1000-128 2P Off-On
Black Body, Amber Illum. Actuator, No Mark

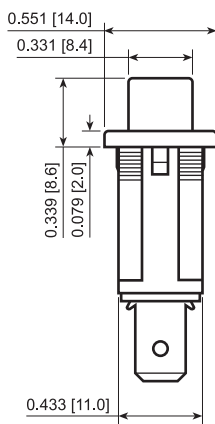
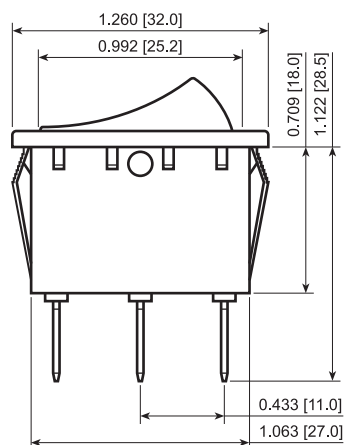
RA852C1100 2P Off-On
Black Body/Actuator, No Marking

RA852C1121 2P Off-On
Black Body/Actuator, I/O Vert.

RB1 Series

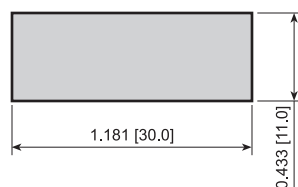


RoHS

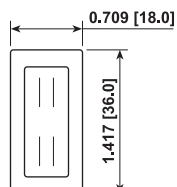


Dimensions of Some Versions
May Vary From Above

Panel Cutout

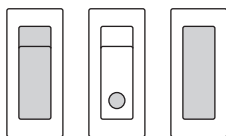


Water Protection Option



PVC Cap

Illumination Options



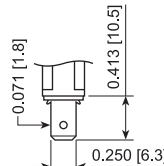
Full Round Lens Signal Light

Actuator Options

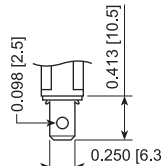


Flat

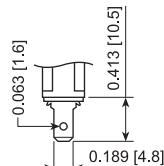
Terminal Options



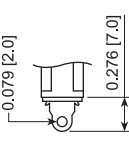
6.3mm Tab
(Small Hole)



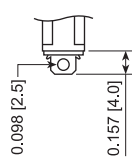
6.3mm Tab
(Large Hole)



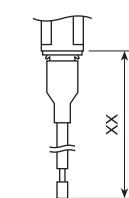
4.8mm Tab



Solder



Low Clearance Solder



Wire Leads
(xx in Inches)

FEATURES:

- High Quality and Reliable Switch
- Industry Standard 11mm x 30mm Cutout
- Illuminated and Signal Light Versions
- Multiple Terminal and Actuator Options
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

15A 125VAC T55 [cULus]
7.5A 250VAC T55 [cULus]
16(4)A 250V~ 1E4 T125/55 [ENEC]

RATING OPTION D (2 Pos. FUNCTIONS):

20A 125VAC T65 [cULus]
1/4HP 125VAC T65 [cULus]
3/4HP 250VAC T65 [cULus]
20(8)A 250V~ 1E4 T125 [ENEC]
10(2)A 250V~ 5E4 T85/55 [ENEC]
16(4)A 250V~ 1E4 T85/55 [ENEC]

RATING OPTION E (3 Pos. FUNCTIONS):

16A 125VAC T65 [cULus]
16A 250VAC T65 [cULus]
European Rating Pending

TEMPERATURE: -20°C to 65°C Min.

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max. at 50VAC

INSULATION RESISTANCE: 100MΩ Min. at 500VAC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver Plated Copper



RB141D1021-116

RB141D1123

RB141D1000-136 / ACC-F01-1

RB141D1100-216

RB1C5E1100

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RB1 - Curved or Signal Light RB1F - Flat	1 - 4.8mm Tab 4 - 6.3mm Tab (Small Hole) 5 - Solder 9 - 6.3mm Tab (Large Hole) A - On-(Off) C - Low Clear. Solder Wxx - Wire Leads	0 - Signal 1 - Off-On 3 - On-On 4 - Off-(On) 5 - On-Off-On A - On-(Off) B - On-(On) C - On-Off-(On) D - (On)-Off-(On)	0 - Signal C - 15A 125V D - 20A 125V E - 16A 125V	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full / Signal 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.	1 - Full 2 - Round	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue 5 - Yellow	3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V

Notes:

* = LED Illumination Available with Round Lens Only

Custom Colors and Markings Available Upon Request For Illuminated Switches Only



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EXAMPLE PART NUMBERS:

RB141D1100 1P Off-On
Black Body, Red Illum. Actuator, I/O Vert.

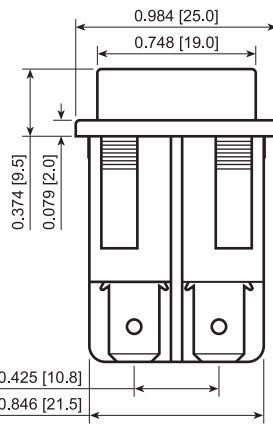
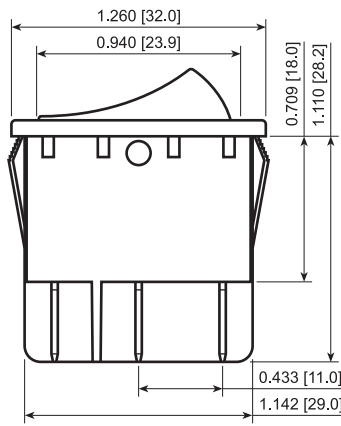
RB141D1000-116 1P Off-On
Black Body/Actuator, No Marking

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

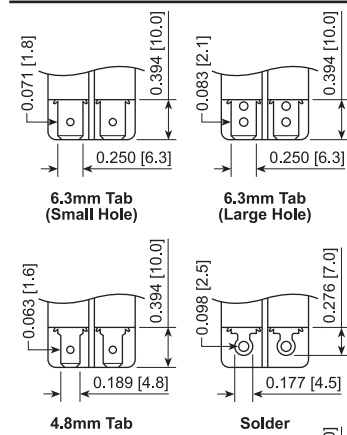
RB2 Series



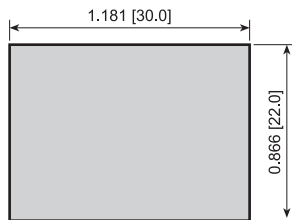
RoHS



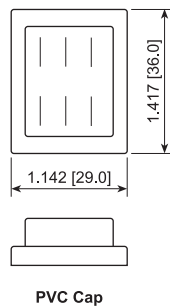
Terminal Options



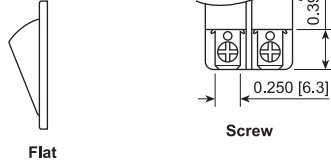
Panel Cutout



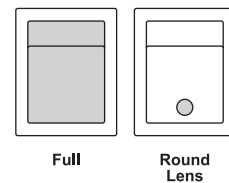
Water Protection Options



Actuator Options



Illumination Options



FEATURES:

- High Quality and Reliable Switch
- Industry Standard 22mm x 30mm Cutout
- Illuminated and Signal Light Versions
- Multiple Terminal and Actuator Options
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125VAC T85 [cULus]
8A 250VAC T85 [cULus]
16(4)A 250V~ 1E4 T125/55 [ENEC]

RATING OPTION D (2 Pos. FUNCTIONS):

20A 125VAC T65 [cULus]
1/4HP 125VAC T65 [cULus]
3/4HP 250VAC T65 [cULus]
16(8)A 250V~ 1E4 T125 [ENEC]
10(2)A 250V~ 5E4 [ENEC]
16(4)A 250V~ 1E4 T85/55 [ENEC]

RATING OPTION E (3 Pos. FUNCTIONS):

16A 125VAC T65 [cULus]
16A 250VAC T65 [cULus]
European Rating Pending

TEMPERATURE: -20°C to 65°C Min.

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max. at 50VAC

INSULATION RESISTANCE: 100MΩ Min. at 500VAC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

MATERIALS:

Body: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver Plated Copper



RB242D1000-136 / ACC-F02-1



RB246E1100 / ACC-F04-1

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

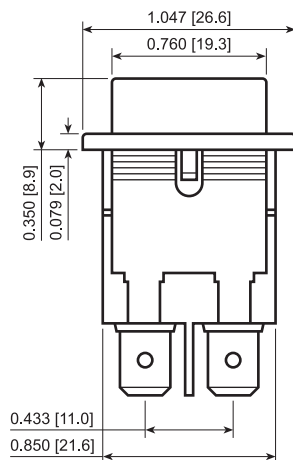
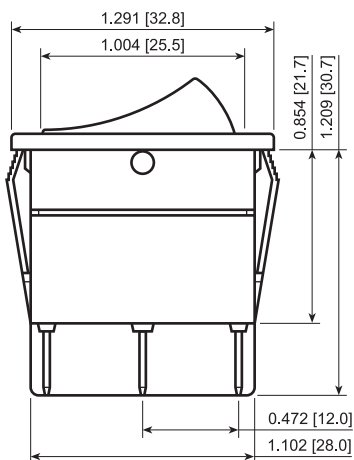
Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RB2 - Curved RB2F - Flat	1 - 4.8mm Tab 4 - 6.3mm Tab (Small Hole) 5 - Solder 6 - Screw B - 6.3mm Tab (Large Hole)	1 Pole: 1 - Off-On 3 - On-On 5 - On-Off-On C - On-Off-(On) D - (On)-Off-(On)	C - 16A 125V D - 20A 125V E - 16A 125V	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full Illum. 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.	1 - Full 2 - Round (*)	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V
		2 Pole: 2 - Off-On G - On-On E - Off-(On) H - On-(On) 6 - On-Off-On J - On-Off-(On) K - (On)-Off-(On)								

Note:
* = Option Available with "C" Rating Only

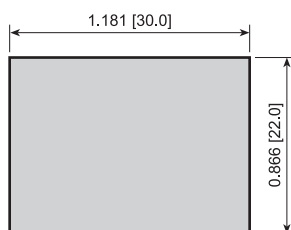
Custom Colors and Markings Available Upon Request For Illuminated Switches Only



WB2 Series



Panel Cutout



FEATURES:

- High Ratings with UL and TUV Approvals
- Industry Standard 22mm x 30mm Cutout
- Internal Dust and Water Protection to IP55

SPECIFICATIONS:

RATING: MAINTAINED SWITCHES:

- 20A 125VAC [cULus]
- 20A 250VAC [cULus]
- 2HP 125/250VAC [cULus]
- 22(14)A 250V~ 5E4 T85 [European]

MOMENTARY SWITCHES:

- 20A 125VAC T85 [cULus]
- 20A 250VAC T85 [cULus]
- 1.5HP 125/250VAC [cULus]
- 18(10)A 250V~ 5E4 T85 [European]

TEMPERATURE: -20°C to 65°C Min.

CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP55 Standard

MATERIALS:

Body: Polyamide 6/6

ACTUATOR: Polyamide 6/6

MOUNTING EARS: Polyamide 6/6

RUBBER SEAL: Ethylene Propylene

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Brass



WB242D1121



WB246D1100

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type
WB2	4 - 6.3mm Tabs	1 Pole: D - (On)-Off-(On)	D - 20A 125VAC	1 - Black 2 - White	1 - Black 2 - White 9 - Red	0 - None 1 - Black 2 - White	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.
Custom Colors and Markings Available Upon Request							

EXAMPLE PART NUMBERS:

WB242D1100	2P Off-On Black Body/Actuator, No Marking
WB242D1121	2P Off-On Black Body/Actuator, I/O Vert.
WB246D1100	2P On-Off-On Black Body/Actuator, No Marking
WB246D112S	2P On-Off-On Black Body/Actuator, I/O/II Vert.
WB24ED1121	2P Off-(On) Black Body/Actuator, No Marking
WB24GD1100	2P On-On Black Body/Actuator, No Marking
WB24KD1100	2P (On)-Off-(On) Black Body/Actuator, No Marking



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ROCKER

RB4 Series



High Amperage



Illuminated



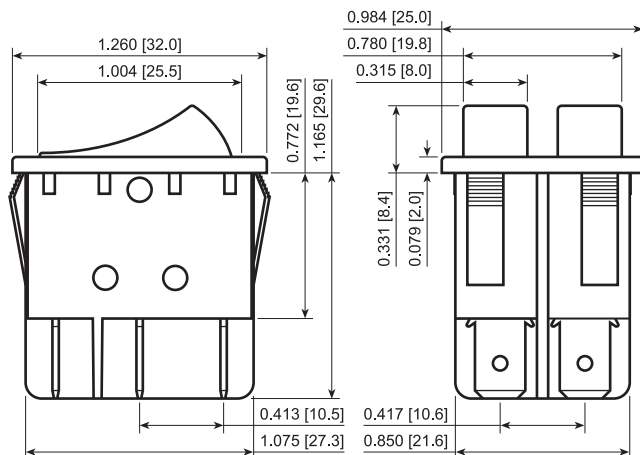
Water Protection



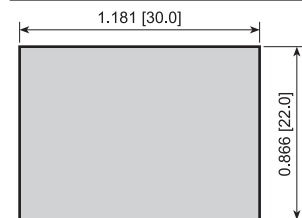
High Temperature



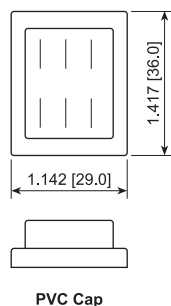
Front Panel Mount



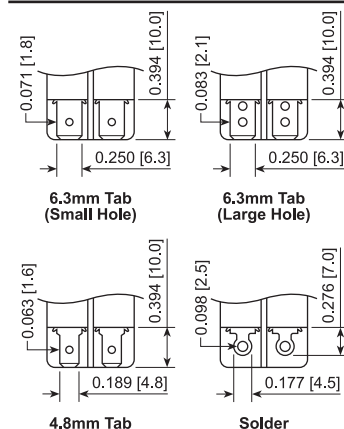
Panel Cutout



Water Protection Options



Terminal Options



FEATURES:

- High Quality and Reliable Switch
- High Ratings
- Industry Standard 22mm x 30mm Cutout
- Illuminated Versions
- Multiple Terminal and Actuator Options
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125VAC T85 [UL, cUL]

8A 250VAC T85 [UL, cUL]

16(4)A 250V~ 1E4 T125 [VDE]

TEMPERATURE: -20°C to 85°C Min.

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

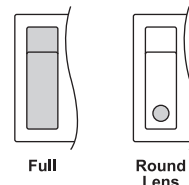
CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper

Actuator Options



Illumination Options



RB441C1100



RB4B(1C1211)+(3C1200)



RB4B1C1021-116



RB4B1C1(021-116)+(121)

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage	
RB4 - Curved RB4F - Flat	1 - 4.8mm Tab 4 - 6.3mm Tab 5 - Solder B - 6.3mm Tab (Large Hole)	1 - Off-On 3 - On-On (Small Hole) 4 - Off-(On) B - On-(On)	C - 16A 125V	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full Illum. 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. R - I/O Horiz.	1 - Full 2 - Round	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V	() + ()

Custom Colors and Markings Available Upon Request For Illuminated Switches Only

Note: The second set of parentheses have the same format as the first set. They only need to be included if the two actuators differ. See the part number examples for details.



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EXAMPLE PART NUMBERS:

RB441C1212

2x1P Off-On

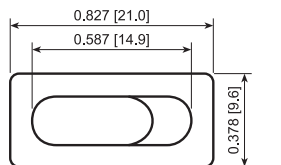
Black Body/Actuator, 6.3mm Tab, No Marking

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

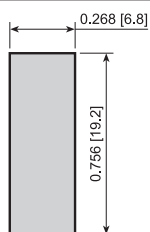
RD1 Series



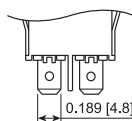
ROCKER



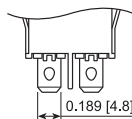
Panel Cutout



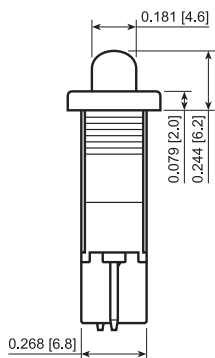
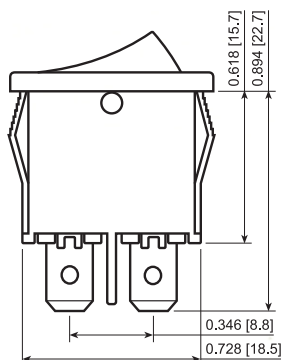
Terminal Options



4.8mm Tab



Solder



FEATURES:

- Compact Size With High Ratings
- Ideal for Applications With Limited Space

SPECIFICATIONS:

RATING: RATING OPTION C:

- 16A 125VAC [UL, cUL]
- 10A 250VAC [UL, cUL]
- 1/3HP 125/250VAC [UL, cUL]
- 10(4)A 250V~ 1E4 T125 [VDE]
- 10(2)A 250V~ 5E4 T85 [VDE]

RATING OPTION 3:

- 10A 125VAC [UL, cUL]
- 6(2)A 250V~ 1E4 T125 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]

-20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

Body: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper



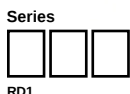
RD11131121



RD11131200



RD111C1900



RD1



1 - 4.8mm Tab
5 - Solder



1 - Off-On
4 - Off-(On)



3 - 10A 125VAC
C - 16A 125VAC



1 - Black
2 - White
3 - Almond
4 - Grey
9 - Red



1 - Black
2 - White
3 - Almond
4 - Grey
5 - Orange
7 - Blue
8 - Green
9 - Red



0 - None
1 - Black
2 - White
8 - Red



0 - None
1 - I/O Vert.
3 - ON/OFF Vert.
4 - ON/OFF Horiz.

Custom Colors and Markings Available Upon Request

EXAMPLE PART NUMBERS:

RD11131100 1P Off-On
Black Body/Actuator, No Marking

RD11131121 1P Off-On
Black Body/Actuator, I/O Vert.

RD111C1100 1P Off-On
Black Body/Actuator, No Marking

RD111C1121 1P Off-On
Black Body/Actuator, I/O Vert.



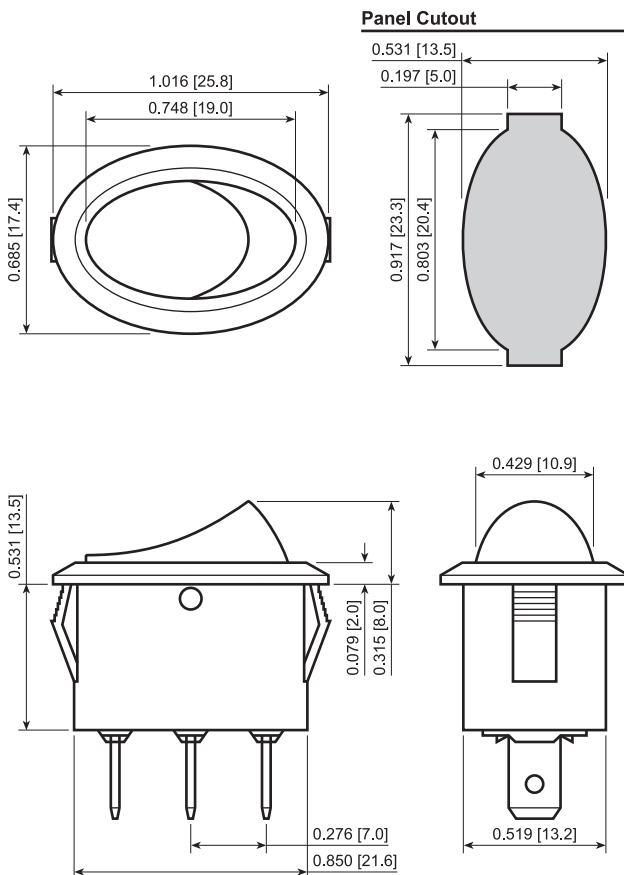
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

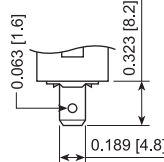
RE1 Series



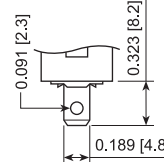
Illumination Options



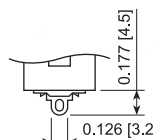
Terminal Options



4.8mm Tab
(Small Hole)



4.8mm Tab
(Large Hole)



Solder

FEATURES:

- Unique Oval Shape
- High Ratings with UL and VDE Approvals

SPECIFICATIONS:

RATING: RATING OPTION C:

- 16A 125VAC [UL, cUL]
- 10A 250VAC [UL, cUL]
- 1/3HP 125/250VAC [UL, cUL]
- 10(4)A 250V~ 1E4 T125 [VDE]
- 10(2)A 250V~ 5E4 T85 [VDE]

RATING OPTION 3:

- 10A 125VAC [UL, cUL]
- 6(2)A 250V~ 1E4 T125 [VDE]

- TEMPERATURE: -20°C to 105°C [UL, cUL]
- 20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

- BODY: Polyamide 6/6, UL94 V-2
- ACTUATOR: Polyamide 6/6, UL94 V-2
- Polycarbonate, UL94 V-2
- CONTACTS: Silver Alloy
- TERMINALS: Silver Plated Copper



RE111C1121



RE11131021-134



RE1153112S

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RE1 - Curved Actuator	1 - 4.8mm Tab (Small Hole) 5 - Solder 8 - 4.8mm Tab (Large Hole)	1 - Off-On (*) 3 - On-On 5 - On-Off-On	3 - 10A 125VAC C - 16A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full Illum. 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.	1 - Full	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue 5 - Yellow	3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V

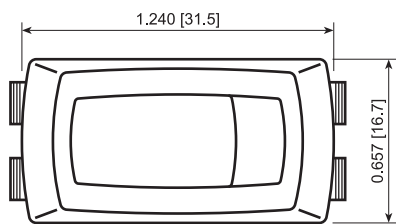
Note:
* = Option Available with Illumination

Custom Colors and Markings Available Upon Request For Illuminated Switches Only

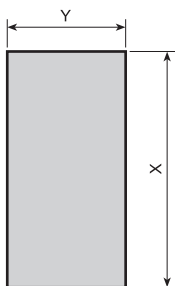
EXAMPLE PART NUMBERS:

- RE11131000-118 1P Off-On
Black Body, Red Illum. Actuator, No Marking
- RE11131100 1P Off-On
Black Body/Actuator, No Marking
- RE11131121 1P Off-On
Black Body/Actuator, I/O Vert.
- RE111C1100 1P Off-On
Black Body/Actuator, No Marking
- RE111C1121 1P Off-On
Black Body/Actuator, I/O Vert.
- RE11331100 1P On-On
Black Body/Actuator, No Marking
- RE113C1100 1P On-On
Black Body/Actuator, No Marking





Panel Cutout



	X	Y
RSC1-Series	1.126 [28.6]	0.547 [13.9]
RSC2-Series	1.071 [27.2]	0.476 [12.1]
RSC3-Series	1.071 [27.2]	0.547 [13.9]
RSC4-Series	1.126 [28.6]	0.476 [12.1]

Actuator Options

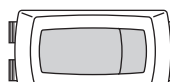


Bi-Color



Flat

Illumination Options



Full

Terminal Options



6.3mm Tab
(Small Hole)



6.3mm Tab
(Large Hole)



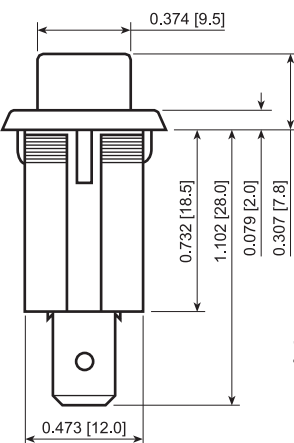
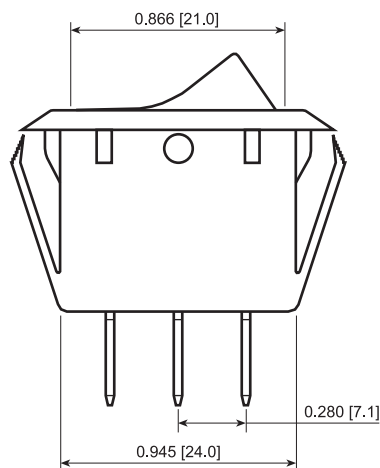
4.8mm Tab



Solder



Solder
(Low Clearance)



RSC241D125Z11

RSC141D1A24

RSC341D1123



RSC241D2200



RSC141D1021-116

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
Curved Actuators:										
RSC1 - 28.6 x 13.9 Cutout	1 - 4.8mm Tab	1 - Off-On (*)	C - 15A 125V	1 - Black	0 - Full Illum.	0 - None	0 - None	1 - Full	0 - Clear	3 - 6V
RSC2 - 27.2 x 12.1 Cutout	4 - 6.3mm Tab (Small Hole)	3 - On-On	D - 20A 125V	2 - White	1 - Black	1 - Black	1 - I/O Vert.		1 - Red	4 - 12V
RSC3 - 27.2 x 13.9 Cutout	5 - Solder	4 - Off-(On)		3 - Almond	2 - White	2 - White	2 - ON/OFF/ON Vert.		2 - Amber	5 - 24V
RSC4 - 28.6 x 12.1 Cutout	9 - 6.3mm Tab (Large Hole)	5 - On-Off-On		4 - Grey	3 - Almond	8 - Red	3 - ON/OFF Vert.		3 - Green	6 - 125V
		A - On-(Off)		9 - Red	4 - Grey		4 - ON/OFF Horiz.		4 - Blue	7 - 250V
		B - On-(On)			5 - Orange		9 - I/O Horiz.			
		C - On-Off-(On)			7 - Blue		R - I/O Horiz.			
Flat Actuators:										
RSCF1 - 28.6 x 13.9 Cutout	C - Solder (Low Clearance)				8 - Green		S - I/O Vert.			
RSCF2 - 27.2 x 12.1 Cutout					9 - Red					
RSCF3 - 27.2 x 13.9 Cutout										
RSCF4 - 28.6 x 12.1 Cutout										

Note:
* = Option Available with Illumination

Bi-Color:
A - Black / Red
B - Black / White
C - White / Red

Custom Colors and Markings Available Upon Request

For Illuminated Switches Only

FEATURES:

- Excellent Quality and Reliability
- 4 Bodies to Cover Many Popular Cutouts
- High Current Capacity
- Illuminated and Bi-Color Actuators

SPECIFICATIONS:

RATING: RATING OPTION D:

- 20A 125VAC [UL, CSA]
- 16A 250VAC [UL, CSA]
- 1/4HP 125VAC [UL]
- 3/4HP 250VAC [UL]
- 16(4)A 250V~ 1E4 T125 [European]
- 20(8)A 250V~ 1E4 T125 [European]
- 10(2)A 250V~ 5E4 T125 [European]

RATING OPTION C:

- 15A 125VAC [UL, CSA]
- 10(4)A 250V~ 1E4 T85 [European]

- TEMPERATURE: -20°C to 65°C [UL, CSA]
- 20°C to 105°C [UL, CSA]
- 20°C to 125°C [European]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 20mΩ Max. at 1A 5VDC

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,000VAC for 1 Minute

MATERIALS:

Body: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver

TERMINALS: Silver Plated Copper

EXAMPLE PART NUMBERS:

RSC141D1000-126 1P Off-On
Black Body, Amber Illum. Actuator, 125V

RSC141D1100 1P Off-On
Black Body/Actuator, No Marking

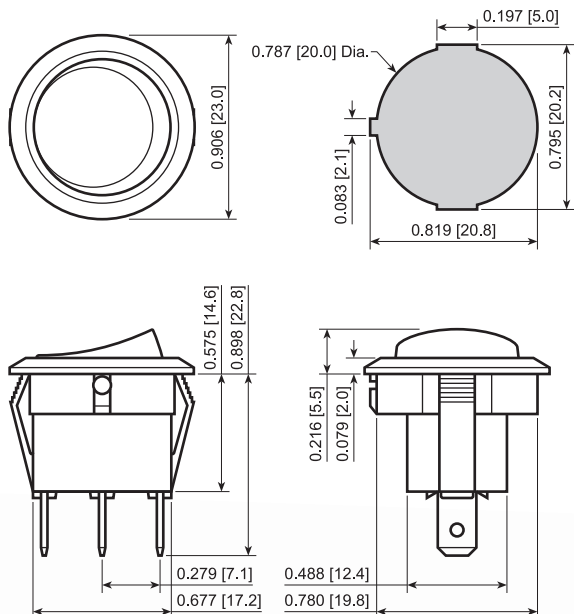
RSC141D1121 1P Off-On
Black Body/Actuator, I/O Vert.

RSC141D2200 1P Off-On
White Body/Actuator, No Marking

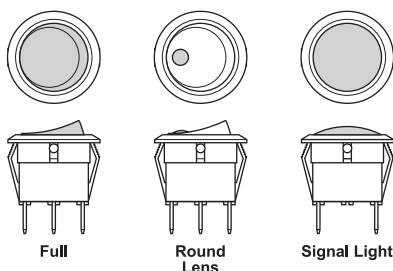
RR1 Series



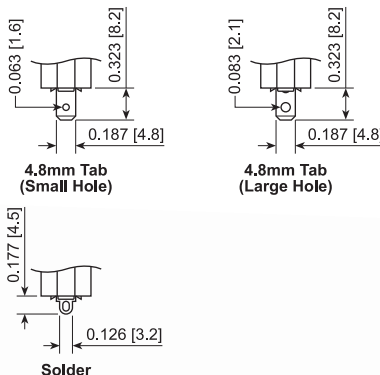
Panel Cutout



Illumination Options



Terminal Options



FEATURES:

- Aesthetically Designed
- High Ratings with UL and VDE Approvals
- Single Pole With Many Functions
- Full and Round Lens Illumination Options

SPECIFICATIONS:

RATING: RATING OPTION C:

- 16A 125VAC [UL, cUL]
- 10A 250VAC [UL, cUL]
- 1/3HP 125/250VAC [UL, cUL]
- 10(4)A 250V~ 1E4 T125/55 [VDE]
- 10(2)A 250V~ 5E4 T85/55 [VDE]

RATING OPTION 3:

- 10A 125VAC [UL, cUL]
- 6(2)A 250V~ 1E4 T125/55 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]
-20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max. at 50VAC

INSULATION RESISTANCE: 100MΩ Min. at 500VAC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper



RR11131100-236



RR11001000-144



RR1153112S

RR111C1021-116

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RR1 - Standard Body	1 - 4.8mm Tab (Small Hole) 5 - Solder 8 - 4.8mm Tab (Large Hole)	0 - Signal Light (*) 1 - Off-On (*) 3 - On-On 4 - Off-(On) 5 - On-Off-On A - On-(Off) B - On-(On) C - On-Off-(On)	0 - Signal Light 3 - 10A 125VAC C - 16A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full Illum. 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/H Horiz. S - I/O/H Vert. R - I/O Horiz.	1 - Full 2 - Round	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 6 - 125V 7 - 250V

Note:
* = Option Available with Illumination

Custom Colors and Markings Available Upon Request For Illuminated Switches Only

EXAMPLE PART NUMBERS:

- RR11131100 1P Off-On
Black Body/Actuator, No Marking
- RR11131121 1P Off-On
Black Body/Actuator, I/O Vert.
- RR11132200 1P Off-On
White Body/Actuator, No Marking
- RR111C1000-116 1P Off-On
Black Body, Red Illum. Actuator, No Marking
- RR111C1100 1P Off-On
Black Body/Actuator, No Marking
- RR111C1121 1P Off-On
Black Body/Actuator, I/O Vert.
- RR111C1123 1P Off-On
Black Body/Actuator, ON/OFF Vert.
- RR111C1921 1P Off-On
Black Body, Red Actuator, I/O Vert.
- RR111C2211 1P Off-On
White Body/Actuator, I/O Vert.



RR5 Series



High Amperage



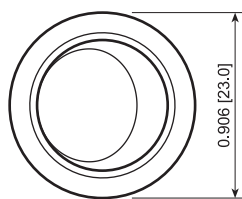
PCB Mount



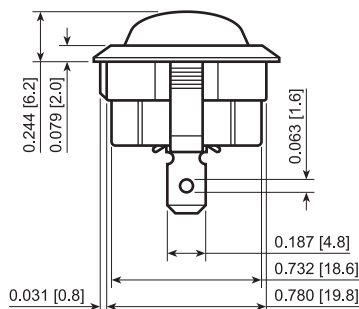
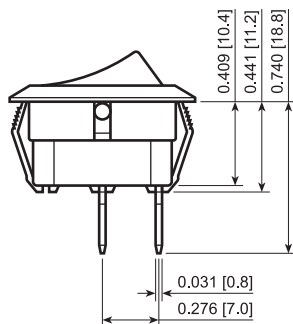
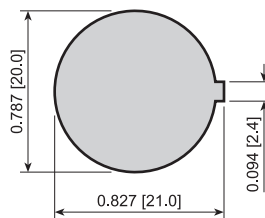
Front Panel Mount



RoHS



Suggested Panel Cutout



FEATURES:

- Aesthetically Designed
- High Ratings with UL and ENEC Approvals
- Single Pole With Various Functions
- Short Body for Low Clearance Applications

SPECIFICATIONS:

RATING: *RATING OPTION D:*

20A 125VAC T65 [UL, cUL]

12A 250VAC T65 [UL, cUL]

10(4)A 250V~ 5E4 T125 [ENEC]

TEMPERATURE: -20°C to 65°C [UL, cUL]

-20°C to 125°C [ENEC]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max. at 50VAC

INSULATION RESISTANCE: 100MΩ Min. at 500VAC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

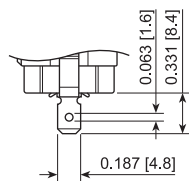
BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

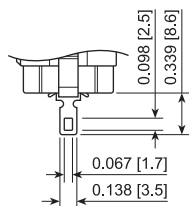
CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper

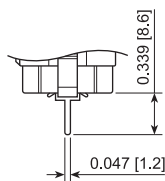
Terminal Options



4.8mm Tab



Solder



PCB Pin



RR51D1123

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type
RR5	1 - 4.8mm Tab (Small Hole) 3 - PCB Pins 5 - Solder	1 - Off-On 4 - Off-(On)	D - 20A 125VAC	1 - Black 2 - White 4 - Grey 9 - Red	1 - Black 2 - White 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. R - I/O Horiz.

Custom Colors and Markings Available Upon Request

EXAMPLE PART NUMBERS:

RR51D1100 1P Off-On
Black Body/Actuator, No Marking

RR51D1121 1P Off-On
Black Body/Actuator, I/O Vert.



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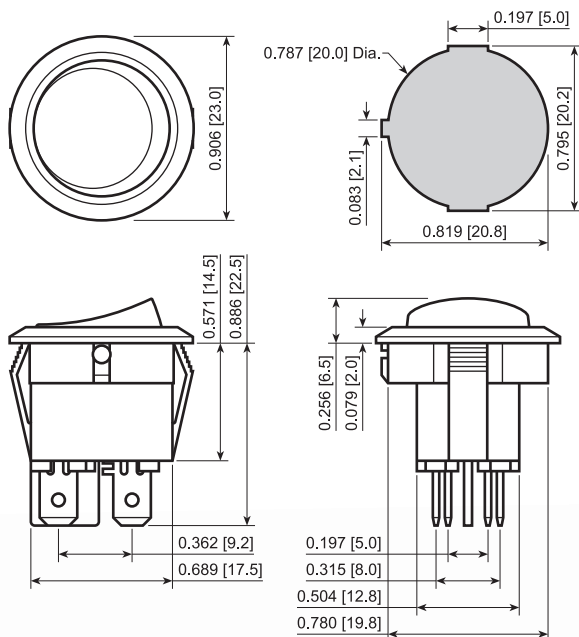
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

RR8 Series



Panel Cutout

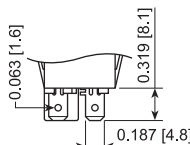


Illumination Options

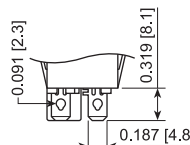


Full

Terminal Options



4.8mm Tab
(Small Hole)



Solder Tab

FEATURES:

- Aesthetically Designed
- High Ratings with UL and VDE Approvals
- Full Illumination Options

SPECIFICATIONS:

RATING: RATING OPTION C:

- 16A 125VAC [UL, cUL]
- 10A 250VAC [UL, cUL]
- 1/3HP 125/250VAC [UL, cUL]
- 10(4)A 250V~ 1E4 T125/55 [VDE]
- 10(2)A 250V~ 5E4 T85/55 [VDE]

RATING OPTION 3:

- 10A 125VAC [UL, cUL]
- 6(2)A 250V~ 1E4 T125/55 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]
-20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max. at 50VAC

INSULATION RESISTANCE: 100MΩ Min. at 500VAC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper



RR81131121



RR812C1700



RR851C1100



RR852C1000-116

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RR8	1 - 4.8mm Tab 5 - Solder Tab	1 Pole: 1 - Off-On 2 Pole: 2 - Off-On	3 - 10A 125VAC C - 16A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full Illum. 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. R - I/O Horiz.	1 - Full	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 6 - 125V 7 - 250V

Custom Colors and Markings Available Upon Request

For Illuminated Switches Only

EXAMPLE PART NUMBERS:

RR81231100 2P Off-On
Black Body/Actuator, No Marking

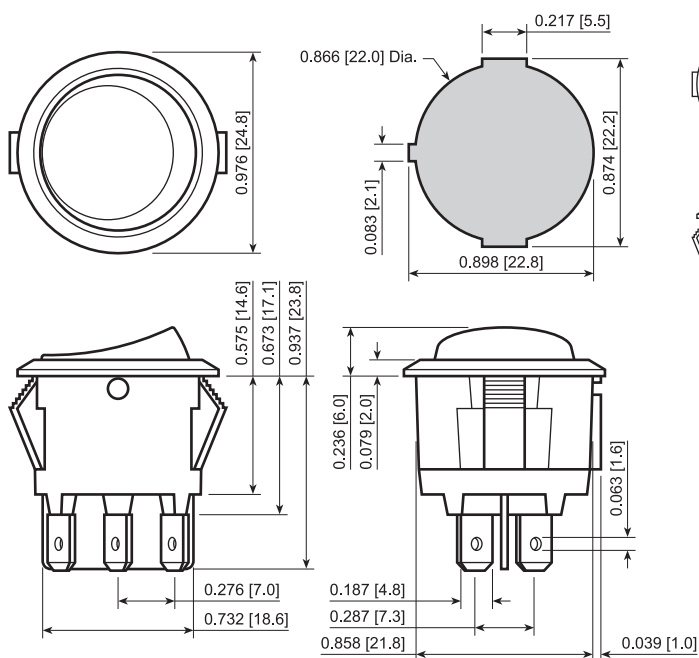
RR81231121 2P Off-On
Black Body/Actuator, I/O Vert.





Panel Cutout

Illumination Options



FEATURES:

- Up to 2 Pole and 2 Throw
- High Ratings with UL Approvals
- Full Illumination Options
- PVC Cap for Water Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

- 15A 125VAC [UR, cUR]
- 10A 250VAC [UR, cUR]
- 1/3HP 125/250VAC [UR, cUR]

RATING OPTION 3:

- 10A 125VAC [UR, cUR]

TEMPERATURE: -20°C to 105°C [UR, cUR]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max. at 50VAC

INSULATION RESISTANCE: 100MΩ Min. at 500VAC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper

RRA1631129



RRA16C112S / ACC-P04

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
RRA	1 - 4.8mm Tab	1 Pole: 1 - Off-On 3 - On-On 5 - On-Off-On 2 Pole: 2 - Off-On 6 - On-On 6 - On-Off-On	3 - 10A 125VAC C - 15A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full Illum. 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.	1 - Full	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V

Custom Colors and Markings Available Upon Request For Illuminated Switches Only

EXAMPLE PART NUMBERS:

RRA1G31100 2P On-On
Black Body/Actuator, No Marking

RRA1631100 2P On-Off-On
Black Body/Actuator, I/No Marking

RRG3 Series



High Amperage



High Temperature

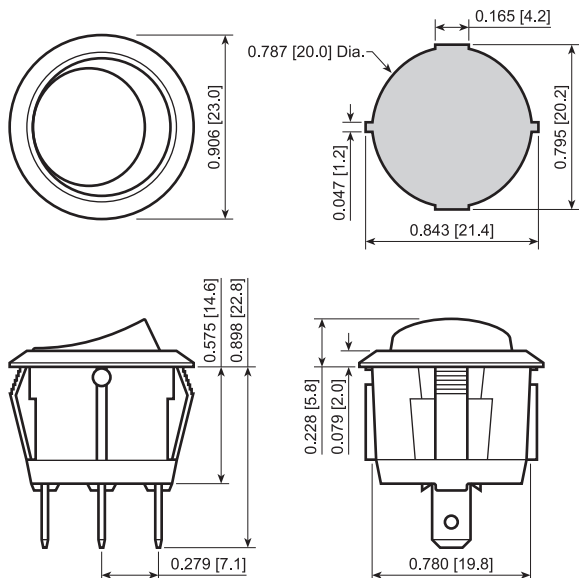


Front Panel Mount

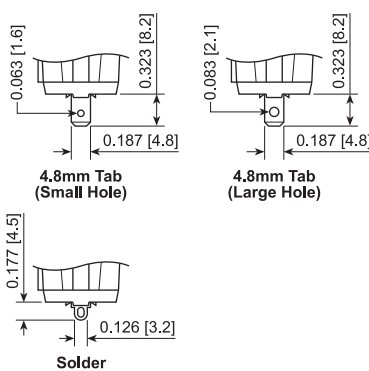


RoHS

Panel Cutout



Terminal Options



FEATURES:

- Aesthetically Designed
- High Ratings with UL and VDE Approvals
- Single Pole With Many Functions
- Glossy Finish

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125VAC [UL, cUL]
10A 250VAC [UL, cUL]
1/3HP 125/250VAC [UL, cUL]
10(4)A 250V~ 1E4 T125/55 [VDE]

RATING OPTION 3:

10A 125VAC [UL, cUL]
6A 250VAC [UL, cUL]
6A 250V~ 1E4 T85 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]
-20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper



RRG31131211



RRG35431100



RRG311322Z02Z13

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type
RRG3	1 - 4.8mm Tab (Small Hole) 5 - Solder 8 - 4.8mm Tab (Large Hole)	1 - Off-On 3 - On-On 4 - Off-(On) 5 - On-Off-On A - On-(Off) B - On-(On) C - On-Off-(On)	3 - 10A 125VAC C - 16A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.

Custom Colors and Markings Available Upon Request

EXAMPLE PART NUMBERS:

RRG38131121 1P Off-On
Black Body/Actuator, I/O Vert.

RRG38132200 1P Off-On
White Body/Actuator, No Marking

RRG381C1121 1P Off-On
Black Body/Actuator, I/O Vert.



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RRGA Series



High
Amperage



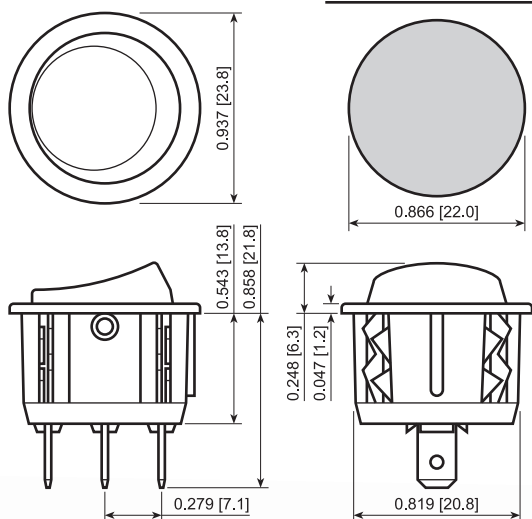
High
Temperature



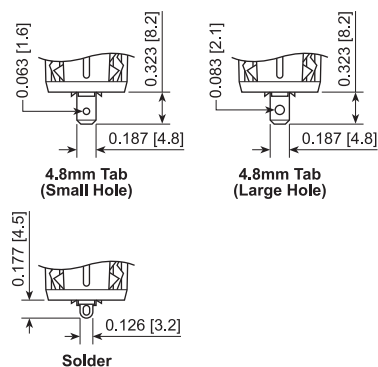
Front
Panel Mount



Panel Cutout



Terminal Options



FEATURES:

- Aesthetically Designed
- High Ratings with UL and VDE Approvals
- Single Pole With Many Functions
- Glossy Finish

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125VAC [UL, cUL]
10A 250VAC [UL, cUL]
1/3HP 125/250VAC [UL, cUL]
10(4)A 250V~ 1E4 T125/55 [VDE]

RATING OPTION 3:

10A 125VAC [UL, cUL]
6A 250VAC [UL, cUL]
6A 250V~ 1E4 T85 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]
-20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

CONTACTS: Silver Alloy

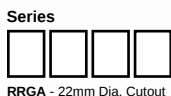
TERMINALS: Silver Plated Copper



RRGA113228E



RRGA1431100



RRGA - 22mm Dia. Cutout



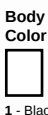
1 - 4.8mm Tab (Small Hole)
3 - On-On
5 - Solder
8 - 4.8mm Tab (Large Hole)



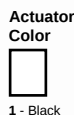
1 - Off-On
3 - On-On
4 - Off-(On)
5 - On-Off-On
A - On-(Off)
B - On-(On)
C - On-Off-(On)



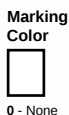
3 - 10A 125VAC
C - 16A 125VAC



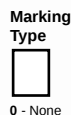
1 - Black
2 - White
3 - Almond
4 - Grey
9 - Red



1 - Black
2 - White
3 - Almond
4 - Grey
5 - Orange
7 - Blue
8 - Green
9 - Red



0 - None
1 - Black
2 - White
8 - Red



0 - None
1 - I/O Vert.
2 - ON/OFF/ON Vert.
3 - ON/OFF Vert.
4 - ON/OFF Horiz.
9 - I/O/II Horiz.
S - I/O/II Vert.
R - I/O Horiz.

Custom Colors and Markings Available Upon Request

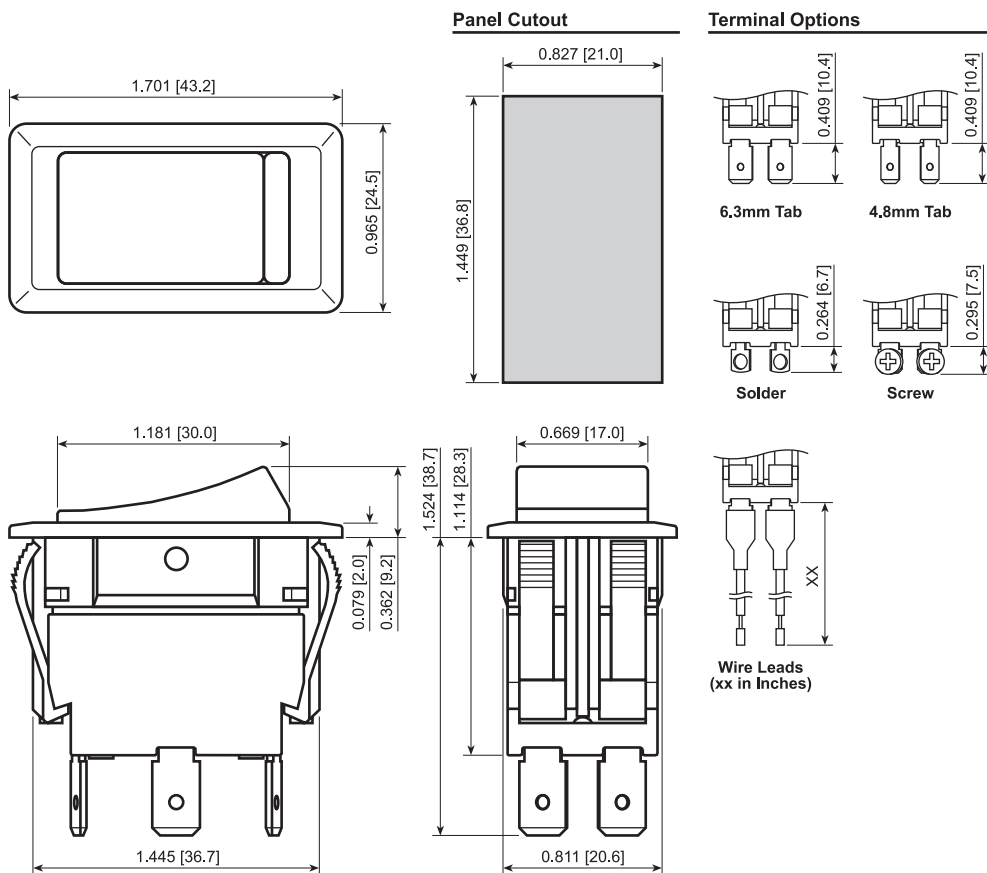
EXAMPLE PART NUMBERS:

RRGA8131121 1P Off-On
Black Body/Actuator, I/O Vert.

RRGA8132200 1P Off-On
White Body/Actuator, No Marking

RRGA81C1121 1P Off-On
Black Body/Actuator, I/O Vert.





FEATURES:

- Heavy Duty Ratings with cULus Approval
- Full Size Rocker Switch
- Internal Dust and Water Protection to IP54
- Glossy Finish Option

SPECIFICATIONS:

RATING: MAINTAINED SWITCHES:

- 20A 125VAC [cULus UL508]
- 15A 277VAC [cULus UL508]
- 2HP 125-250VAC [cULus UL508]

MOMENTARY SWITCHES:

- 20A 125VAC [cULus UL508]
- 15A 277VAC [cULus UL508]
- 1.5HP 125-250VAC [cULus UL508]

TEMPERATURE: -20°C to 55°C

ELECTRICAL LIFE: 6,000 Cycles [cULus]

CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 800MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 Standard

MATERIALS:

Body: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Brass

Silver Plated Brass



RVW52D1100



RVW42D2223

RVW46D1122

RVWW6Z02D1100

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type
RVW - Matte Finish RVWG - Glossy Finish	1 - 4.8mm Tabs 4 - 6.3mm Tabs 5 - Solder 6 - Screw	1 Pole: 1 - Off-On 3 - On-On 4 - Off-(On) 5 - On-Off-On A - On-(Off) B - On-(On) C - On-Off-(On) D - (On)-Off-(On)	D - 20A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - I/O Vert. 2 - ON/OFF/ON Vert. 3 - ON/OFF Vert. 4 - ON/OFF Horiz. 9 - I/O/II Horiz. S - I/O/II Vert. R - I/O Horiz.
	Variable Length: Wxx - Wire Leads	2 Pole: 2 - Off-On G - On-On E - Off-(On) 6 - On-Off-On F - On-(Off) H - On-(On) J - On-Off-(On) K - (On)-Off-(On)					

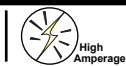
Custom Colors and Markings Available Upon Request



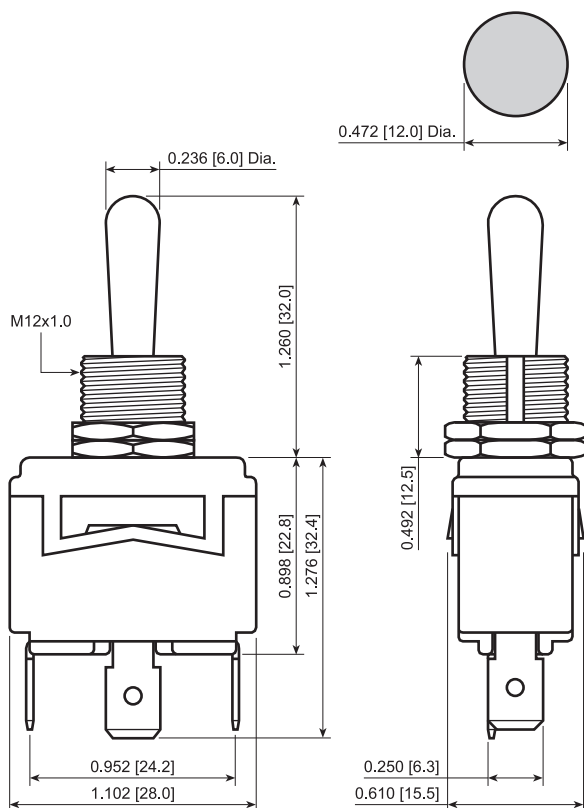
EXAMPLE PART NUMBERS:

- RVW41D1100 1P Off-On
Black Body/Actuator, No Marking
- RVW42D1100 2P Off-On
Black Body/Actuator, No Marking
- RVW42D1121 2P Off-On
Black Body/Actuator, I/O Vert.
- RVW43D1100 1P On-On
Black Body/Actuator, No Marking
- RVW45D1100 1P On-Off-On
Black Body/Actuator, No Marking
- RVW46D1100 2P On-Off-On
Black Body/Actuator, No Marking
- RVW4GD1100 2P On-On
Black Body/Actuator, No Marking
- RVWG41D1100 1P Off-On
Glossy, Black Body/Actuator, No Marking
- RVWG42D1100 2P Off-On
Glossy Black Body/Actuator, No Marking

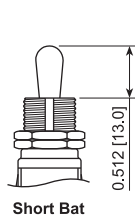
ST1 Series



Panel Cutout

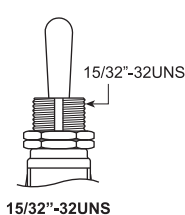


Actuator Options



Short Bat

Bushing Options



15/32\"-32UNS

Terminal Options



Solder



Screw



4.8mm Tab

Water Protection Options



Rubber Boot

FEATURES:

- Heavy Duty Rating with UL Approvals
- Many Functions Available
- Tab, Screw, and Solder Terminal Options
- Rubber Boot for Water and Dust Protection

SPECIFICATIONS:

RATING: MAINTAINED SWITCHES:

- 20A 125VAC [cULus]
- 15A 250VAC [cULus]
- 2HP 125-250VAC [cULus]

MOMENTARY SWITCHES:

- 20A 125VAC [cULus]
- 15A 250VAC [cULus]
- 1.5HP 125-250VAC [cULus]

TEMPERATURE: -20°C to 85°C

ELECTRICAL LIFE: 6,000 Cycles

CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 800MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Phenolic, UL94 V-0

ACTUATOR: Nickel Plated Brass

BUSHING: Nickel Plated Brass

HOUSING: Stainless Steel

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Brass

Series	Terminal	Function	Rating	Actuator Type	Bushing Type
ST1 - 1 Pole	1 - 4.8mm Tabs 2 - Solder 4 - 6.3mm Tabs 6 - Screw	1 Pole: 1 - Off-On 3 - On-On 4 - Off-(On), Middle-End 5 - On-Off-On C - On-Off-(On) D - (On)-Off-(On)	D - 20A 125VAC	0 - Standard Bat 1 - Short Bat	0 - M12x1.0 2 - 15/32\"-32UNS

Variable Length:
Wxx - Wire Leads
(xx in Inches)



ST1W61D00

ST161D10



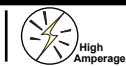
Accessories Series	Type	Options
ACC	Rubber Boot: B03 - For Standard Bat	Colors for Boot: 2 - Black
	Marking Plates: M01 - ON/Off	Colors for Marking Plates: 3 - Black, Red, and Silver
	Hardware: N02 - Knurled Nut	Threading: 3 - 15/32\"-32UNS 5 - M12x1.0

EXAMPLE PART NUMBERS:

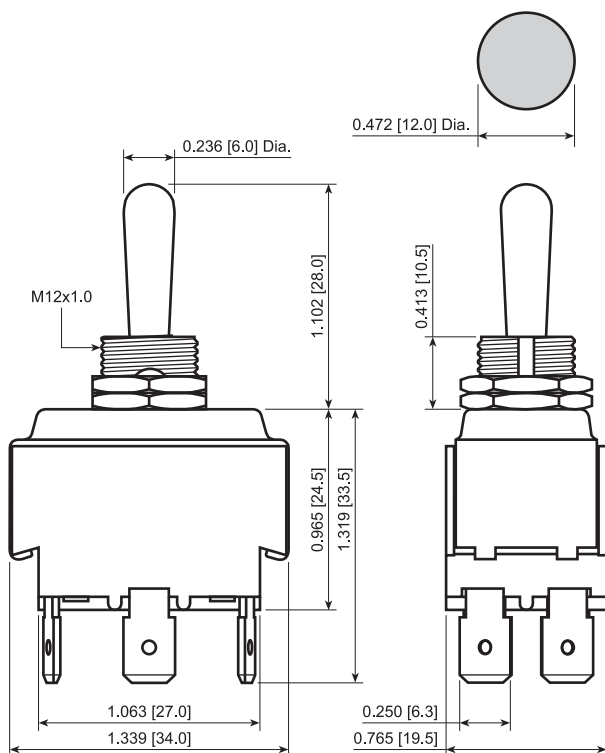
ST121D00	1P Off-On Standard Actuator/Bushing, Solder
ST123D00	1P On-On Standard Actuator/Bushing, Solder
ST124D00	1P Off-(On) Standard Actuator/Bushing, Solder
ST125D00	1P On-Off-On Standard Actuator/Bushing, Solder
ST12DD00	1P (On)-Off-(On) Standard Actuator/Bushing, Solder
ST141D00	1P Off-On Standard Actuator/Bushing, 0.250\" QC
ST143D00	1P On-On Standard Actuator/Bushing, 0.250\" QC
ST144D00	1P Off-(On) Standard Actuator/Bushing, 0.250\" QC



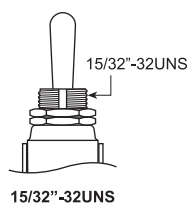
ST2 Series



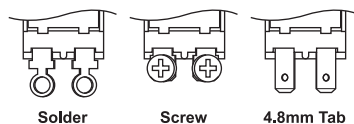
Panel Cutout



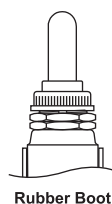
Bushing Options



Terminal Options



Water Protection Options



FEATURES:

- Heavy Duty Rating with UL Approvals
- Many Functions Available
- Tab, Screw, and Solder Terminal Options
- Rubber Boot for Water and Dust Protection

SPECIFICATIONS:

RATING: MAINTAINED SWITCHES:

20A 125VAC [cULus]
15A 250VAC [cULus]
2HP 125-250VAC [cULus]

MOMENTARY SWITCHES:

20A 125VAC [cULus]
15A 250VAC [cULus]
1.5HP 125-250VAC [cULus]

TEMPERATURE: -20°C to 85°C

ELECTRICAL LIFE: 6,000 Cycles

CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 800MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Phenolic, UL94 V-0

ACTUATOR: Nickel Plated Brass

BUSHING: Nickel Plated Brass

HOUSING: Stainless Steel

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Brass

Series	Terminal	Function	Rating	Actuator Type	Bushing Type
ST2	1 - 4.8mm Tabs 2 - Solder 4 - 6.3mm Tabs 6 - Screw Variable Length: Wx - Wire Leads (x in Inches)	2 Pole: 2 - Off-On G - On-On E - Off-(On) 6 - On-Off-On J - On-Off-(On) K - (On)-Off-(On)	D - 20A 125VAC	0 - Standard Bat	0 - M12x1.0 2 - 15/32\"-32UNS

Note:
Terminal bridging options available. See "Z02" function for polarity reversal in example photo.



ST226D00
ACC-B03-2
ACC-M01-3

ST24Z02D00



Accessories Series	Type	Options
ACC	Rubber Boot: B03 - For Standard Bat Marking Plates: M01 - ON/OFF Hardware: N02 - Knurled Nut	Colors for Boot: 2 - Black Colors for Marking Plates: 3 - Black, Red, and Silver Threading: 3 - 15/32\"-32UNS 5 - M12x1.0

EXAMPLE PART NUMBERS:

ST242D00 2P Off-On
Standard Actuator/Bushing, 0.250\" QC

ST246D00 2P On-Off-On
Standard Actuator/Bushing, 0.250\" QC



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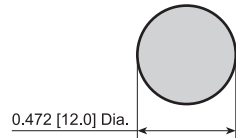
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

TOGGLE

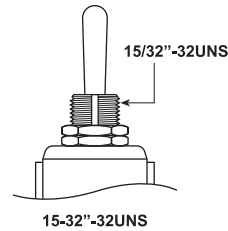
ST3 Series



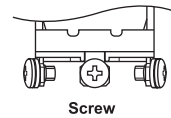
Panel Cutout



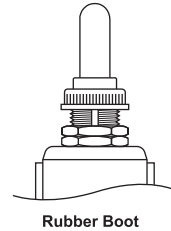
Bushing Options



Terminal Options



Water Protection Options



FEATURES:

- Heavy Duty Rating with UL Approvals
- Tab, Screw, and Solder Terminal Options
- Rubber Boot for Water and Dust Protection

SPECIFICATIONS:

RATING: 24A 125VAC [cULus]
15A 277VAC [cULus]
2HP 125-250VAC [cULus]

TEMPERATURE: -20°C to 85°C

ELECTRICAL LIFE: 6,000 Cycles

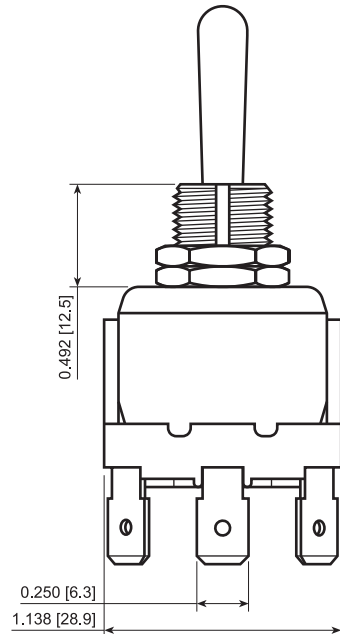
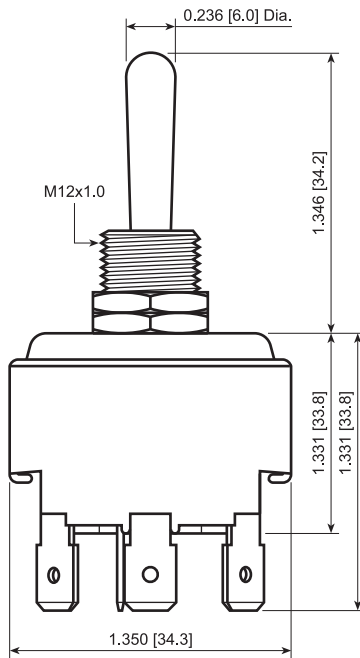
CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 800MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

Body: Phenolic, UL94 V-0
ACTUATOR: Nickel Plated Brass
BUSHING: Nickel Plated Brass
HOUSING: Stainless Steel
CONTACTS: Silver Alloy
TERMINALS: Silver Plated Brass



Series	Terminal	Function	Rating	Actuator Type	Bushing Type
ST3 - 3 Pole	1 - 4.8mm Tabs 2 - Solder 4 - 6.3mm Tabs 6 - Screw	3 Pole: R - Off-On S - On-On T - On-Off-On	E - 24A 125VAC	0 - Standard Bat	0 - M12x1.0 2 - 15/32"-32UNS

Variable Length
Wxx - Wire Leads
(xx in Inches)

Note:
Terminal bridging options available.



ST34TE00

ST34RE00



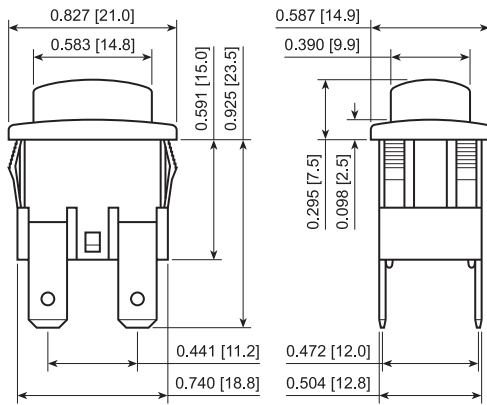
Accessories Series	Type	Options
ACC	Rubber Boot: B03 - For Standard Bat	Colors for Boot: 2 - Black
	Marking Plates: M01 - ON/OFF	Colors for Marking Plates: 3 - Black, Red, and Silver
	Hardware: N02 - Knurled Nut	Threading: 3 - 15/32"-32UNS 5 - M12x1.0

EXAMPLE PART NUMBERS:

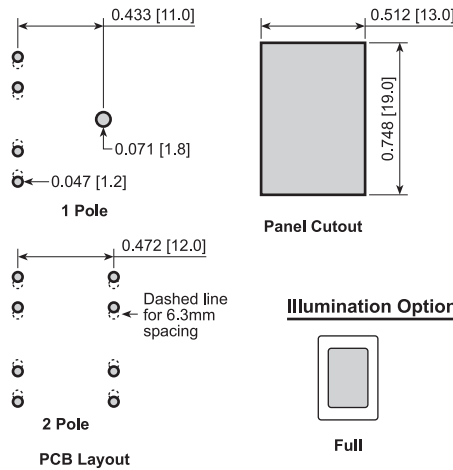
ST34RE00 3P Off-On
Standard Actuator/Bushing, 6.3mm tab



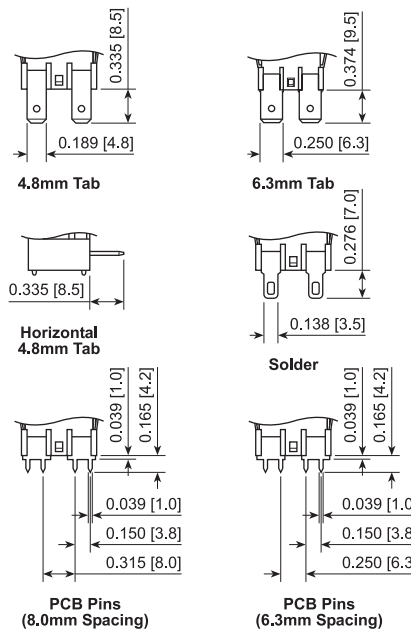
PA4 Series



Mounting Options



Terminal Options



FEATURES:

- Durable, Robust and Economical
- Popular 13mm x 19mm Cutout
- High Power Ratings
- Standard and Water-resistant Versions
- Illuminated Versions

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125/250VAC [UR, cUR]
 16(4)A 250V~ 1E4 T125/55 [ENEC]

RATING OPTION J:

16A 125/250VAC [UR, cUR]
 16(8)A 250V~ 1E4 T125/55 [ENEC]

TEMPERATURE: -20°C to 65°C [UR, cUR]

-20°C to 125°C [ENEC]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 20mΩ Min. at 1A 5VDC

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,000VAC for 1 Minute

MATERIALS:

UPPER BODY: Polyamide 6/6, UL94 V-2

LOWER BODY: PBT, UL94 V-2

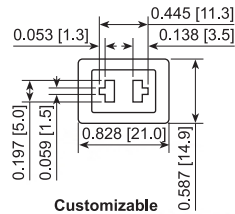
ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

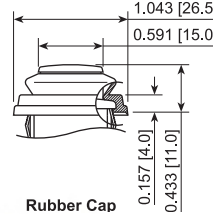
CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper

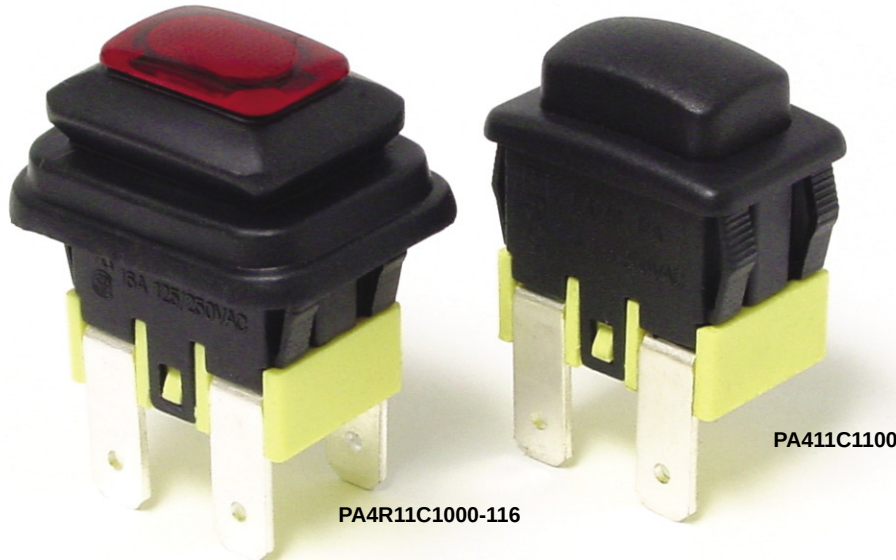
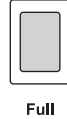
Actuator Options



Water Protection Options



Illumination Options



PA421C4000-124



PA431C1700



PA411C1900

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
  										
PA4 - Std. Version	1 - 4.8mm Tab	1 Pole:	C - 16A 125/250VAC	1 - Black	0 - Full Illum.	0 - None	0 - None	1 - Full	0 - Clear	3 - 6V
PA4R - Rubber Cap	2 - Solder	1 - Off-On	[UL, CSA]	2 - White	1 - Black	1 - Black	1 - Power Symbol Vert.	1 - Red	4 - 12V	
PA4C - Customizable	3 - PCB Pins (8.0mm)	4 - Off-(On)	16(4)A 250V~ [ENEC]	4 - Grey	2 - White	2 - White	2 - Power Symbol Horiz.	2 - Amber	5 - 24V	
	4 - PCB Pins (6.3mm)	2 Pole:	J - 16A 125/250VAC	5 - Orange	4 - Grey	8 - Red	3 - Reset Symbol Vert.	3 - Green	6 - 125V	
	5 - Horizontal 4.8mm Tabs	2 - Off-On	[UL, CSA]	7 - Blue	5 - Orange		4 - Reset Symbol Horiz.	4 - Blue	7 - 250V	
	6 - 6.3mm Tab	E - Off-(On)	16(8)A 250V~ [ENEC]	8 - Green	7 - Blue		5 - POWER Vert.	5 - Yellow		
				9 - Red	8 - Green		6 - POWER Horiz.			
					9 - Red		7 - RESET Vert.			
							8 - RESET Horiz.			

Custom Colors and Markings Available Upon Request

For Illuminated Switches Only

EXAMPLE PART NUMBERS:

PA411C1100 1P Off-On
 Black Body/Actuator, 4.8mm Tab

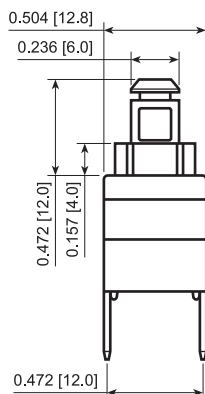
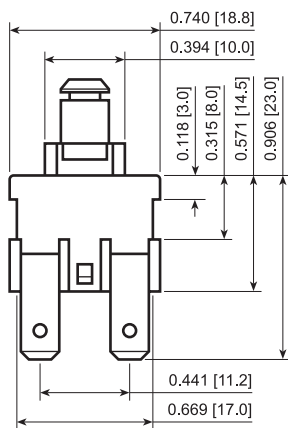
PA414C1100 1P Off-(On)
 Black Body/Actuator, 4.8mm Tab

PA412C1100-116 2P Off-On
 Black Body, Red Actuator, 125V, 4.8mm Tab

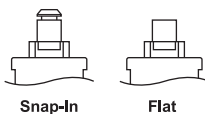
PA421C1100 1P Off-On
 Black Body/Actuator, Solder Tab



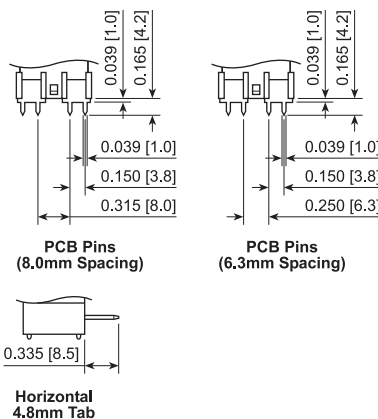
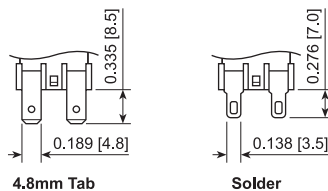
PA5 Series



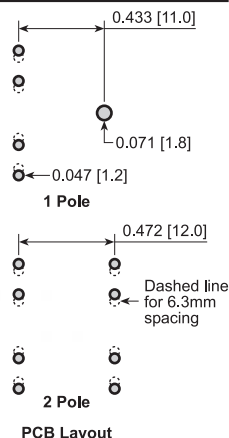
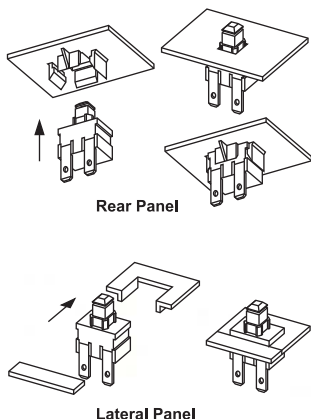
Actuator Options



Terminal Options



Mounting Options



FEATURES:

- Durable, Robust and Economical
- Easily Customized Actuator
- High Power Ratings
- Engineered For Use as a Foot Switch
- Popular Industry Design

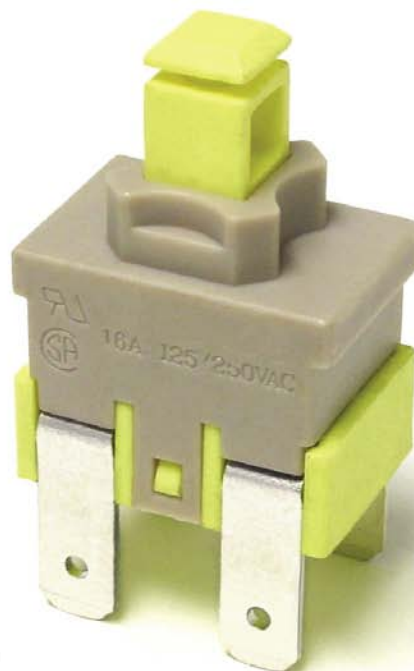
SPECIFICATIONS:

RATING: RATING OPTION C:
16A 125/250VAC [UL, cUL]
16(4)A 250V~ 1E4 T125/55 [ENEC]
RATING OPTION J:
16A 125/250VAC [UL, cUL]
16(8)A 250V~ 1E4 T125/55 [ENEC]
TEMPERATURE: -20°C to 125°C
ELECTRICAL LIFE: 10,000 Cycles
CONTACT RESISTANCE: 20mΩ Max. at 1A 5VDC
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 1,000VAC for 1 Minute

MATERIALS:

UPPER BODY: Polyamide 6/6, UL94 V-2
LOWER BODY: PBT, UL94 V-2
ACTUATOR: PBT, UL94 V-2
CONTACTS: Silver Alloy
TERMINALS: Silver Plated Copper

PA512C



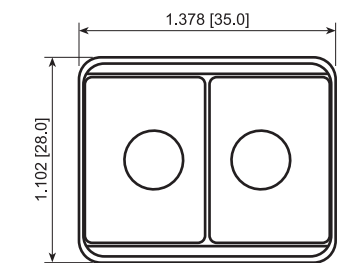
PA524C

Series	Terminal	Function	Rating
PA5 - Snap-In Actuator	1 - 4.8mm Tab	1 Pole:	C - 16A 125/250AC [UL, CSA]
PA5F - Flat Actuator	2 - Solder	1 - Off-On	16(4)A 250V~ 1E4 [ENEC]
	3 - PCB Pins (8.0mm Spacing)	4 - Off-(On)	
	4 - PCB Pins (6.3mm Spacing)	2 Pole:	J - 16A 125/250AC [UL, CSA]
	5 - Horizontal 4.8mm Tab	2 - Off-On	16(8)A 250V~ 1E4 [ENEC]
		E - Off-(On)	

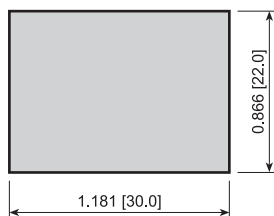
EXAMPLE PART NUMBERS:

PA511C	1P Off-On
4.8mm Tab Terminals, Snap-In Actuator	
PA512C	2P Off-On
4.8mm Tab Terminals, Snap-In Actuator	
PA514C	1P Off-(On)
4.8mm Tab Terminals, Snap-In Actuator	
PA51EC	2P Off-(On)
4.8mm Tab Terminals, Snap-In Actuator	

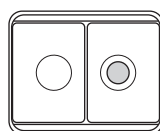
PB2 Series



Suggested Panel Cutout

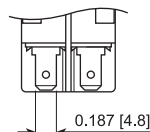


Illumination Options



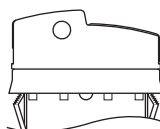
Round Lens

Terminal Options



4.8mm Tab

Safety Lock Option



Safety Lock

FEATURES:

- Popular 22mm x 30mm Cutout
- High Power Ratings
- Internal O-rings for Water Resistance
- Illumination Options

SPECIFICATIONS:

RATING: 20A 125VAC [cURus UL508]
12A 250VAC [cURus UL508]
European Approvals Pending

TEMPERATURE: -20°C to 85°C

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 5MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54

MATERIALS:

BODY: Polyamide 6/6

BEZEL: Polyamide 6/6

ACTUATOR: Polyamide 6/6

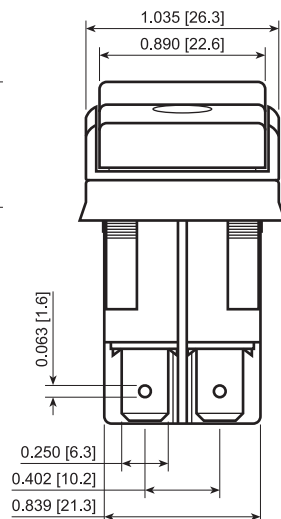
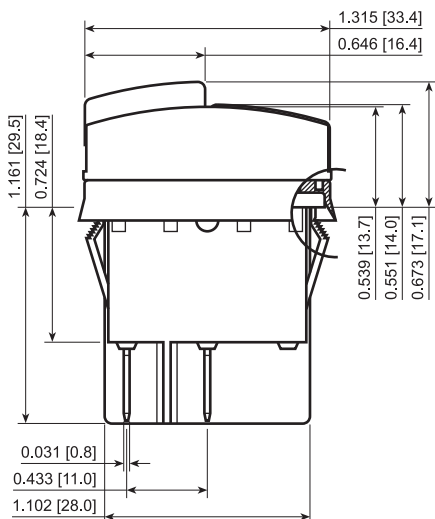
LENS: Polycarbonate

GASKET: Polyvinyl Chloride

CONTACTS: Silver Plated Copper

TERMINALS: Silver Plated Brass

O-Ring: Silicone



PB242D1100

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
☐ PB2 - Std. Version ☐ PB2L - Safety Lock	☐ 1 - 4.8mm Tab ☐ 4 - 6.3mm Tab	☐ 1 Pole: 1 - Off-On 3 - On-On 2 Pole: 2 - Off-On G - On-On	☐ D - 20A 125VAC ☐ 12A 250VAC	☐ 1 - Black ☐ 2 - White	☐ 1 - Black ☐ 2 - White ☐ A - Red/Green	☐ 0 - None ☐ 1 - Black ☐ 2 - White	☐ 0 - None ☐ 1 - I/O Vert. ☐ 3 - ON/OFF Vert. ☐ R - I/O Horiz.	☐ 2 - Round	☐ 0 - Clear ☐ 1 - Red ☐ 2 - Amber ☐ 3 - Green ☐ 4 - Blue	☐ 3 - 6V ☐ 4 - 12V ☐ 5 - 24V ☐ 6 - 125V ☐ 7 - 250V

Custom Colors and Markings Available Upon Request

For Illuminated Switches Only

EXAMPLE PART NUMBERS:

PB242D1100 2P Off-On
Black Body/Actuator, No Marking

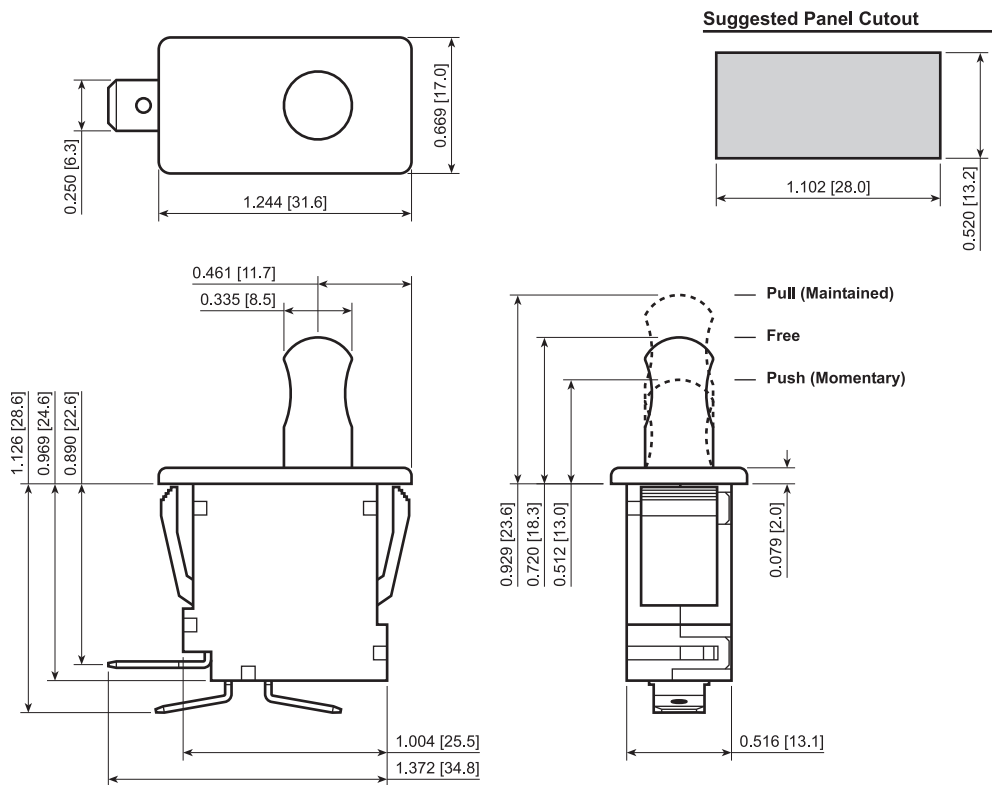


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FEATURES:

- Push and Pull Function
- Various Terminal Options
- High Ratings with UL approvals

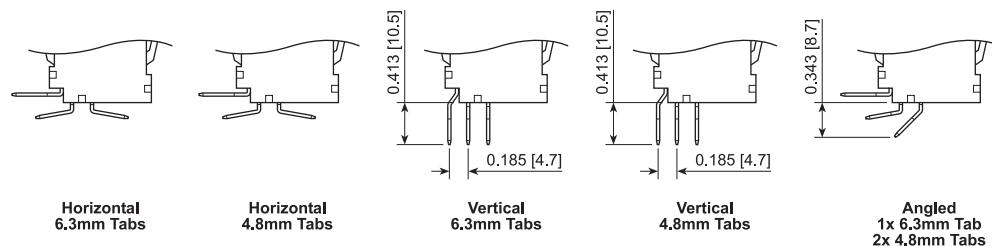
SPECIFICATIONS:

ELECTRICAL RATING: 16A 125VAC [cURus]
 12A 250VAC [cURus]
 1hp 125/250VAC [cURus]
TEMPERATURE: -20°C to 85°C [cURus]
ELECTRICAL LIFE: 6,000 Cycles [cURus]
CONTACT RESISTANCE: 50mΩ Max.

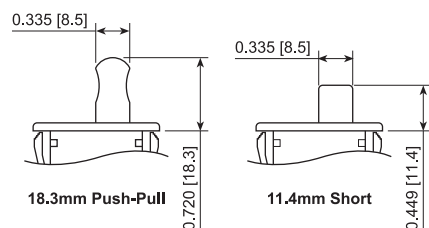
MATERIALS:

BODY: Polyamide 6/6
ACTUATOR: Polyamide 6/6
CONTACTS: Silver Alloy
TERMINALS: Silver Plated Brass

Terminal Options



Actuator Options



PP1-ET7-2B2

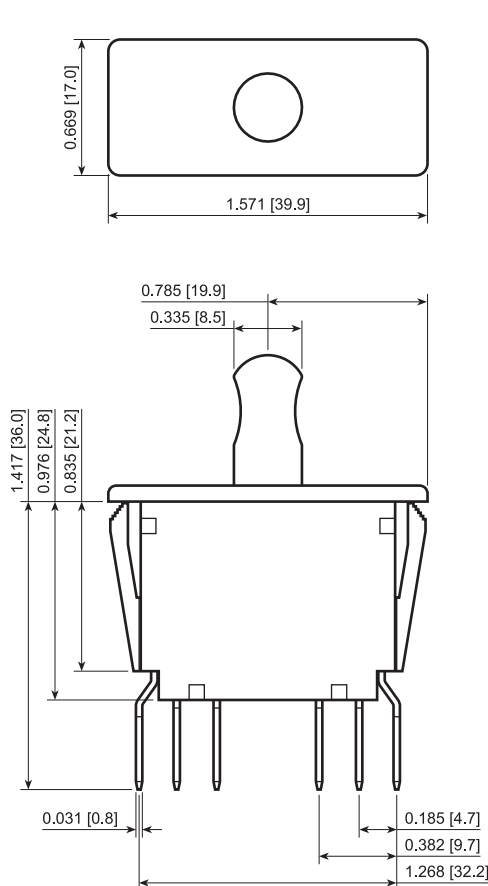


Series	Terminal Type	Function	Rating	Body Color	Actuator Height	Actuator Color
PP1	1 - 4.8mm Tabs, Vertical 4 - 6.3mm Tabs, Vertical D - 4.8mm Tabs, Horizontal E - 6.3mm Tabs, Horizontal F - 1x6.3mm, 2x4.8mm Tabs, Angled (*)	T - On ₁ -On ₂ -(On ₃)	7 - 16A 125VAC 12A 250VAC 1HP 125/250VAC	1 - Black 2 - White	B - 18.3mm Push-Pull D - 11.4mm Short (*)	2 - White

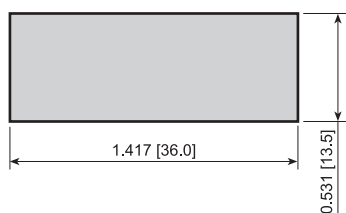
Note:
 * = Terminal F and actuator D only available together.

EXAMPLE PART NUMBERS:

PP1-ET7-2B2 1P On₁-On₂-(On₃)
 6.3mm Tabs, 16.3mm Push-Pull Actuator



Suggested Panel Cutout



FEATURES:

- Push-Pull or Momentary Functions
- Various Actuator and Terminal Options
- High Ratings with UL Approvals

SPECIFICATIONS:

ELECTRICAL RATING: 16A 125VAC [cURus]
 12A 250VAC [cURus]
 1hp 125/250VAC [cURus]
TEMPERATURE: -20°C to 85°C [cURus]
ELECTRICAL LIFE: 6,000 Cycles [cURus]
CONTACT RESISTANCE: 50mΩ Max.

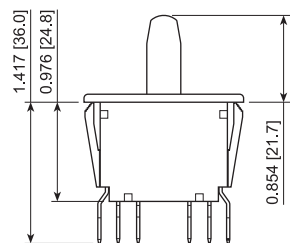
MATERIALS:

Body: Polyamide 6/6
ACTUATOR: Polyamide 6/6
CONTACTS: Silver Alloy
TERMINALS: Silver Plated Brass

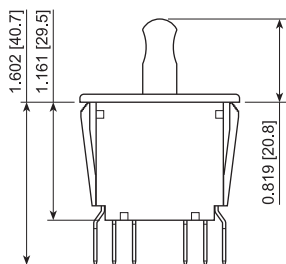


PP2-4U7-2B2

Actuator Options

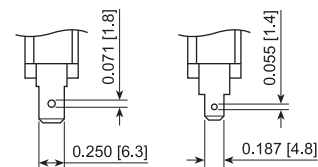


21.7mm Straight

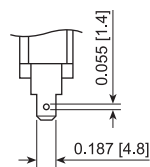


20.8mm Push-Pull

Terminal Options



6.3mm Tab



4.8mm Tab

PP2-4H7-2A2



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Terminal Type	Function	Rating	Body Color	Actuator Height	Actuator Color
PP2	1 - 4.8mm Tabs, Vertical 4 - 6.3mm Tabs, Vertical	H - On-(On) U - On ₁ -On ₂ -(On ₃)	7 - 16A 125VAC 12A 250VAC 1HP 125/250VAC	1 - Black 2 - White	A - 21.7mm Straight* B - 18.3mm Push-Pull** C - 20.8mm Push-Pull**	2 - White

Notes:
 * = Available with H function only.
 ** = Available with U function only.

EXAMPLE PART NUMBERS:

PP2-4H7-2A2 2P On-(On)
 6.3mm Tab, 19.7mm Straight Actuator
 PP2-4U7-2B2 2P On₁-On₂-(On₃)
 6.3mm Tab, 16.3mm Push-Pull Actuator



High Amperage



Illuminated



Water Protection



High Temperature



Front Panel Mount



UL cUL

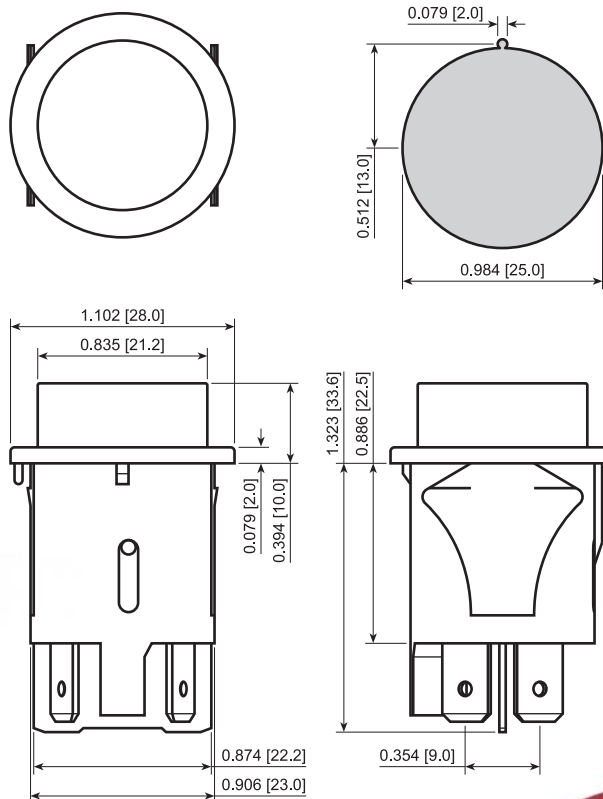


VDE

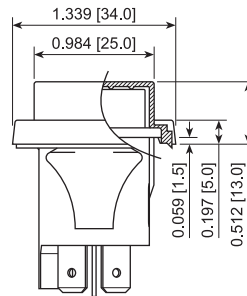


RoHS

Panel Cutout

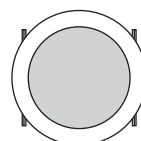


Water Protection Option



PVC Cap (IP54)

Illumination Option



FEATURES

- High Rating with UL and VDE Approvals
- Maintained and Momentary Option
- PVC Cap for Water and Dust Protection

SPECIFICATIONS:

RATING: RATING OPTION C:

16A 125VAC [UL, cUL]

3/4HP 250VAC [UL, cUL]

16(6)A 250V~ 1E4 T125 [VDE]

10(4)A 250V~ 5E4 T125 [VDE]

TEMPERATURE: -20°C to 105°C [UL, cUL]
 -20°C to 125°C [VDE]

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 35mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

Polycarbonate, UL94 V-2

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Brass



PR144C1200



PR144EC1100



PR144EC1000-116
ACC-F03-1

PR142C1000-116



Series	Terminal	Function	Rating	Body Color	Actuator Color	Marking Color	Marking Type	Lens Style	Lens Color	Lamp Voltage
PR1	4 - 6.3mm Tabs	1 Pole: 1 - Off-On 4 - Off-(On) 2 Pole: 2 - Off-On E - Off-(On)	C - 16A 125VAC	1 - Black 2 - White 3 - Almond 4 - Grey 9 - Red	0 - Full Illum. 1 - Black 2 - White 3 - Almond 4 - Grey 5 - Orange 7 - Blue 8 - Green 9 - Red	0 - None 1 - Black 2 - White 8 - Red	0 - None 1 - Power Symbol Vert. 3 - Reset Symbol Vert. 5 - POWER Vert. 7 - RESET Vert.	1 - Full	0 - Clear 1 - Red 2 - Amber 3 - Green 4 - Blue	3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V

Accessories Series Type Options



ACC

Type



PVC Cap and Frame:
F03

Options



Colors for Frame:
1 - Black
2 - White

Custom Colors and Markings Available Upon Request

For Illuminated Switches Only

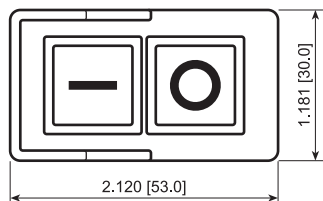
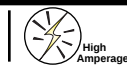
EXAMPLE PART NUMBERS:

PR141C1100 1P Off-On
Black Body/Actuator, No Marking

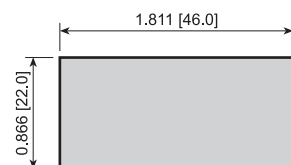
PR141C1900 1P Off-On
Black Body, Red Actuator, No Marking

PR144C1900 1P Off-(On)
Black Body, Red Actuator, No Marking

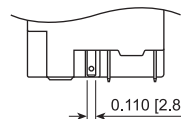
KJD17 Series



Panel Cutout

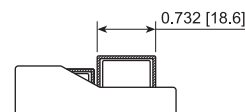


Function Options

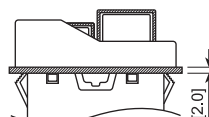


Remote Trip

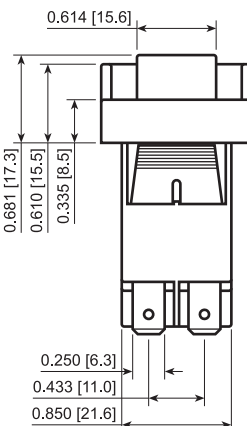
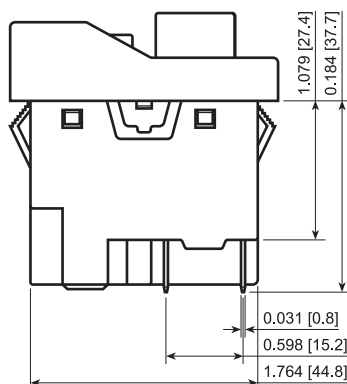
Water Protection Options



PVC Cap



PVC Cap & Gasket



FEATURES:

- Heavy Duty Industrial Design
- Electromagnet Provides Automatic Safety Protection Against Power Outages and Restarts
- PVC Cap for Dust and Water Protection

SPECIFICATIONS:

RATING: 16A 120VAC [cURus UL508]
16A 220/240VAC [cURus UL508]
1/2 HP 120VAC [cURus UL508]
2HP 220/240VAC [cURus UL508]

TEMPERATURE: -25°C to 55°C

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

INGRESS PROTECTION: IP54 with PVC Cap

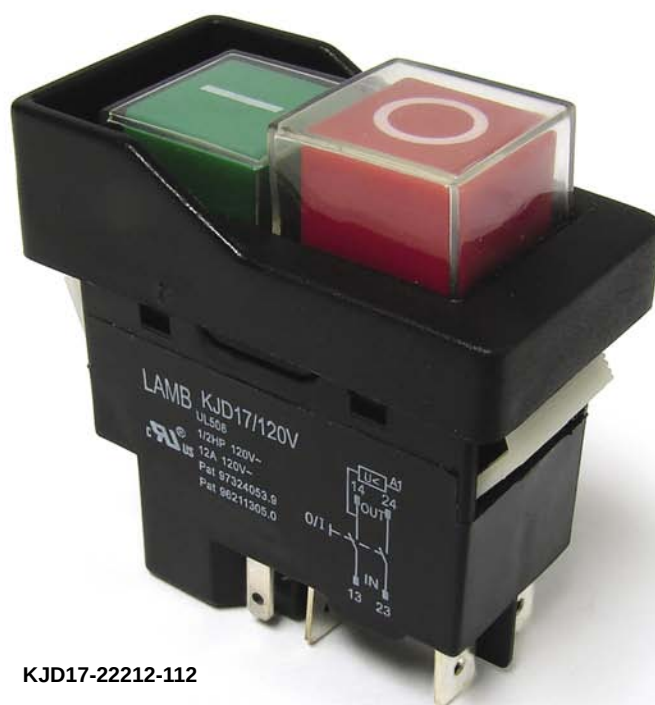
MATERIALS:

BODY: Polyamide 6/6

ACTUATOR: Polyamide 6/6

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Brass



KJD17-22212-112

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Actuation Guard	Function	Voltage and Frequency	Marking Style	Water Protection	Bezel Color	Actuator Color	Marking Color
KJD17	2 - Guarded	1 - Off-On 2 - Off-On w/ Remote Trip 3 - NO+NC w/ Remote Trip	1 - 120V~/50Hz 2 - 120V~/60Hz 3 - 230V~/50Hz 4 - 230V~/60Hz 5 - 240V~/50Hz 6 - 240V~/60Hz	0 - None 1 - I/O Vert. 2 - I/O Horiz. 3 - O Only	1 - None 2 - PVC Cover 3 - PVC Cover and Rubber Gasket	1 - Black 6 - Yellow	1 - Red/Green	1 - Black 2 - White

EXAMPLE PART NUMBERS:

KJD17-21213-112 2P1T Off-On
120V 60Hz., PVC Cap, I/O Vert.

KJD17-22213-112 2P1T Off-On
120V 60Hz., Remote Trip, PVC Cap, I/O Vert.



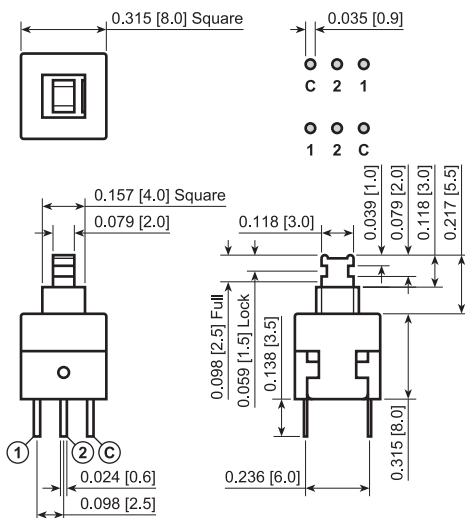
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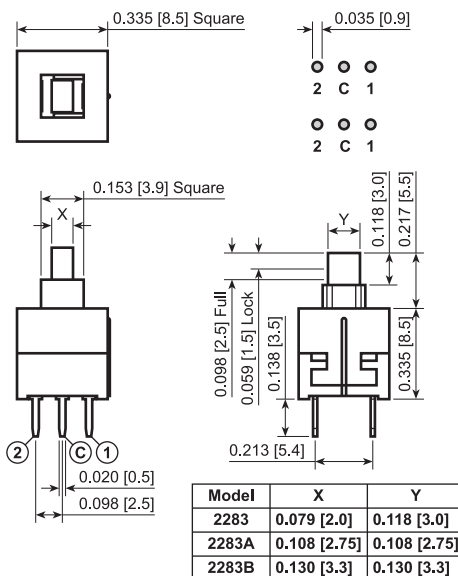
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LHPS2285-SERIES



LHPS2283-SERIES



FEATURES:

- Industry Standard Pushbutton Switch
- Small, Medium, and Large Body Sizes

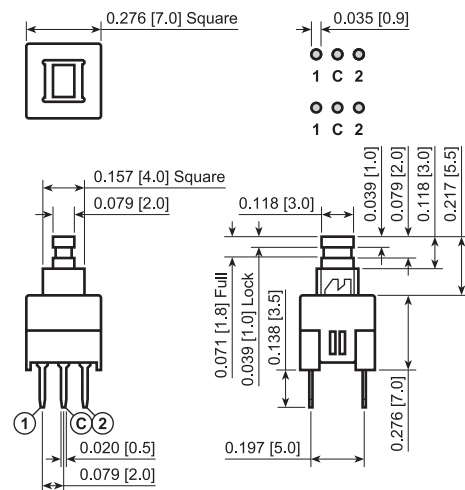
SPECIFICATIONS:

RATING: 100mA 30VDC
TEMPERATURE: -20°C to 70°C
ELECTRICAL LIFE: 10,000 Cycles
CONTACT RESISTANCE: 30mΩ Max. at 1A 5VDC
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 500VAC for 1 Minute
OPERATION FORCE: Models 2285 and 2283: 180±50gf
 Models 2273 and 2266: 140±50gf

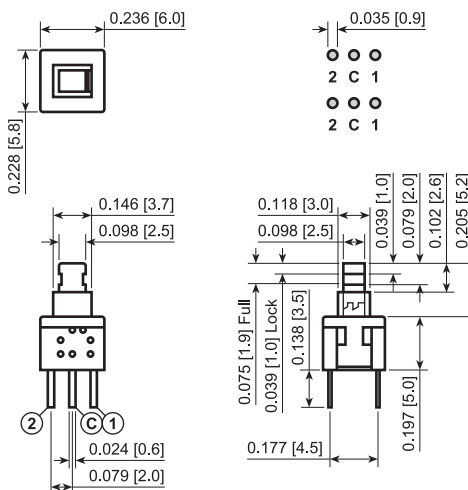
MATERIALS:

BASE: Nylon
COVER: Nylon
ACTUATOR: Acetal
CONTACTS: Silver Plated Phosphor Bronze
TERMINALS: Silver Plated Phosphor Bronze

LHPS2273-SERIES



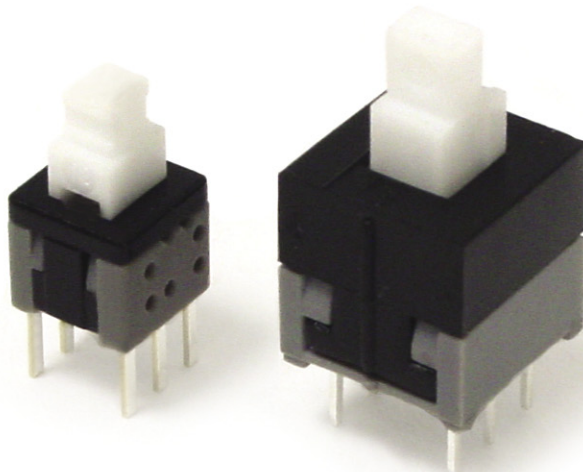
LHPS2266-SERIES



LHPS2285



LHPS2273



LHPS2266

LHPS2283

Series

Model

Function

LHPS

2285 - 8.0mm Square
 2283 - 8.5mm Square, 2.0mm x 3.0mm Actuator
 2283A - 8.5mm Square, 2.75mm x 2.75mm Actuator
 2283B - 8.5mm Square, 3.3mm x 3.3mm Actuator
 2273 - 7.0mm Square
 2266 - 5.8mm x 6.0mm

None - On-On
 N - On-(On), Silent
 NN - On-(On), w/ Click

EXAMPLE PART NUMBERS:

LHPS2266 2P On-On
 5.8mm x 6.0mm Body

LHPS2273 2P On-On
 7.0mm Square Body

LHPS2283 2P On-On
 8.5mm Square Body, 2.0mm x 3.0mm Act.

LHPS2285 2P On-On
 8.0mm Square Body

PV1 Series



Water Protection



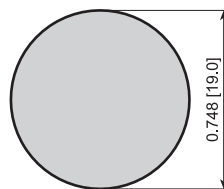
Heavy Duty



Front Panel Mount

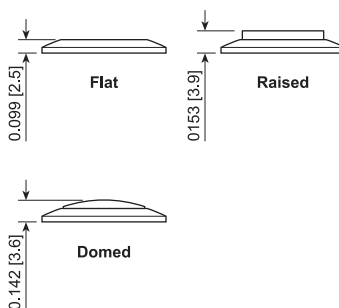
RoHS

Suggested Panel Cutout

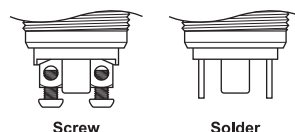


Maximum Panel Thickness: 0.315 [8.0]

Actuator Options



Terminal Options



FEATURES:

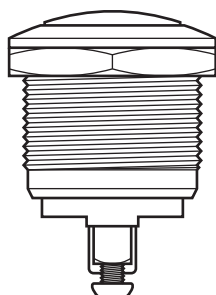
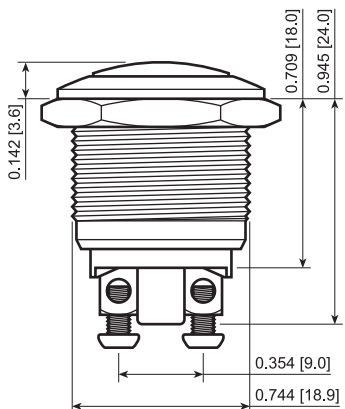
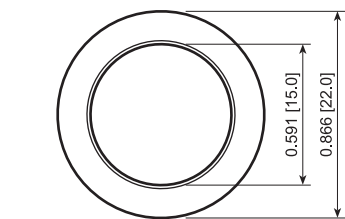
- Vandal and Water Resistant
- Long Life Expectancy
- Custom Laser Engraved Markings

SPECIFICATIONS:

RATING: 2A 48VDC
TEMPERATURE: -20°C to 70°C
ELECTRICAL LIFE: 200,000 Cycles
CONTACT RESISTANCE: 50mΩ Max. at 1A 12VDC
INSULATION RESISTANCE: 1,000MΩ Min.
DIELECTRIC STRENGTH: 2,000VAC for 1 Minute
INTRUSION PROTECTION: IP65

MATERIALS:

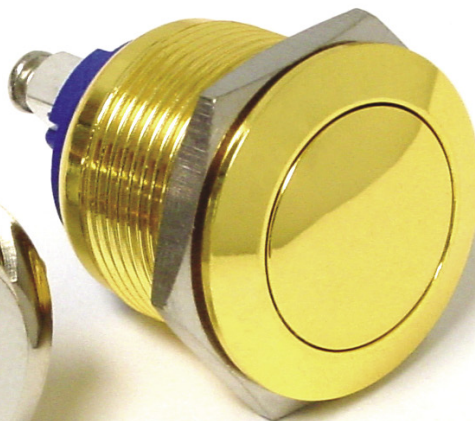
BUSHING: Gold Plated Brass
 Nickel Plated Brass
 Stainless Steel
ACTUATOR: Gold Plated Brass
 Nickel Plated Brass
 Stainless Steel
BASE: Polybutylene Terephthalate, UL94 V-2
SEALING: Silicone
 Stainless Steel
INNER ASSEMBLY: Polyamide 6/6
 Brass
SPRING: Steel
CONTACT: Silver Plated Brass
TERMINALS: Silver Plated Brass
 Steel
HARDWARE: Nickel Plated Brass



PV1H640NN



PV1F640SS



PV1S640GG



PV1H640SS

EXAMPLE PART NUMBERS:

PV1F640GG 1P Off-(On)
 Flat Actuator, Gold Plated Finish
PV1F640NN 1P Off-(On)
 Flat Actuator, Nickel Plated Finish
PV1F640SS 1P Off-(On)
 Flat Actuator, Stainless Steel Body
PV1H640GG 1P Off-(On)
 High Actuator, Gold Plated Finish
PV1H640NN 1P Off-(On)
 High Actuator, Nickel Plated Finish
PV1H640SS 1P Off-(On)
 High Actuator, Stainless Steel Body
PV1S640GG 1P Off-(On)
 Domed Actuator, Gold Plated Finish
PV1S640NN 1P Off-(On)
 Domed Actuator, Nickel Plated Finish
PV1S640SS 1P Off-(On)
 Domed Actuator, Stainless Steel Body

Series	Actuator Options	Terminal	Function	Rating	Body Finish	Actuator Finish	Contact Material	Marking Options
PV1	F - Flat H - High S - Domed	2 - Solder 6 - Screw	1 Pole: 4 - Off-(On)	0 - 2A 48VDC	G - Gold N - Nickel S - Polished Stainless Steel B - Brushed Stainless Steel	G - Gold N - Nickel S - Polished Stainless Steel B - Brushed Stainless Steel	None - Silver G - Gold	None - No Marking M01 - Power Symbol Custom Markings Available

Notes:
 Additional material options available upon request. Please ask your salesperson.



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ANTI-VANDAL

PV2 Series



Water Protection

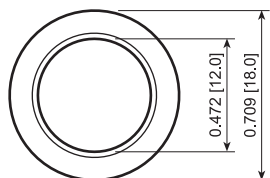


Heavy Duty

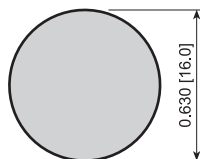


Front Panel Mount

RoHS



Suggested Panel Cutout



Maximum Panel Thickness: 0.236 [6.0]

FEATURES:

- Vandal Resistant
- Water Resistant
- Long Life Expectancy

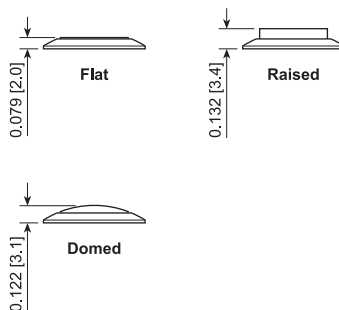
SPECIFICATIONS:

RATING: 2A 48VDC
TEMPERATURE: -20°C to 70°C
ELECTRICAL LIFE: 200,000 Cycles
CONTACT RESISTANCE: 50mΩ Max. at 1A 12VDC
INSULATION RESISTANCE: 1,000MΩ Min.
DIELECTRIC STRENGTH: 2,000VAC for 1 Minute
INGRESS PROTECTION: IP65

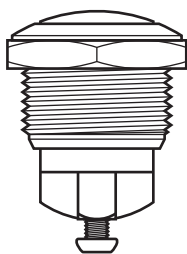
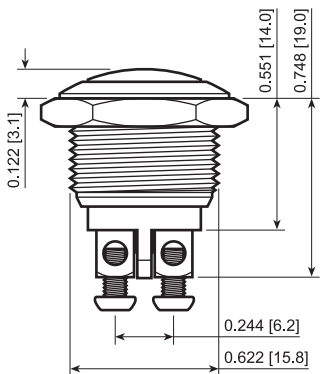
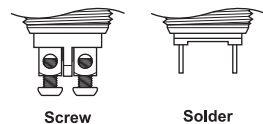
MATERIALS:

BUSHING: Gold Plated Brass
 Nickel Plated Brass
 Stainless Steel
ACTUATOR: Gold Plated Brass
 Nickel Plated Brass
 Stainless Steel
BASE: Polybutylene Terephthalate, UL94 V-2
SEALING: Silicone
INNER ASSEMBLY: Polyamide 6/6
 Brass
SPRING: Stainless Steel
CONTACT: Silver Plated Brass
TERMINALS: Silver Plated Brass
 Steel
HARDWARE: Nickel Plated Brass

Actuator Options



Terminal Options



PV2F640SS



PV2H640SS



PV2S640GG



PV2S640NN

Series	Actuator Options	Terminal	Function	Rating	Body Finish	Actuator Finish	Contact Material	Marking Options
PV2	F - Flat H - High S - Domed	2 - Solder 6 - Screw	1 Pole: 4 - Off-(On)	0 - 2A 48VDC	G - Gold N - Nickel S - Polished Stainless Steel B - Brushed Stainless Steel	G - Gold N - Nickel S - Polished Stainless Steel B - Brushed Stainless Steel	None - Silver G - Gold	None - No Marking M01 - Power Symbol

Notes:
 Additional material options available upon request. Please ask your salesperson.



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

EXAMPLE PART NUMBERS:

PV2F640GG 1P Off-(On)
 Flat Actuator, Gold Plated Finish
 PV2F640NN 1P Off-(On)
 Flat Actuator, Nickel Plated Finish
 PV2F640SS 1P Off-(On)
 Flat Actuator, Stainless Steel Body
 PV2H640GG 1P Off-(On)
 High Actuator, Gold Plated Finish
 PV2H640NN 1P Off-(On)
 High Actuator, Nickel Plated Finish
 PV2H640SS 1P Off-(On)
 High Actuator, Stainless Steel Body
 PV2S640GG 1P Off-(On)
 Domed Actuator, Gold Plated Finish
 PV2S640NN 1P Off-(On)
 Domed Actuator, Nickel Plated Finish
 PV2S640SS 1P Off-(On)
 Domed Actuator, Stainless Steel Body

PV3 Series



Illuminated



Water Protection



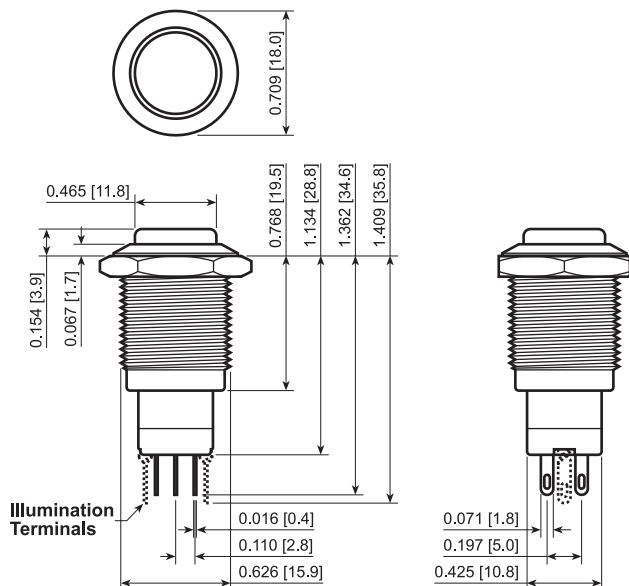
Heavy Duty



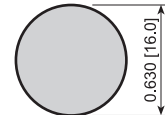
Front Panel Mount

RoHS

Long Body Version

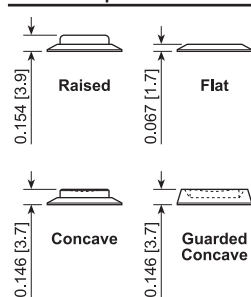


Suggested Panel Cutout

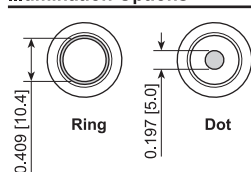


Maximum Panel Thickness:
Long Body: 0.551 [14.0]
Short Body: 0.394 [10.0]

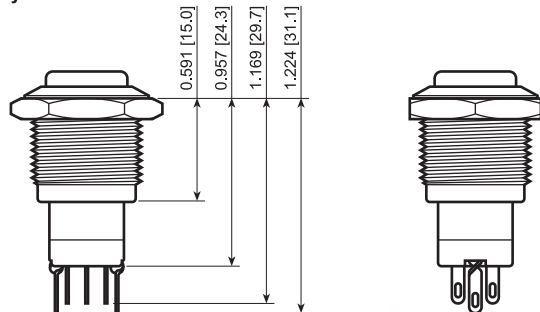
Actuator Options



Illumination Options



Short Body Version



PV3H2G0NN-344

PV3H2B0NN

Series	Actuator Options	Terminal	Function	Rating	Body Finish	Actuator Finish	Contact Material	Lens Style	Lens Color	Illumination Voltage
Non-Waterproof Versions: PV3 - Long Body PV3S - Short Body (*)	F - Flat H - High C - Concave G - Guarded Concave	2 - Solder	1 Pole: 3 - On-On B - On-(On)	0 - 2A 48VDC	1 - Black G - Gold N - Nickel B - Brushed Stainless S - Polished Stainless	1 - Black 2 - White 7 - Blue 8 - Green 9 - Red G - Gold N - Nickel B - Brushed Stainless S - Polished Stainless	None - Silver G - Gold	2 - Dot 3 - Ring	0 - White 1 - Red 2 - Orange 3 - Green 4 - Blue 5 - Yellow	1 - Base Voltage 3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V
Waterproof Versions: PV3W - Long Body PV3SW - Short Body (*)			2 Pole: G - On-On H - On-(On)							

Notes:
* = Not available with illumination options.
Additional material, illumination, and marking options are available. Please ask your sales person.

FEATURES:

- Vandal and Water Resistant
- Many Function, Illumination, and Materials
- Long Life Expectancy

SPECIFICATIONS:

RATING: 2A 48VDC
ILLUMINATION BASE RATING:
Red, Yellow, and Orange: 20mA 1.8V
Blue, Green, and White: 20mA 2.8V
TEMPERATURE: -20°C to 70°C
ELECTRICAL LIFE: 50,000 Cycles
CONTACT RESISTANCE: 50mΩ Max. at 1A 12VDC
INSULATION RESISTANCE: 1,000MΩ Min.
DIELECTRIC STRENGTH: 2,000VAC for 1 Minute
INGRESS PROTECTION: IP40 / IP67

MATERIALS:

BUSHING: Gold Plated Brass
Nickel Plated Brass
Stainless Steel
Aluminum
ACTUATOR: Gold Plated Brass
Nickel Plated Brass
Stainless Steel
Aluminum
BASE: Polybutylene Terephthalate, UL94 V-2
Polycarbonate, UL94 V-2
INNER ASSEMBLY: Polyoxymethylene, UL94 HB
Polycarbonate, UL94 V-2
Brass
SPRING: Phosphor Bronze
MOBILE CONTACT: Phosphor Bronze
CONTACT: Nickel-Silver
TERMINALS: Silver Plated Brass
HARDWARE: Nickel Plated Brass

EXAMPLE PART NUMBERS:

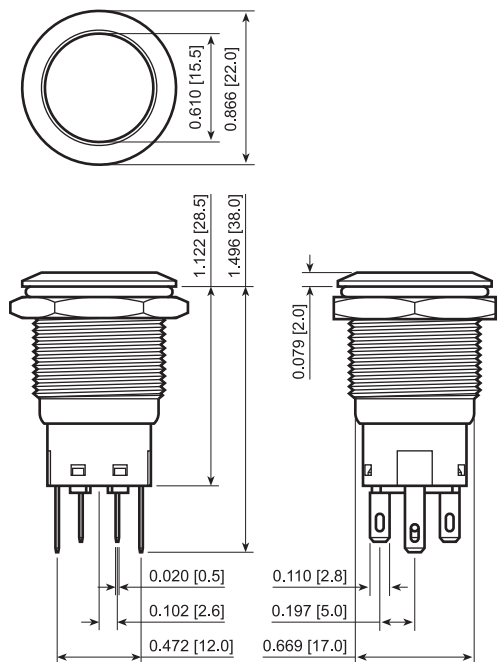
PV3F230NN	1P On-On	Flat Actuator, Nickel Plated Finish
PV3F230SS	1P On-On	Flat Actuator, Stainless Steel Body
PV3F2B0NN	1P On-(On)	Flat Actuator, Nickel Plated Finish
PV3F2B0SS	1P On-(On)	Flat Actuator, Stainless Steel Body
PV3F2G0NN	2P On-On	Flat Actuator, Nickel Plated Finish
PV3F2G0NN-214	2P On-On	Flat Actuator, Red Dot Illum., Nickel Plated
PV3F2G0NN-314	2P On-On	Flat Actuator, Red Ring Illum., Nickel Plated
PV3F2G0SS	2P On-On	Flat Actuator, Stainless Steel Body
PV3F2H0NN	2P On-(On)	Flat Actuator, Nickel Plated Finish
PV3F2H0NN-214	2P On-(On)	Flat Actuator, Red Dot Illum., Nickel Plated
PV3F2H0NN-314	2P On-(On)	Flat Actuator, Red Ring Illum., Nickel Plated
PV3F2H0SS	2P On-(On)	Flat Actuator, Stainless Steel Body
PV3H230NN	1P On-On	High Actuator, Nickel Plated Finish
PV3H2B0NN	1P On-(On)	High Actuator, Nickel Plated Finish
PV3H2B0SS	1P On-(On)	High Actuator, Stainless Steel Finish
PV3H2G0NN	2P On-On	High Actuator, Nickel Plated Finish
PV3H2G0NN-214	2P On-On	High Actuator, Red Dot Illum., Nickel Plated
PV3H2G0NN-314	2P On-On	High Actuator, Red Ring Illum., Nickel Plated
PV3H2H0NN	2P On-(On)	High Actuator, Nickel Plated Finish



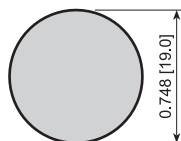
PV4 Series



Double Throw Style

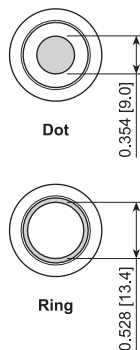


Suggested Panel Cutout



Maximum Panel Thickness: 0.394 [10.0]

Illumination Options



FEATURES:

- Vandal and Water Resistant
- Long Life Expectancy
- Colored Bezel and Actuator Options

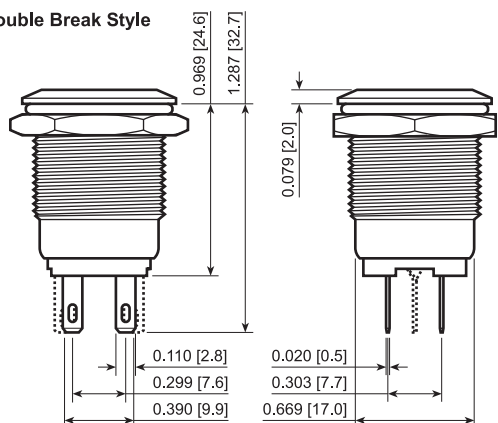
SPECIFICATIONS:

RATING: 2A 24VDC
ILLUMINATION BASE RATING:
 Red, Yellow, and Orange: 20mA 1.8V
 Blue, Green, and White: 20mA 2.8V
TEMPERATURE: -20°C to 70°C
ELECTRICAL LIFE: 50,000 Cycles
CONTACT RESISTANCE: 50mΩ Max. at 1A 12VDC
INSULATION RESISTANCE: 1,000MΩ Min. 500VDC
DIELECTRIC STRENGTH: 2,000VAC for 1 Minute
INTRUSION PROTECTION: IP65

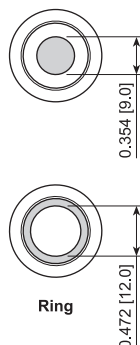
MATERIALS:

BUSHING: Stainless Steel
 Aluminum
ACTUATOR: Stainless Steel
 Aluminum
BASE: Polybutylene Terephthalate, UL94 V-2
SEALING: Silicone
INNER ASSEMBLY: Polyamide 6/6
 Brass
SPRING: Stainless Steel
CONTACT: Silver Plated Brass
TERMINALS: Silver Plated Brass
HARDWARE: Nickel Plated Brass

Double Break Style



Illumination Options



PV4F2Y01S-343



PV4F2Y0SS-244



PV4F2Y0SS-314

PV4F2Y0SS

Series	Actuator Options	Terminal	Function	Rating	Body Finish	Actuator Finish	Contact Material	Lens Style	Lens Color	Illumination Voltage
PV4	F - Flat	2 - Solder 6 - Screw (*)	1 Pole: 3 - On-On B - On-(On)	0 - 2A 48VDC	1 - Black S - Stainless Steel	1 - Black S - Stainless Steel	None - Silver G - Gold	2 - Dot 3 - Ring	0 - White 1 - Red 2 - Orange 3 - Green 4 - Blue 5 - Yellow	1 - Base Voltage 3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V

Notes:
 * = Available with Y function only
 Additional material, illumination and marking options available. Please ask your sales person.

Double Break:
 Y - 1P Off-(On) + 1P On-(Off)

For Illuminated Switches Only

EXAMPLE PART NUMBERS:

PV4F2Y0SS-201 2P Off-(On), On-(Off)
 Stainless Steel Finish, Clear Dot Illum., 2V

PV4F2Y0SS-211 2P Off-(On), On-(Off)
 Stainless Steel Finish, Red Dot Illum., 2V

PV4F2Y0SS-214 2P Off-(On), On-(Off)
 Stainless Steel Finish, Red Dot Illum., 12V

PV4F2Y0SS-216 2P Off-(On), On-(Off)
 Stainless Steel Finish, Red Dot Illum., 125V

PV4F2Y0SS-241 2P Off-(On), On-(Off)
 Stainless Steel Finish, Blue Dot Illum., 2V

PV4F2Y0SS-244 2P Off-(On), On-(Off)
 Stainless Steel Finish, Blue Dot Illum., 12V

PV4F2Y0SS-301 2P Off-(On), On-(Off)
 Stainless Steel Finish, Clear Ring Illum., 2V

PV4F2Y0SS-311 2P Off-(On), On-(Off)
 Stainless Steel Finish, Red Ring Illum., 2V

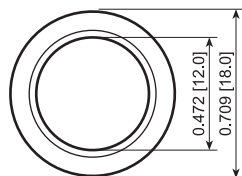
PV4F2Y0SS-314 2P Off-(On), On-(Off)
 Stainless Steel Finish, Red Ring Illum., 12V

PV4F2Y0SS-316 2P Off-(On), On-(Off)
 Stainless Steel Finish, Red Ring Illum., 125V

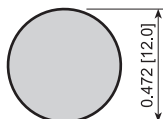
PV4F2Y0SS-341 2P Off-(On), On-(Off)
 Stainless Steel Finish, Blue Ring Illum., 2V

PV4F2Y0SS-344 2P Off-(On), On-(Off)
 Stainless Steel Finish, Blue Ring Illum., 12V



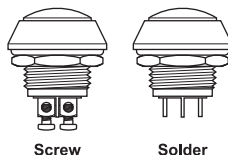


Suggested Panel Cutout



Maximum Panel Thickness: 0.138 [3.5]

Terminal Options



FEATURES:

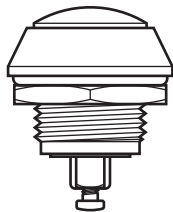
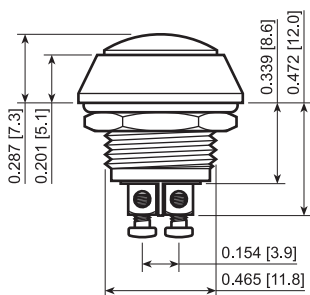
- Vandal Resistant
- Water Resistant
- Long Life Expectancy

SPECIFICATIONS:

RATING: 2A 48VDC
TEMPERATURE: -20°C to 70°C
ELECTRICAL LIFE: 200,000 Cycles
CONTACT RESISTANCE: 50mΩ Max. at 1A 12VDC
INSULATION RESISTANCE: 1,000MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 2,000VAC for 1 Minute
INGRESS PROTECTION: IP65

MATERIALS:

BUSHING: Aluminum
 Nickel Plated Brass
 Stainless Steel
ACTUATOR: Polybutylene Terephthalate, UL94 V-2
 Nickel Plated Brass
 Stainless Steel
BASE: Polybutylene Terephthalate, UL94 V-2
SEALING: Silicone
INNER ASSEMBLY: Polyamide 6/6
 Brass
SPRING: Steel
CONTACT: Silver Plated Brass
TERMINALS: Silver Plated Brass
 Steel
HARDWARE: Brass



PV5S640SS



PV5S64012



PV5S64017
PV5S64018

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Actuator Options	Terminal	Function	Rating	Body Color	Actuator Color	Contact Material
PV5	S - Domed	2 - Solder 6 - Screw	4 - Off-(On)	0 - 2A 48VDC	1 - Black N - Nickel S - Stainless Steel	1 - Black 2 - White 6 - Yellow 7 - Blue 8 - Green 9 - Red N - Nickel S - Stainless Steel	None - Silver G - Gold

EXAMPLE PART NUMBERS:

PV5S64011	1P Off-(On) Domed Black Actuator, Silver Contacts
PV5S64012	1P Off-(On) Domed White Actuator, Silver Contacts
PV5S64012G	1P Off-(On) Domed White Actuator, Gold Contacts
PV5S64016	1P Off-(On) Domed Yellow Actuator, Silver Contacts
PV5S64017	1P Off-(On) Domed Blue Actuator, Silver Contacts
PV5S64018	1P Off-(On) Domed Green Actuator, Silver Contacts
PV5S64019	1P Off-(On) Domed Red Actuator, Silver Contacts
PV5S64019G	1P Off-(On) Domed Red Actuator, Gold Contacts

PV6 Series



Illuminated



Water Protection



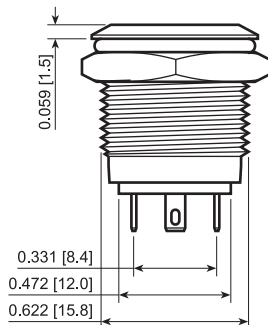
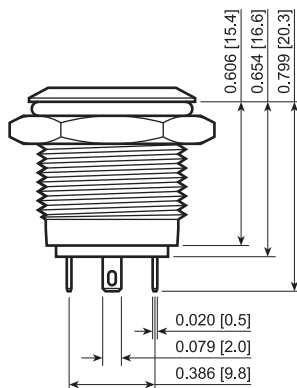
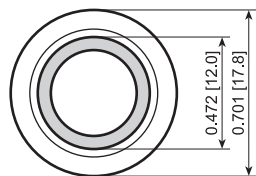
Heavy Duty



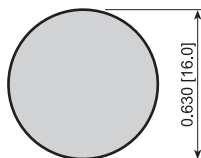
Front Panel Mount

RoHS

NEW

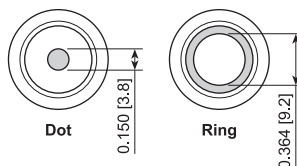


Suggested Panel Cutout



Maximum Panel Thickness 0.394 [10.0mm]

Illumination Options



FEATURES:

- Vandal and Water Resistant
- Long Life Expectancy

SPECIFICATIONS:

RATING: 2A 48VDC
ILLUMINATION BASE RATING:
 Red, Yellow, and Orange: 20mA 1.8V
 Blue, Green, and White: 20mA 2.8V
TEMPERATURE: -20°C to 70°C
CONTACT RESISTANCE: 50mΩ Max.
INSULATION RESISTANCE: 1,000MΩ Min.
DIELECTRIC STRENGTH: 2,000VAC
MECHANICAL LIFE: 1,000,000 Cycles
ELECTRICAL LIFE: 50,000 Cycles

MATERIALS:

Button: Stainless Steel
 Nickel Plated Brass
Body: Stainless Steel
 Nickel Plated Brass
Base: PBT



PV6F240SS-341

Series	Actuator Options	Terminal	Function	Rating	Body Finish	Actuator Finish	Contact Material	Lens Style	Lens Color	Illumination Voltage
☐ PV6	☐ F - Flat	☐ 2 - Solder	☐ 4 - Off-(On)	☐ 0 - 2A 48VDC	☐ N - Nickel ☐ S - Stainless Steel	☐ N - Nickel ☐ S - Stainless Steel	☐ None - Silver ☐ G - Gold	☐ 2 - Dot ☐ 3 - Ring	☐ 0 - White ☐ 1 - Red ☐ 2 - Orange ☐ 3 - Green ☐ 4 - Blue ☐ 5 - Yellow	☐ 1 - Base Voltage

Notes:
 This switch may require an external resistor to prevent damage to the LED.
 Additional material, illumination and marking options are available. Please ask your sales person.

EXAMPLE PART NUMBERS:

PV6F240SS-221 1P Off-(On)
 Flat Actuator, Orange Dot Illumination
PV6F240SS-331 1P Off-(On)
 Flat Actuator, Green Ring Illumination
PV6F240SS-341 1P Off-(On)
 Flat Actuator, Blue Ring Illumination



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PV7 Series



Illuminated



Water Protection



Heavy Duty

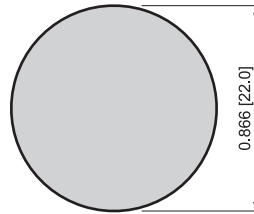


Front Panel Mount

RoHS

NEW

Suggested Panel Cutout



Maximum Panel Thickness:
Momentary Version: 0.315 [8.0mm]
Maintained Version: 0.472 [12.0mm]

FEATURES:

- Vandal and Water Resistant
- Long Life Expectancy

SPECIFICATIONS:

RATING: 2A 48VDC

ILLUMINATION BASE RATING:

Red, Yellow, and Orange: 20mA 1.8V

Blue, Green, and White: 20mA 2.8V

TEMPERATURE: -20°C to 70°C

CONTACT RESISTANCE: 50mΩ Max.

INSULATION RESISTANCE: 1,000MΩ Min.

DIELECTRIC STRENGTH: 2,000VAC

MECHANICAL LIFE: 1,000,000 Cycles

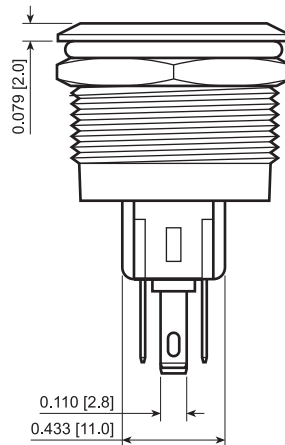
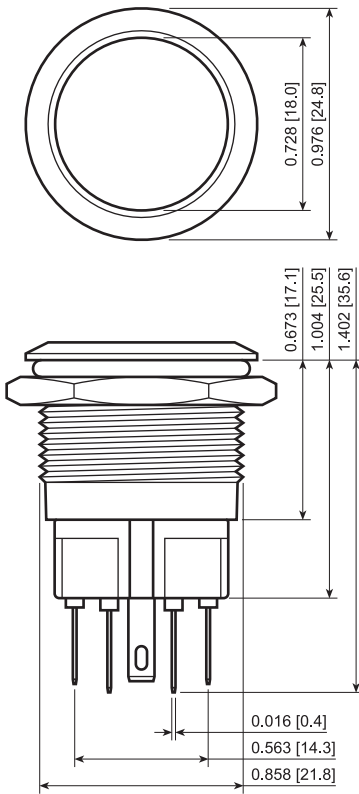
ELECTRICAL LIFE: 50,000 Cycles

MATERIALS:

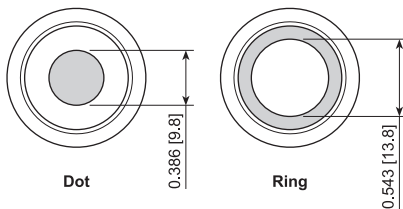
BUTTON: Stainless Steel
Nickel Plated Brass

BODY: Stainless Steel
Nickel Plated Brass

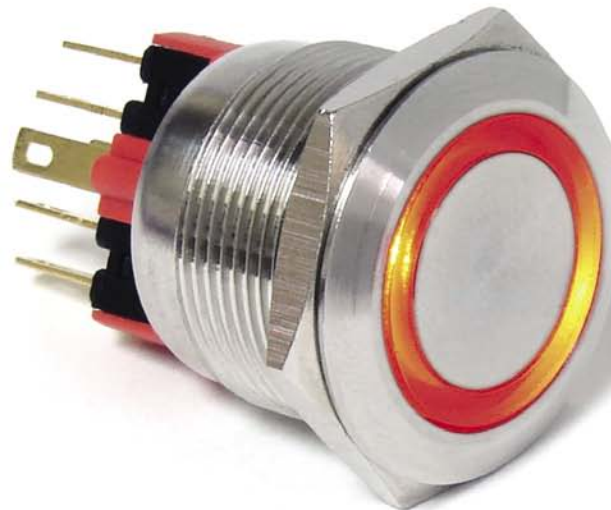
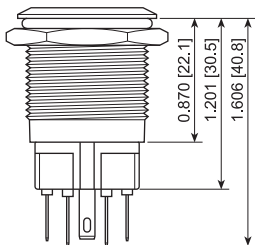
BASE: PBT



Illumination Options



Maintained Version Dimensions



PV7F2Y0SS-311

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Actuator Options	Terminal	Function	Rating	Body Finish	Actuator Finish	Contact Material	Lens Style	Lens Color	Illumination Voltage
PV7	F - Flat	2 - Solder	2 Pole: Y - 1P Off-(On) / 1P On-(Off) T - 1P Off-On / 1P On-Off	0 - 2A 48VDC	N - Nickel S - Stainless Steel	N - Nickel S - Stainless Steel	None - Silver G - Gold	2 - Dot 3 - Ring	0 - White 1 - Red 2 - Orange 3 - Green 4 - Blue 5 - Yellow	1 - Base Voltage 3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V

Notes:
Additional material, illumination and marking options are available. Please ask your sales person.

For Illuminated Switches Only

EXAMPLE PART NUMBERS:

PV7F2T0SS-344 1P Off-On/1P On-Off
Flat Actuator, Blue Ring Illumination, 12V

PV7F2Y0SS 1P Off-(On)/1P On-(Off)
Flat Actuator

PV7F2Y0SS-241 1P Off-(On)/1P On-(Off)
Flat Actuator, Blue Dot Illumination, 2.8V

PV7F2Y0SS-313 1P Off-(On)/1P On-(Off)
Flat Actuator, Red Ring Illumination, 6V

PV7F2Y0SS-351 1P Off-(On)/1P On-(Off)
Flat Actuator, Yellow Ring Illumination, 1.8V



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ANTI-VANDAL

PV8 Series



Illuminated



Water Protection



Heavy Duty

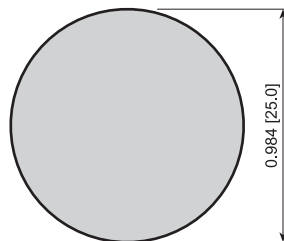


Front Panel Mount

RoHS

NEW

Suggested Panel Cutout



Maximum Panel Thickness
Momentary Version: 0.394 [10.0mm]
Maintained Version: 0.472 [12.0mm]

FEATURES:

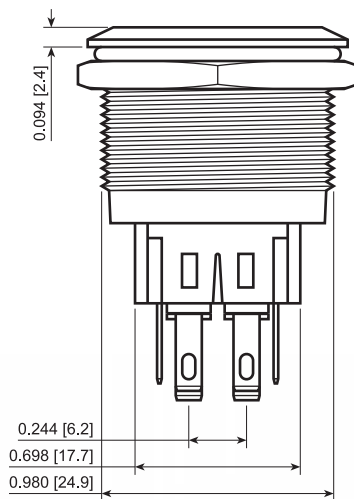
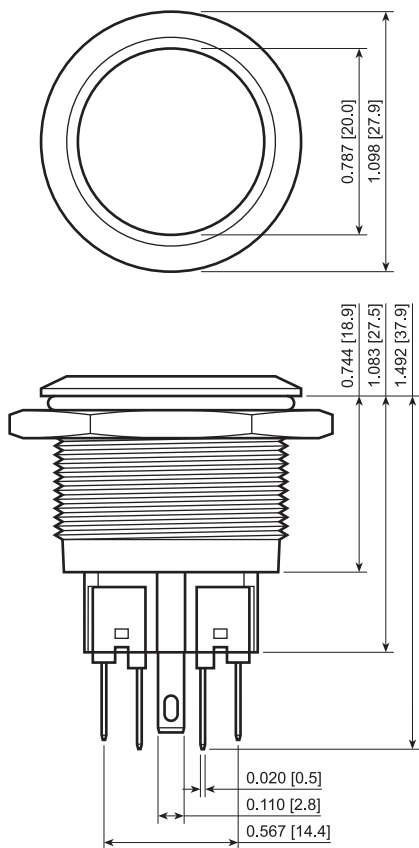
- Vandal and Vandal Resistant
- Long Life Expectancy
- Many Function and Illumination Options

SPECIFICATIONS:

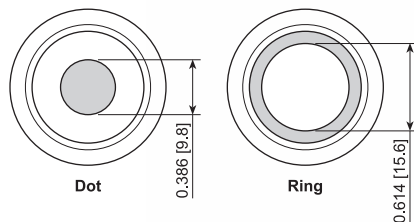
RATING: 2A 36VDC
ILLUMINATION BASE RATING:
Red, Yellow, and Orange: 20mA 1.8V
Blue, Green, and White: 20mA 2.8V
TEMPERATURE: -20°C to 70°C
CONTACT RESISTANCE: 50mΩ Max.
INSULATION RESISTANCE: 1,000MΩ Min.
DIELECTRIC STRENGTH: 2,000VAC
MECHANICAL LIFE: 1,000,000 Cycles
ELECTRICAL LIFE: 50,000 Cycles

MATERIALS:

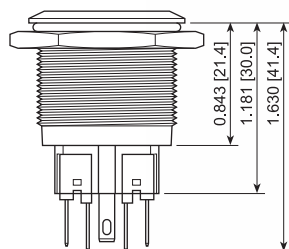
BUTTON: Stainless Steel
Nickel Plated Brass
BODY: Stainless Steel
Nickel Plated Brass
BASE: PBT



Illumination Options



Maintained Version Dimensions



PV8F2V0SS-311

Series	Actuator Options	Terminal	Function	Rating	Body Finish	Actuator Finish	Contact Material	Lens Style	Lens Color	Illumination Voltage
PV8	F - Flat	2 - Solder	2 Pole: Y - 1P Off-(On) / 1P On-(Off) T - 1P Off-On / 1P On-Off	0 - 2A 48VDC	N - Nickel S - Stainless Steel	N - Nickel S - Stainless Steel	None - Silver G - Gold	2 - Dot 3 - Ring	0 - White 1 - Red 2 - Orange 3 - Green 4 - Blue 5 - Yellow	1 - Base Voltage 3 - 6V 4 - 12V 5 - 24V 6 - 125V 7 - 250V

Notes:
Additional material, illumination, and marking options are available. Please ask your sales person.

For Illuminated Switches Only

EXAMPLE PART NUMBERS:

PV8F2U0SS-344 2P Off-(On)/2P On-(Off)
Flat Actuator, Blue Ring Illumination, 12V
PV8F2V0SS-211 2P Off-(On)/2P On-(Off)
Flat Actuator, Red Dot Illumination, 1.8V
PV8F2V0SS-321 2P Off-(On)/2P On-(Off)
Flat Actuator, Orange Ring Illumination, 1.8V
PV8F2Y0SS-235 1P Off-(On)/1P On-(Off)
Flat Actuator, Green Dot Illumination, 24V
PV8F2Y0SS-313 1P Off-(On)/1P On-(Off)
Flat Actuator, Red Ring Illumination, 6V

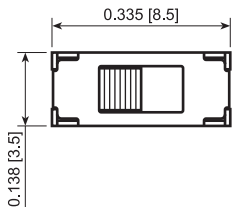


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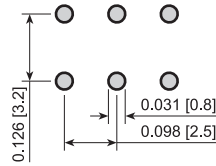
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



Suggested PCB Layout



FEATURES:

- PC Board Mounting
- Various Actuator Lengths
- Vertical and Right Angle Actuators

SPECIFICATIONS:

RATING: 0.2A 30VDC

TEMPERATURE: -20°C to 70°C

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 70mΩ Max.

OPERATING FORCE: 200gf ± 150gf

MATERIALS:

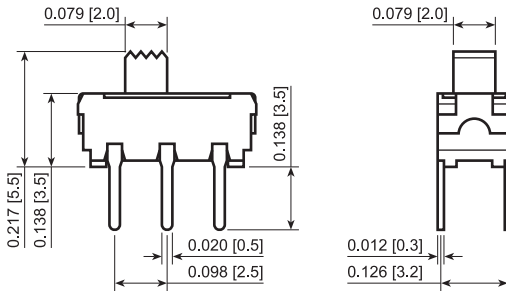
BODY: Polyamide 6/6

ACTUATOR: Polyamide 6/6

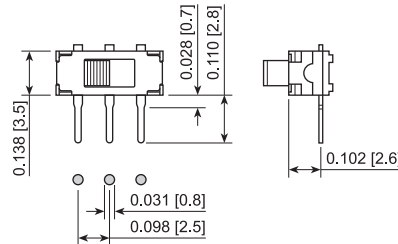
HOUSING: Stainless Steel

CONTACTS: Silver Plated Brass

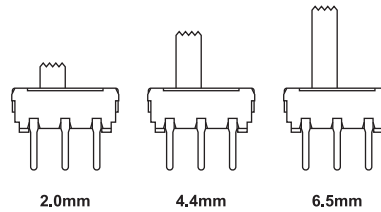
TERMINALS: Silver Plated Brass



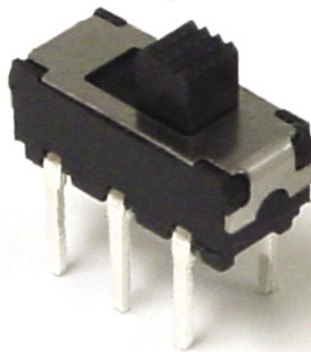
Right Angle Version



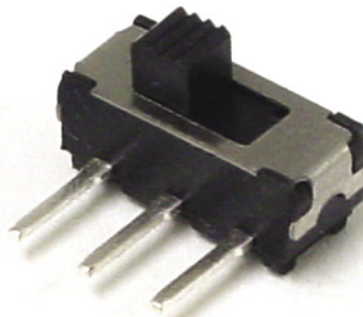
Actuator Options



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



LHSS1104



LHSS1105

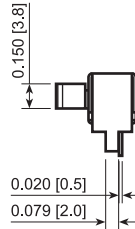
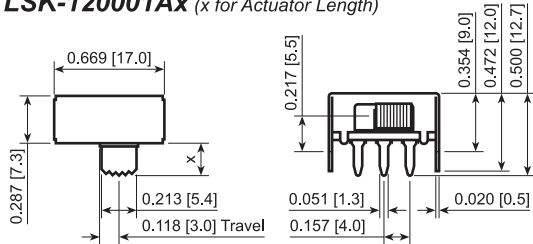
Number of Poles / Model	Actuator Style	Actuator Options

EXAMPLE PART NUMBERS:

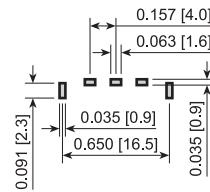
LHSS1104 1P On-On
2.0mm Vertical Actuator

LHSS1105 1P On-On
2.0mm Right Angle Actuator

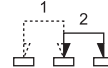
LSK-120001Ax (x for Actuator Length)



Suggested PCB Layout



Electrical Schematic



FEATURES:

- Compact Size With Multiple Functions
- RoHS and Lead Free Compliant
- Customizable Actuator Height

SPECIFICATIONS:

RATING: 0.5A 50VDC

TEMPERATURE: -30°C to 105°C

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 30mΩ Max.

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 500VAC for 1 Minute

MATERIALS:

BODY: Steel

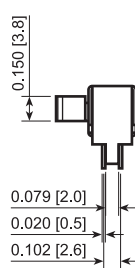
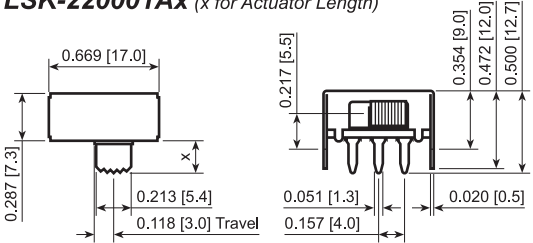
ACTUATOR: Polyoxymethylene

BASE: Phenolic Board

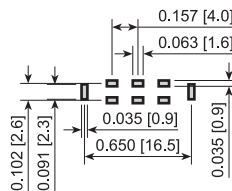
CONTACTS: Silver Plated Copper

TERMINALS: Silver Plated Brass

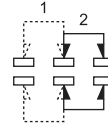
LSK-220001Ax (x for Actuator Length)



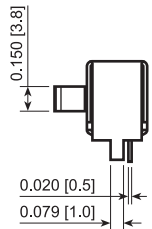
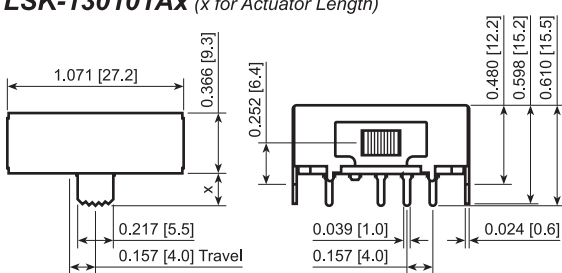
Suggested PCB Layout



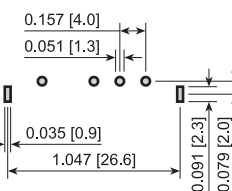
Electrical Schematic



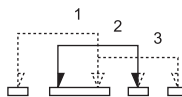
LSK-130101Ax (x for Actuator Length)



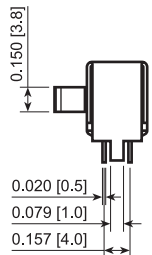
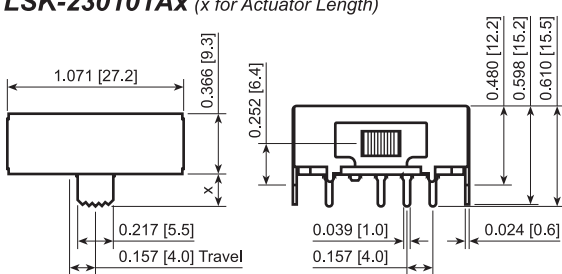
Suggested PCB Layout



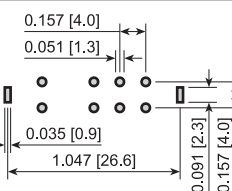
Electrical Schematic



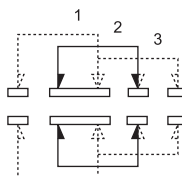
LSK-230101Ax (x for Actuator Length)



Suggested PCB Layout



Electrical Schematic



LSK-220001A7



LSK-230101A7

Series	Number of Poles / Positions	Model	Terminal Type	Actuator Type	Actuator Height
LSK - Side Knob	12 - 1 Pole, On-On 22 - 2 Pole, On-On	000 - 17.0 x 7.3 010 - 27.2 x 9.3	1 - PCB Pin	A - Rounded Ridged	5 - 5mm (Standard) X - Varies From 2 to 20
	For Model 01: 13 - 1 Pole, On-On-On 23 - 2 Pole, On-On-On				

EXAMPLE PART NUMBERS:

LSK-120001A5 1P2T On-On
Model 000, PCB Pins, 5.0mm Actuator

LSK-130101A5 1P3T On-On-On
Model 010, PCB Pins, 5.0mm Actuator

LSK-220001A5 2P2T On-On
Model 000, PCB Pins, 5.0mm Actuator

LSK-230101A5 2P3T On-On-On
Model 010, PCB Pins, 5.0mm Actuator

LSS, LSK Series



Front
Panel Mount



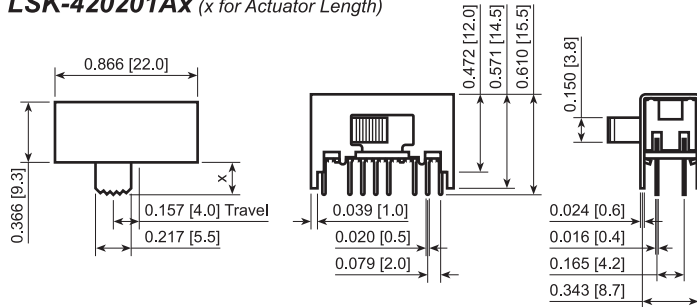
Standard
PCB Mount



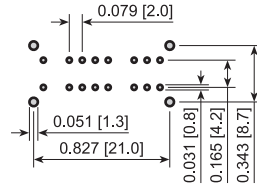
Right Angle
PCB Mount



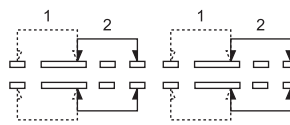
LSK-420201Ax (x for Actuator Length)



Suggested PCB Layout



Electrical Schematic



FEATURES:

- Compact Size, Multiple Functions
- RoHS and Lead-Free Compliant
- Customizable Actuator Height

SPECIFICATIONS:

RATING: 0.5A 50VDC

TEMPERATURE: -30°C to 105°C

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 30mΩ Max.

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 500VAC for 1 Minute

MATERIALS:

Body: Steel

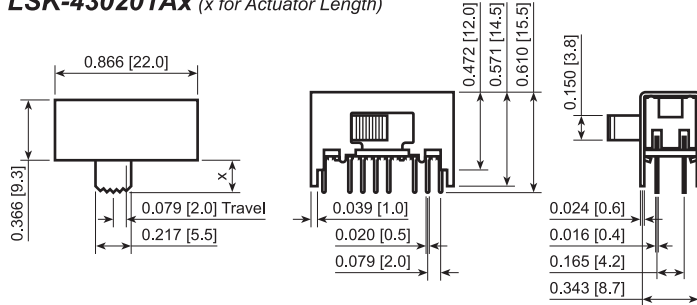
ACTUATOR: Polyoxymethylene

Base: Phenolic Board

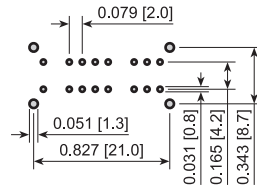
CONTACTS: Silver Plated Copper

TERMINALS: Silver Plated Brass

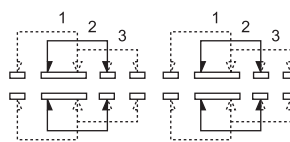
LSK-430201Ax (x for Actuator Length)



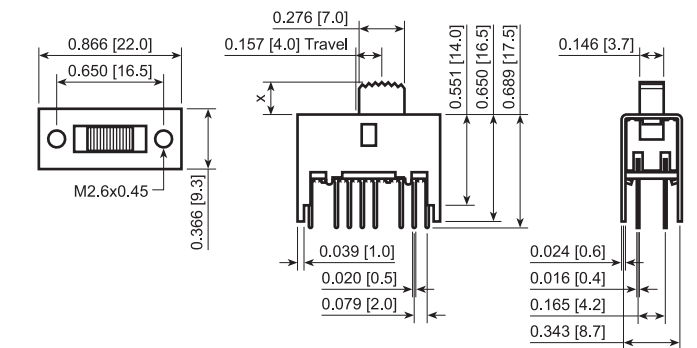
Suggested PCB Layout



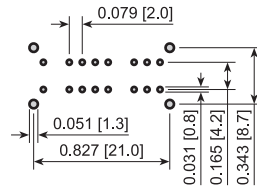
Electrical Schematic



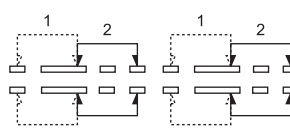
LSS-420101Ax (x for Actuator Length)



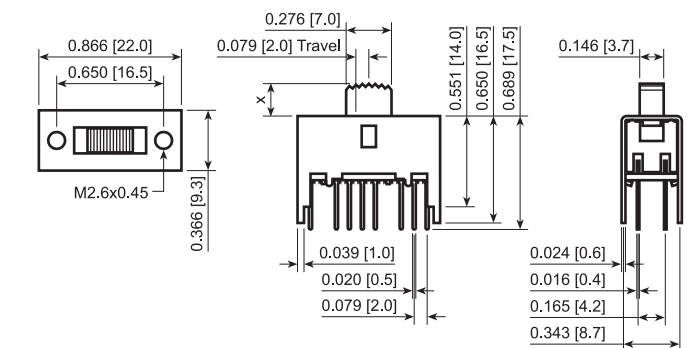
Suggested PCB Layout



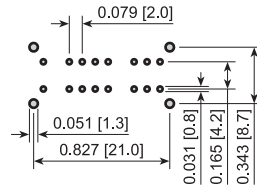
Electrical Schematic



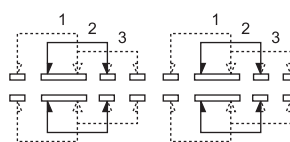
LSS-430101Ax (x for Actuator Length)



Suggested PCB Layout



Electrical Schematic



LSS-430101A4



LSK-420201A7

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Number of Poles / Positions	Model	Terminal Type	Actuator Type	Actuator Height
LSK - Side Knob LSS - Vertical Knob	42 - 4 Pole, On-On 43 - 4 Pole, On-On-On	For LSK Series: 020 - 22.0 x 9.3 For LSS Series: 010 - 22.0 x 9.3	1 - PCB Pin	A - Rounded Ridged	5 - 5mm (Standard) X - Varies From 2 to 20

EXAMPLE PART NUMBERS:

LSK-420201A5 4P2T On-On
Model 020, PCB Pins, 5.0mm Side Actuator

LSK-430201A5 4P3T On-On-On
Model 020, PCB Pins, 5.0mm Side Actuator

LSS-420101A5 4P2T On-On
Model 010, PCB Pins, 5.0mm Vert. Actuator

LSS-430101A5 4P3T On-On-On
Model 010, PCB Pins, 5.0mm Vert. Actuator





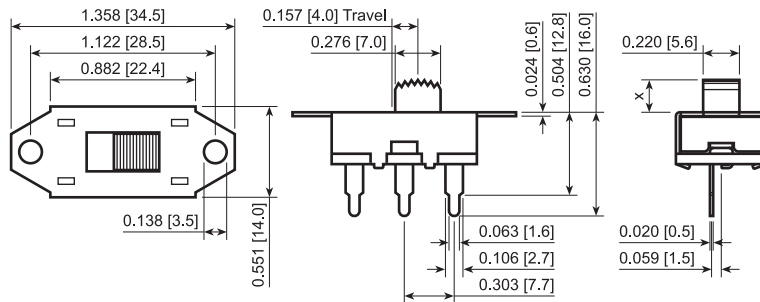
Front
Panel Mount



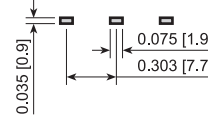
Standard
PCB Mount



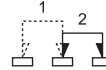
LSU11-120001Ax (x for Actuator Length)



Suggested PCB Layout



Electrical Schematic



FEATURES:

- PC Board and Solder Terminal Options
- RoHS and Lead-Free Compliant
- Customizable Actuator Height

SPECIFICATIONS:

RATING: 11A 125VAC
5.5A 250VAC

ELECTRICAL LIFE: 10,000 Cycles

CONTACT RESISTANCE: 30mΩ Max.

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 500VAC for 1 Minute

MATERIALS:

Body: Steel

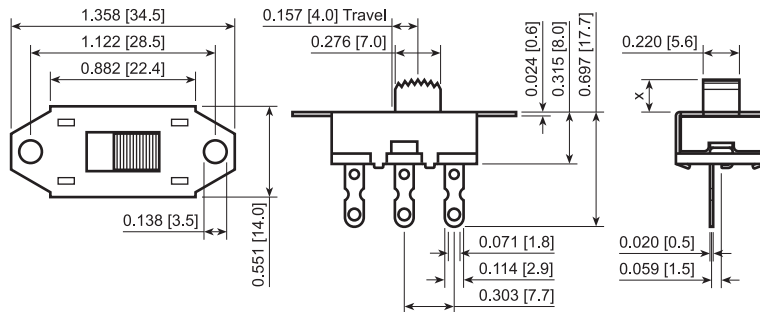
ACTUATOR: Polyphenylene Oxide

Base: Phenolic Board, UL94 V-0

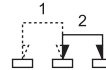
CONTACTS: Silver Alloy

TERMINALS: Silver Plated Copper

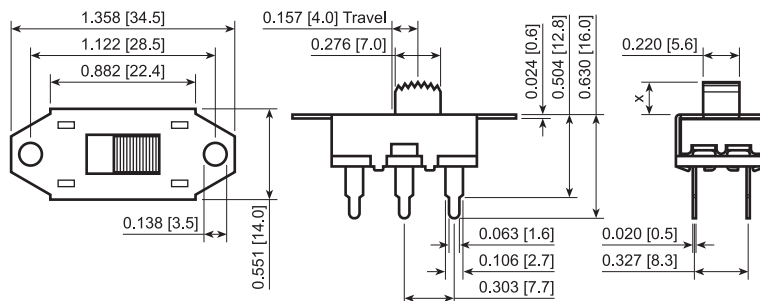
LSU11-120002Ax (x for Actuator Length)



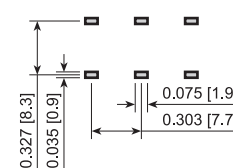
Electrical Schematic



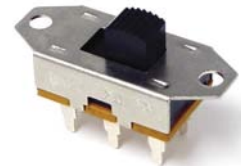
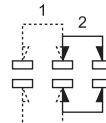
LSU11-220001Ax (x for Actuator Length)



Suggested PCB Layout

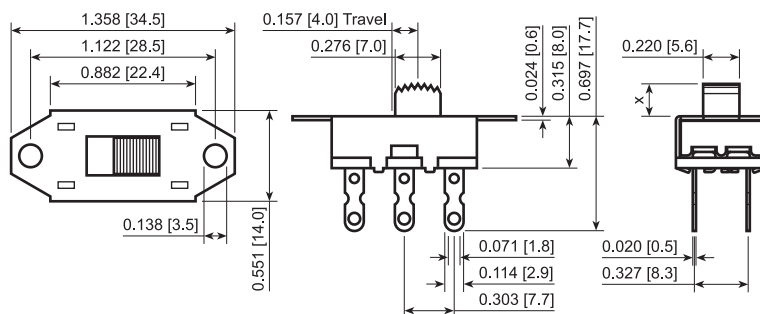


Electrical Schematic

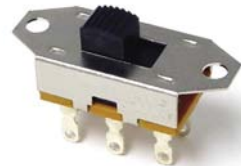
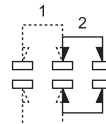


LSU11-220001A7

LSU11-220002Ax (x for Actuator Length)



Electrical Schematic



LSU11-220002A5

Series	Number of Poles / Positions	Model	Terminal Type	Actuator Type	Actuator Height
LSU11 - 11A, Vertical Knob	12 - 1 Pole, On-On 22 - 2 Pole, On-On	000 - 22.4 x 14.0, Unthreaded 001 - 22.4 x 14.0, Threaded	1 - PCB Pin 2 - Solder	A - Rounded Ridged	9 - 9mm (Standard) X - Varies From 2 to 20

EXAMPLE PART NUMBERS:

LSU11-120001A9 1P2T On-On
Model 000, PCB Pins, 9.0mm Actuator

LSU11-120002A9 1P2T On-On
Model 000, Solder, 9.0mm Actuator

LSU11-220001A9 2P2T On-On
Model 000, PCB Pins, 9.0mm Actuator

LSU11-220002A9 2P2T On-On
Model 000, Solder, 9.0mm Actuator



Rear
Panel Mount



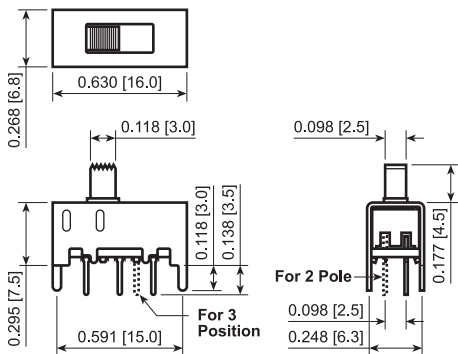
Standard
PCB Mount



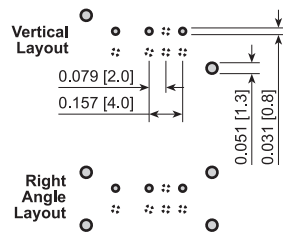
Right Angle
PCB Mount



SLBxx40/41-SERIES



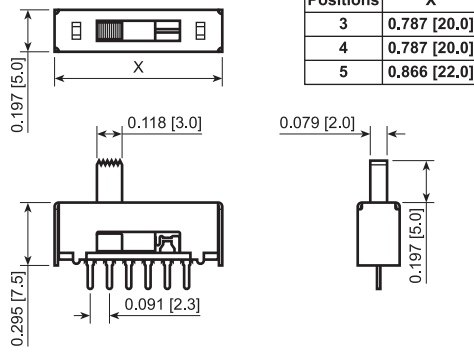
Suggested PCB Layout



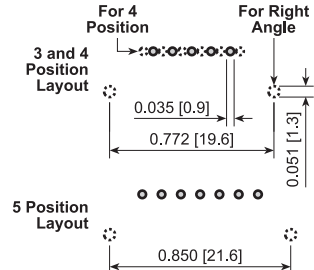
Options



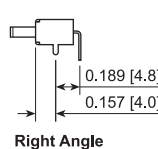
SLB1x70-SERIES



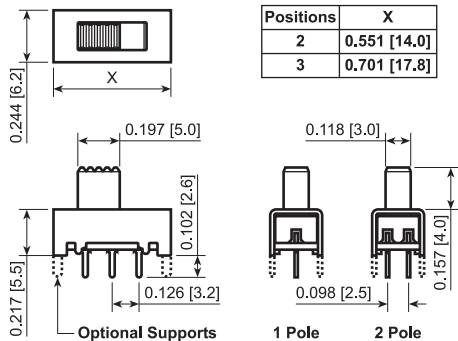
Suggested PCB Layout



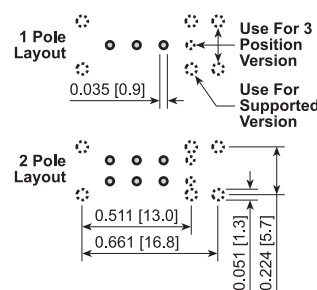
Options



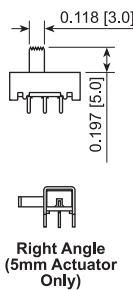
SLBxx80/81-SERIES



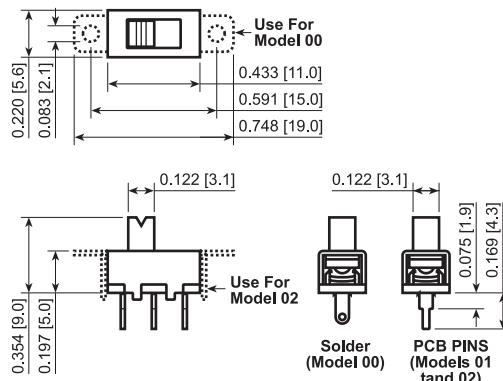
Suggested PCB Layout



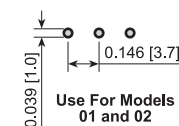
Options



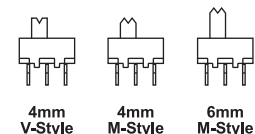
SLG1200/01/02-SERIES



Suggested PCB Layout



Actuator Options



FEATURES:

- Various Body Sizes
- Vertical and Right Angle Actuators

SPECIFICATIONS:

RATING: SLB Series: 0.3A 125VAC
SLG Series: 0.5A 125VAC
ELECTRICAL LIFE: 10,000 Cycles
CONTACT RESISTANCE: 25mΩ Max. at 5VDC
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 500VAC for 1 Minute

MATERIALS:

BASE: PC Board
ACTUATOR: Nylon
HOUSING: Steel
CONTACTS: Silver Plated Copper
TERMINALS: Silver Plated Brass



SLB1340R-4.5
SLB2341-4.5
SLG1201-4V



SLB1470-5
SLB1470R-5



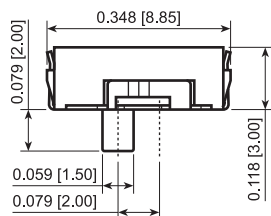
SLB1280-4
SLB2280R

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

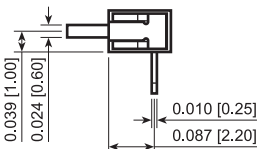
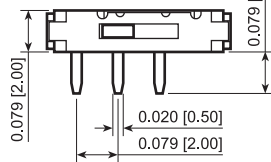
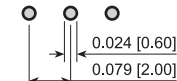
Series	Number of Poles	Number of Positions	Model	Right Angle Options	Actuator Options
SLB SLG	For All: 1 - 1 Pole For SLB Models 40, 41, 80, and 81: 2 - 2 Pole	For SLB Models 40, 41, 80, and 81: 2 - 2 Position 3 - 3 Position For SLB Model 70: 3 - 3 Position 4 - 4 Position 5 - 5 Position For All SLG Models: 2 - 2 Position	For SLB Series: 40 - Common, Right Angle 41 - Common 70 - Common 80 - Sequential, Supported 81 - Sequential For SLG Series: 00 - Solder, Open Body 01 - PCB, Open Body 02 - PCB, Closed Body	For SLB Model 40: R - Right Angle For SLB Models 70, 80, and 81: None - Vertical R - Right Angle For SLB Model 41, and All SLG Models: None - Vertical	For SLB Models 40 and 41: 4.5 - 4.5mm For SLB Model 70: 5 - 5.0mm For SLB Models 80 and 81: 4 - 4.0mm 5 - 5.0mm For All SLG Models: 4V - 4.0mm, V-Style 4M - 4.0mm, M-Style 6M - 6.0mm, M-Style

EXAMPLE PART NUMBERS:

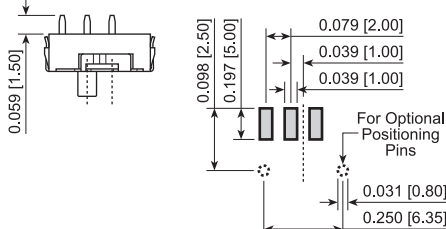
SLB1280-4	1P On-On 4mm Vertical Actuator, Supported
SLB1340R-4.5	1P On-On-On 4.5mm Vertical Actuator, Supported
SLB1470-5	1P On-On-On-On 5.0mm Vertical Actuator
SLB1470R-5	1P On-On-On-On 5.0mm Right Angle Actuator
SLB2280R-5	2P On-On 5.0mm Right Angle Actuator, Supported
SLB2341-4.5	2P On-On-On 4.5mm Vertical Actuator, Supported
SLG1201-4V	2P On-On 4.0mm V-Style Vertical Actuator, Open Body



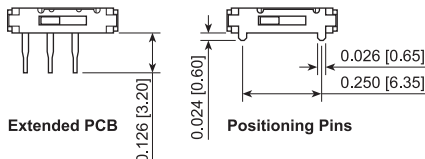
Suggested PCB Layout



Surface Mount Version



Other Options



FEATURES:

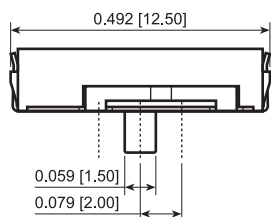
- Sub-Miniature Slide Switch
- Through Hole or SMT Mounting
- Tube or Tape and Reel Packaging

SPECIFICATIONS:

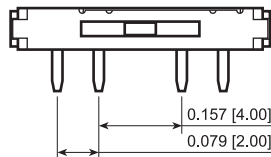
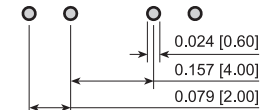
RATING: 25mA 24VDC (Switching)
300mA 4VDC (Non-Switching)
TEMPERATURE: -20°C to 70°C (Operating)
-40°C to 85°C (Storage)
ELECTRICAL LIFE: 10,000 Cycles
CONTACT RESISTANCE: 100mΩ Max.
INSULATION RESISTANCE: 100MΩ Min. 500VDC
DIELECTRIC STRENGTH: 500VAC for 1 Minute

MATERIALS:

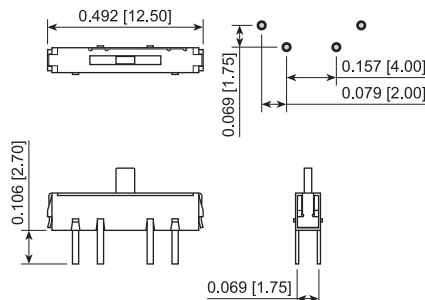
BODY: Liquid Crystal Polymer (LCP), UL94 V-0
ACTUATOR: Liquid Crystal Polymer (LCP)
HOUSING: Stainless Steel
CONTACTS: Copper Alloy
TERMINALS: Brass



Suggested PCB Layout

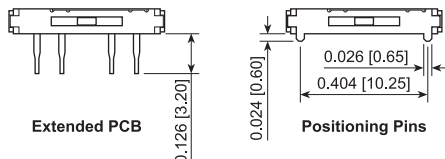


Vertical Mount Version

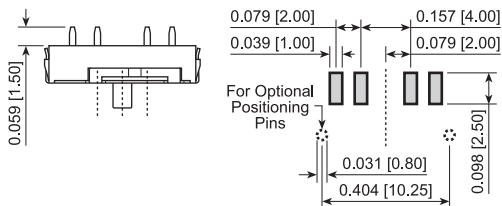


SAM-13P
SA-13MR

Other Options



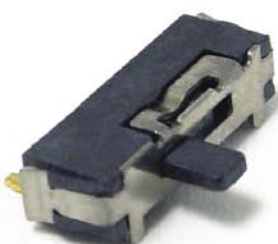
Surface Mount Version



SAE-12



SA-12M



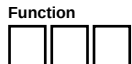
SAM-12P



SAV-13D



SA - Standard Through Hole
SAE - Extended Through Hole
SAM - Surface Mount
SAV - Vertical Through Hole (*)



12 - On-On
12M - On-(On)
12ML - (On)-On
13 - On-On-On
13M - (On)-On-On
13MR - On-On-(On)
13D - (On)-On-(On)



None - 350gf
F - 150gf



None - No Positioning Pins
P - With Positioning Pins (**)

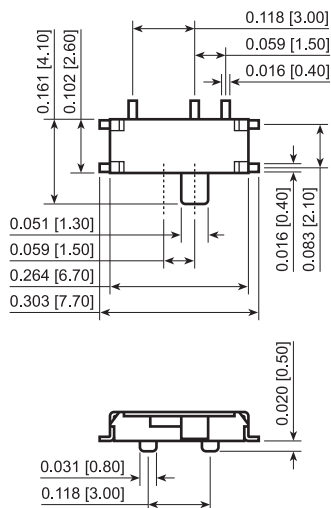


None - Bulk
B - Tube
TR - Tape and Reel (***)

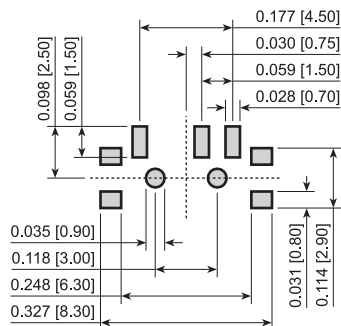
Notes:
* = Available with 3 Position Versions Only.
** = Not Available with Vertical Actuator Versions.
*** = Available with SMT Versions Only.

EXAMPLE PART NUMBERS:

SA-12 1P On-On
Right Angle Through Hole
SA-13 1P On-On
Right Angle Through Hole
SAE-12 1P On-On-On
Right Angle Extended Length Through Hole
SAV-12 1P On-On
Vertical Actuator, Through Hole Mount
SAM-12P 1P On-On
Right Angle Surface Mount, Positioning Pins
SAM-13P 1P On-On
Right Angle Surface Mount, Positioning Pins



Suggested PCB Layout



FEATURES:

- Extremely Compact Design
- Available in up to 4 Throws or 2 Poles
- SMT Mounting
- Tape and Reel Packaging

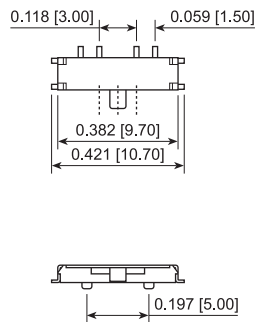
SPECIFICATIONS:

RATING: 25mA 24VDC (Switching)
300mA 4VDC (Non-Switching)
TEMPERATURE: -20°C to 70°C (Operating)
-40°C to 85°C (Storage)
ELECTRICAL LIFE: 10,000 Cycles
CONTACT RESISTANCE: 100mΩ Max.
INSULATION RESISTANCE: 100MΩ Min. 500VDC
DIELECTRIC STRENGTH: 500VAC for 1 Minute

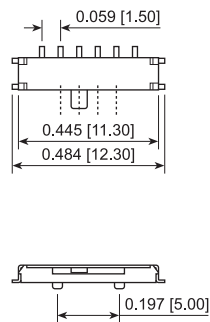
MATERIALS:

BODY: Liquid Crystal Polymer (LCP), UL94 V-0
ACTUATOR: Liquid Crystal Polymer (LCP)
HOUSING: Nickel Silver
CONTACTS: Gold Plated Copper Alloy
TERMINALS: Gold Plated Brass

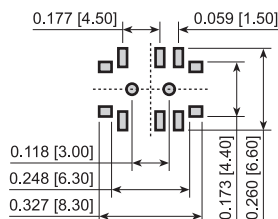
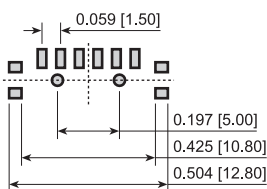
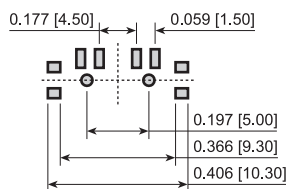
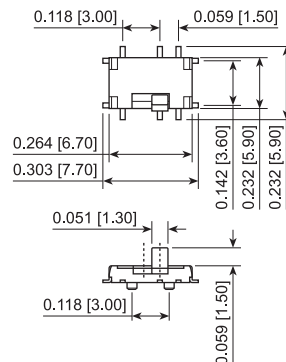
1 Pole 3 Throw Version



1 Pole 4 Throw Version



2 Pole 2 Throw Version



SBVM-22P-TR



SBM-12P-TR



SBM-13P-TR



SBM-14P-TR

Series



SBM - Right Angle Actuator, Surface Mount
SBVM - Vertical Actuator, Surface Mount

Function



For SBM:
12 - 1 Pole, 2 Throw
13 - 1 Pole, 3 Throw
14 - 1 Pole, 4 Throw

For SBVM:
22 - 2 Pole, 2 Throw

Positioning Pins



P - Positioning Pins

Packaging Options



TR - Tape and Reel

EXAMPLE PART NUMBERS:

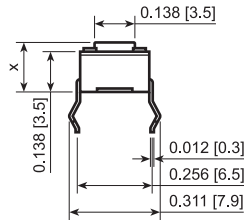
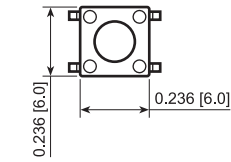
SBM-12P-TR 1P On-On
Flat SMT, Positioning Pins

SBM-13P-TR 1P On-On-On
Flat SMT, Positioning Pins

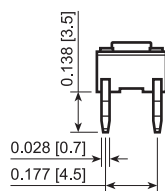
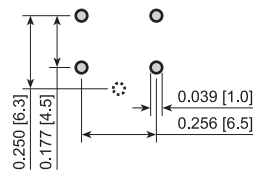
SBM-22P-TR 2P On-On
Flat SMT, Positioning Pins

LJTP-Family

LJTP1230

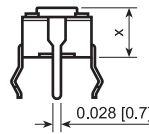


Suggested PCB Layout

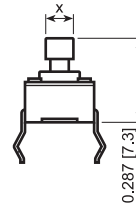


Part Number	Part Number	X
LJTP1230	LJTP1232	0.170 [4.3]
LJTP1230A	LJTP1232A	0.197 [5.0]
LJTP1230B	LJTP1232B	0.374 [9.5]
LJTP1230C	LJTP1232C	0.315 [8.0]
LJTP1230D	LJTP1232D	0.512 [13.0]
LJTP1230E	LJTP1232E	0.287 [7.3]
LJTP1230F	LJTP1232F	0.335 [8.5]
LJTP1230G	LJTP1232G	0.275 [7.0]
LJTP1230H	LJTP1232H	0.492 [12.5]
LJTP1230J	LJTP1232J	0.669 [17.0]

LJTP1232



LJTP1234

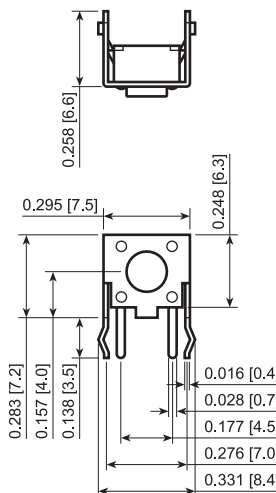


LJTP1230
LJTP1234

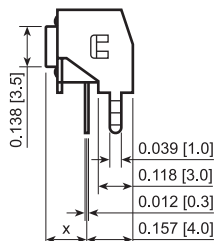
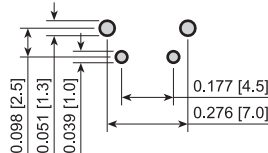


LJTP1236
LJTP1238

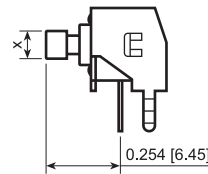
LJTP1236



Suggested PCB Layout



LJTP1105T

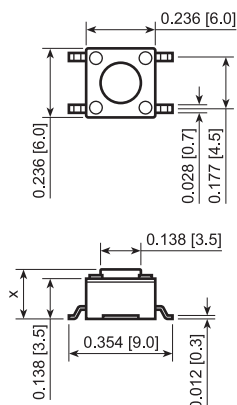


Part Number	X	Part Number	X
LJTP1236	0.124 [3.15]	LJTP1105T	0.094 [2.4]
LJTP1236A	0.152 [3.85]	LJTP1105TA	0.110 [2.8]
LJTP1236B	0.329 [8.35]		
LJTP1236C	0.270 [6.85]		
LJTP1236D	0.467 [11.85]		
LJTP1236E	0.242 [6.15]		
LJTP1236F	0.289 [7.35]		
LJTP1236G	0.230 [5.85]		
LJTP1236H	0.447 [11.35]		
LJTP1236J	0.624 [15.85]		

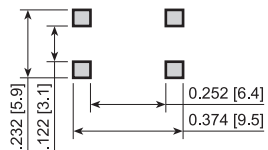
EXAMPLE PART NUMBERS:

LJTP1105T	6.45mm	Right Angle, 2.4mm Knob Actuator
LJTP1138	4.3mm	9.0mm Gull Wing SMT, Standard Actuator
LJTP1138A	5.0mm	9.0mm Gull Wing SMT, Standard Actuator
LJTP1138B	9.5mm	9.0mm Gull Wing SMT, Standard Actuator
LJTP1138C	8.0mm	9.0mm Gull Wing SMT, Standard Actuator
LJTP1230	4.3mm	Through Hole, Standard Actuator
LJTP1230A	5.0mm	Through Hole, Standard Actuator
LJTP1230B	9.5mm	Through Hole, Standard Actuator
LJTP1230C	8.0mm	Through Hole, Standard Actuator
LJTP1230D	13.0mm	Through Hole, Standard Actuator
LJTP1230F	8.5mm	Through Hole, Standard Actuator
LJTP1232A	5.0mm	Through Hole, Grounded, Standard Actuator
LJTP1232B	9.5mm	Through Hole, Grounded, Standard Actuator
LJTP1232F	8.5mm	Through Hole, Grounded, Standard Actuator
LJTP1234	7.3mm	Through Hole, 2.4mm Knob Actuator
LJTP1234A	7.3mm	Through Hole, 2.8mm Knob Actuator
LJTP1236	3.15mm	Right Angle, Standard Actuator
LJTP1236A	3.85mm	Right Angle, Standard Actuator
LJTP1236B	8.35mm	Right Angle, Standard Actuator
LJTP1236D	11.85mm	Right Angle, Standard Actuator
LJTP1236E	6.15mm	Right Angle, Standard Actuator
LJTP1236G	5.85mm	Right Angle, Standard Actuator

LJTP1138

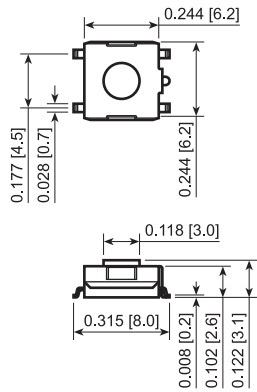


Suggested PCB Layout

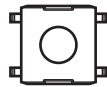


Part Number	X
LJTP1138	0.170 [4.3]
LJTP1138A	0.197 [5.0]
LJTP1138B	0.374 [9.5]
LJTP1138C	0.315 [8.0]
LJTP1138D	0.512 [13.0]
LJTP1138E	0.287 [7.3]
LJTP1138F	0.335 [8.5]
LJTP1138G	0.275 [7.0]
LJTP1138H	0.492 [12.5]
LJTP1138J	0.669 [17.0]

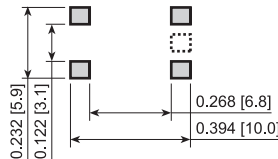
LJTP1122



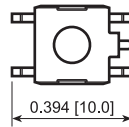
LJTP1122B



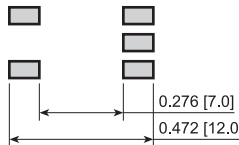
Suggested PCB Layout



LJTP1122A



Suggested PCB Layout



FEATURES:

- Various Standard Sizes
- Reliable and Economical
- Wide Range of Actuator Lengths

SPECIFICATIONS:

RATING: 50mA 12VDC

TEMPERATURE: -20°C to 70°C (Operating)
-30°C to 80°C (Storage)

ELECTRICAL LIFE: 100,000 Cycles

CONTACT RESISTANCE: 100mΩ Max. at 5VDC

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 250VAC for 1 Minute

OPERATION FORCE: 160gf ± 30gf

MATERIALS:

BASE: Polyamide 6/6, UL94 V-2

Polyamide 4/6, UL94 V-2

COVER: Tin Plated Steel

ACTUATOR: Polyamide 6/6, UL94 V-2

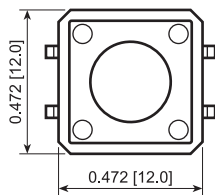
Polyamide 4/6, UL94 V-2

CONTACTS: Silver Plated Phosphor Bronze

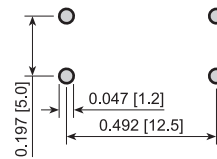
TERMINALS: Silver Plated Brass

Part Number	Part Number	Packaging
LJTP1122	LJTP1122B	Bulk
LJTP1122TR	LJTP1122BTR	Tape and Reel

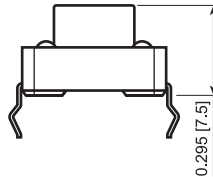
LJTP1212



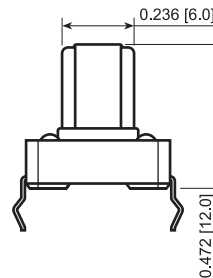
Suggested PCB Layout



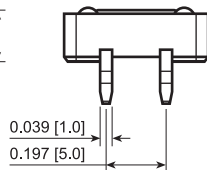
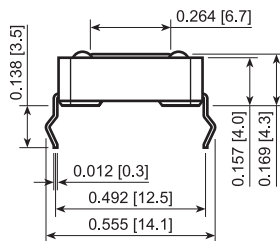
LJTP1212A



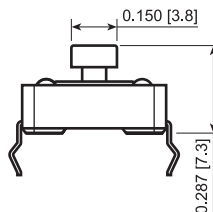
LJTP1212B



LJTP1212
LJTP1243

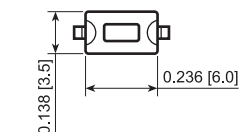


LJTP1212C

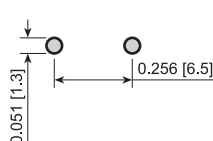


LJTP1212
LJTP1212C

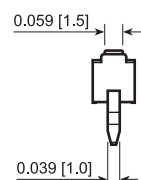
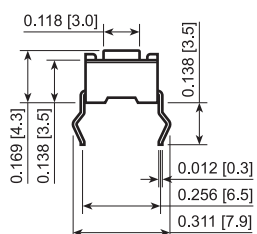
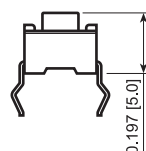
LJTP1243



Suggested PCB Layout



LJTP1250



EXAMPLE PART NUMBERS:

LJTP1122 3.1mm
9.0mm SMT, Grounded, Bulk

LJTP1122BTR 3.1mm
9.0mm SMT, Tape and Reel

LJTP1122TR 3.1mm
9.0mm SMT, Grounded, Tape and Reel

LJTP1212 4.3mm
12mm x 12mm, Standard Actuator

LJTP1212A 7.5mm
12.0mm x 12.0mm, Standard Actuator

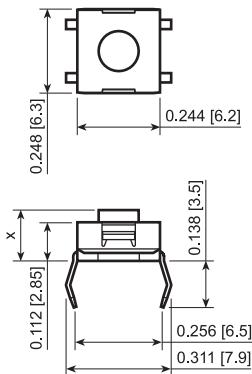
LJTP1212B 12.0mm
12.0mm x 12.0mm, 6.0mm Knob Actuator

LJTP1212C 7.3mm
12.0mm x 12.0mm, 3.8mm Knob Actuator

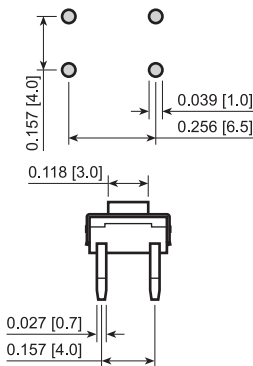
LJTP1243 4.3mm
3.5mm x 6.0mm, Through Hole

LJTP1250 5.0mm
3.5mm x 6.0mm, Through Hole

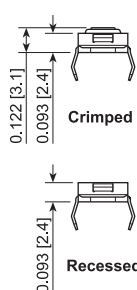
TSW-SERIES



Suggested PCB Layout



Actuator Options



FEATURES:

- Washable
- Reliable and Economical
- Tube or Tape and Reel Packaging

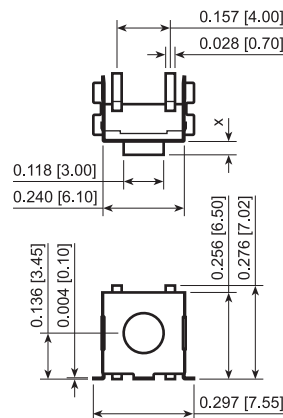
SPECIFICATIONS:

RATING: 50mA 12VDC
TEMPERATURE: -20°C to 70°C (Operating)
 -30°C to 80°C (Storage)
ELECTRICAL LIFE: For Silicone Actuators:
 500,000 Cycles
 For Crimped and Recessed:
 100,000 Cycles
CONTACT RESISTANCE: 100mΩ Max. at 5VDC
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 250VAC for 1 Minute
VIBRATION TEST: MIL-STD-202 METHOD 201A
SHOCK TEST: MIL-STD-202 METHOD 213B
OPERATION FORCE: Varies

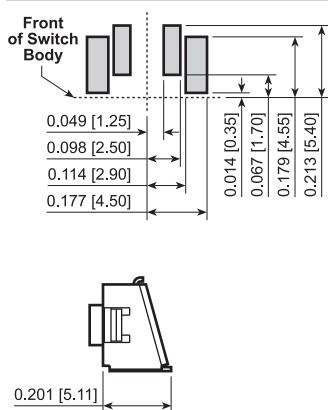
MATERIALS:

BASE: Polyamide 6/6, UL94 V-0
COVER: Stainless Steel
 Tin Plated Steel
ACTUATOR: Silicone Rubber
 Polyamide 6/6, UL94 V-0
 Nickel Plated Brass
CONTACTS: Silver Plated Phosphor Bronze
 Stainless Steel
TERMINALS: Silver Plated Brass

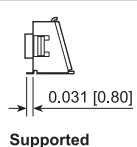
TSAMW-SERIES



Suggested PCB Layout

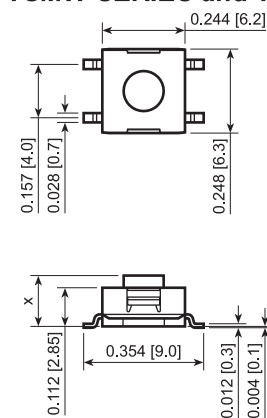


Options

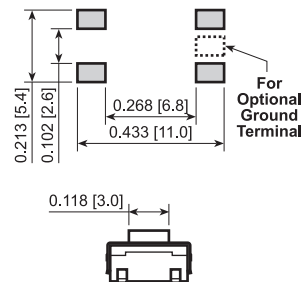


TSW-3.8-180-B

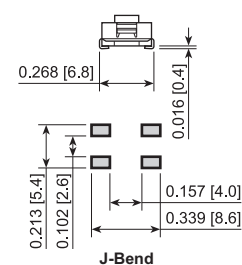
TSMW-SERIES and TSJW-SERIES



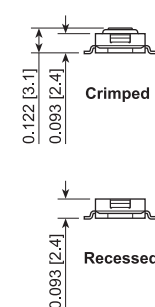
Suggested PCB Layout



Terminal Options



Actuator Options



Series	Actuator Height (X Dimension)	Actuation Force	Options	Packaging
TSW TSAMW TSM9W TSJW	2.3R 3.1C 3.1CG 3.5 3.8 4.5 5.2	160 - 160gf (*) 180 - 180gf (**) 260 - 260gf 360 - 360gf	None U - Not Supported S - Supported	B - Tube B - Tube TR - Tape and Reel
TSW TSAMW TSM9W TSJW	0.0 0.8 1.0 2.35 3.3	180 - 180gf 260 - 260gf	None U - Not Supported S - Supported	None - Bulk TR - Tape and Reel

Notes:
 * = Available with 2.3R, 3.1C, and 3.1CG Actuators Only.
 ** = Available with 3.5, 3.8, 4.5, and 5.2 Actuators Only.



TSAMW-3.3-260-S-TR

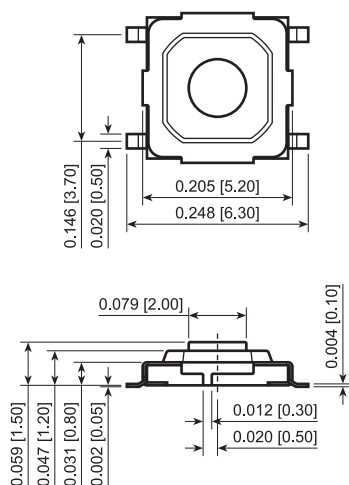


TSM9W-3.1CG-160-TR
 TSM9W-5.2-260-TR
 TSM9W-2.3R-160-TR

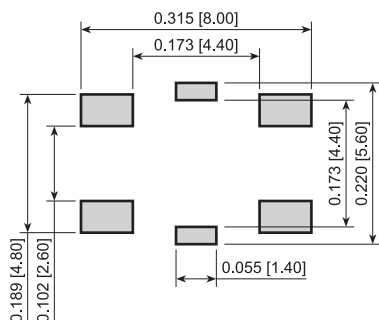
EXAMPLE PART NUMBERS:

TSM9W-3.1C-160-TR 3.1mm
 9.0mm Gull Wing SMT, Crimped Actuator
 TSJW-3.1C-160-TR 3.1mm
 J-Bend SMT, Crimped Actuator

TS52 Series



Suggested PCB Layout



FEATURES:

- Extremely Low Profile
- Tape and Reel Packaging

SPECIFICATIONS:

RATING: 50mA 12VDC

TEMPERATURE: -25°C to 70°C (Operating)

-30°C to 85°C (Storage)

ELECTRICAL LIFE: For 100gf and 160gf:
1,000,000 Cycles

For 260gf:
200,000 Cycles

CONTACT RESISTANCE: 100mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 250VAC for 1 Minute

VIBRATION TEST: MIL-STD-202 METHOD 201A

SHOCK TEST: MIL-STD-202 METHOD 213B

OPERATION FORCE: Varies

MATERIALS:

BODY: Liquid Crystal Polymer (LCP)

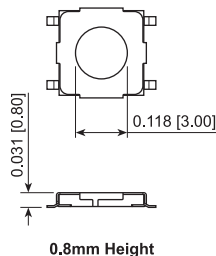
COVER: Nickel Silver

ACTUATOR: Nickel Plated Brass

CONTACTS: Silver Plated Stainless Steel

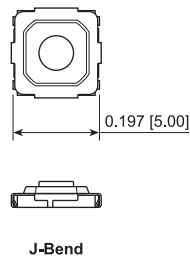
TERMINALS: Silver Plated Brass

Actuator Options

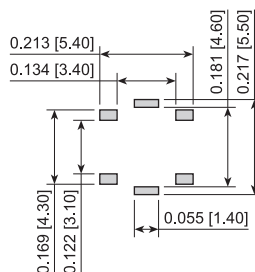


0.8mm Height

Terminal Options



J-Bend



TS52J-0.8RG-260



TS52M-1.5CG-160



TS52M-0.8RG-160-TR

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series



TS52M - Gull Wing SMT
TS52J - J-Bend SMT

Actuator Height



0.8R - 0.8mm
1.5C - 1.5mm

Ground Terminal



G - With Ground Terminals

Actuation Force



100 - 100gf
160 - 160gf
260 - 260gf

Packaging



TR - Tape and Reel

EXAMPLE PART NUMBERS:

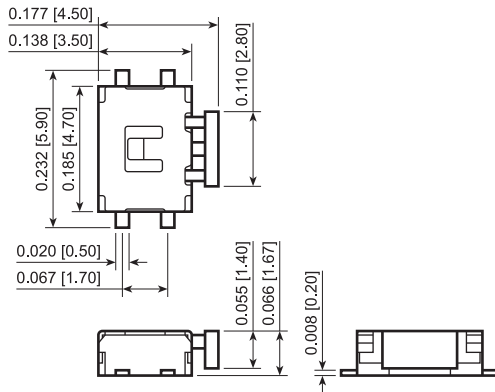
TS52J-0.8RG-160-TR 0.8mm
J-Bend Terminal, Grounded, 160gf

TS52M-0.8RG-160-TR 0.8mm
Gull Wing SMT Terminal, Grounded, 160gf

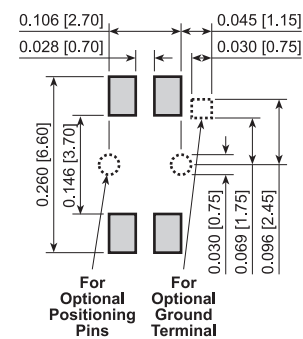
TS52M-1.5CG-160-TR 1.5mm
Gull Wing SMT Terminal, Grounded, 160gf



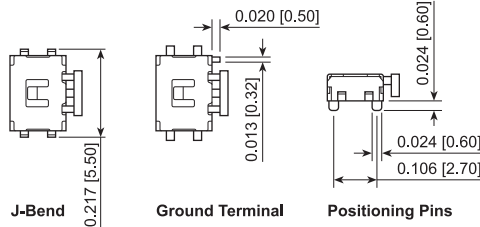
TSH-SERIES



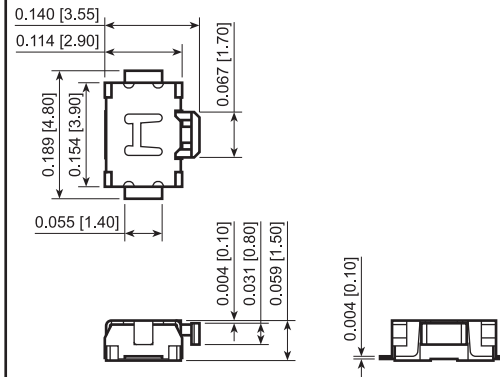
Suggested PCB Layout



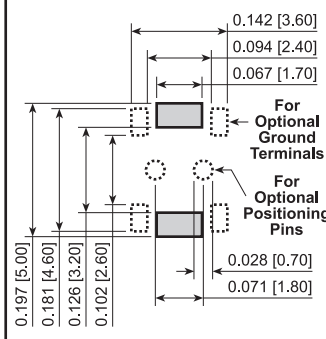
Terminal Options



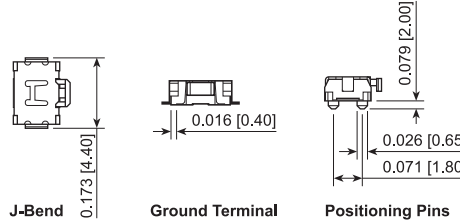
TSHC-SERIES



Suggested PCB Layout



Terminal Options



FEATURES:

- Horizontal or Vertical Tactile Operation
- Compact Surface Mount Design
- Tape and Reel Packaging

SPECIFICATIONS:

RATING: 50mA 12VDC

TEMPERATURE: -25°C to 70°C (Operating)
-30°C to 80°C (Storage)

ELECTRICAL LIFE: 100,000 Cycles

CONTACT RESISTANCE: 100mΩ Max.

INSULATION RESISTANCE: 100MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 250VAC for 1 Minute

VIBRATION TEST: MIL-STD-202 METHOD 201A

SHOCK TEST: MIL-STD-202 METHOD 213B

OPERATION FORCE: Varies

MATERIALS:

Body: Liquid Crystal Polymer (LCP)

Cover: Stainless Steel

ACTUATOR: Liquid Crystal Polymer (LCP)

CONTACTS: Silver Plated Stainless Steel

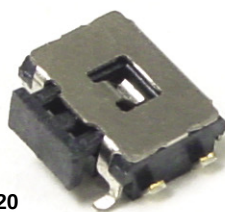
TERMINALS: Silver Plated Brass



TSHVM-2.5P-160



TSHCVJ-1.5GP-160



TSHJ-GP-220



TSHCM-GP-220



TSHCJ-G-220-TR

Series	Terminal Style	Actuator Height	Ground Terminal	Positioning Pins	Actuation Force	Packaging
TSH Series:	M - Gull Wing SMT	For Horizontal Actuators:	None - None	None - None	For Horizontal Actuators:	TR - Tape and Reel
TSH - Horizontal Actuation	J - J-Bend SMT	None - Horizontal	G - Grounded	P - With Pins	220 - 220gf	
TSHV - Vertical Actuation						
TSHC Series:		For TSHV Series:			For Vertical Actuators:	
TSHC - Horizontal Actuation		2.1 - 2.1mm			160 - 160gf	
TSHCV - Vertical Actuation		2.5 - 2.5mm				
		For TSHCV Series:				
		1.5 - 1.5mm				
		2.0 - 2.0mm				

EXAMPLE PART NUMBERS:

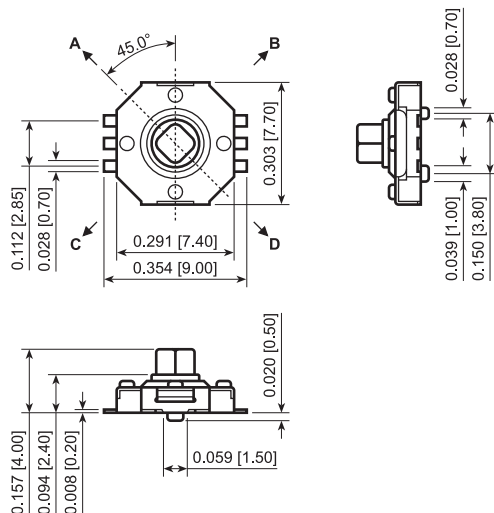
TSHM-220-TR Horizontal
Flat SMT, 220gf, Tape & Reel

TSHVM-2.1-160-TR 2.1mm Vertical
Flat SMT, 160gf, Tape & Reel

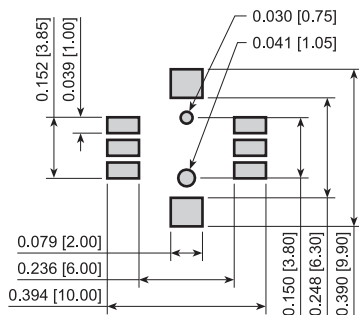
TSHCM-G-220-TR Horizontal
Compact Type, Flat SMT, 220gf, Tape & Reel

TSHCVM-1.5G-160-TR 1.5mm Vertical
Compact Type, Flat SMT, 160gf, Tape & Reel

TSD-SERIES



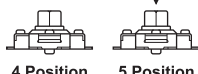
Suggested PCB Layout



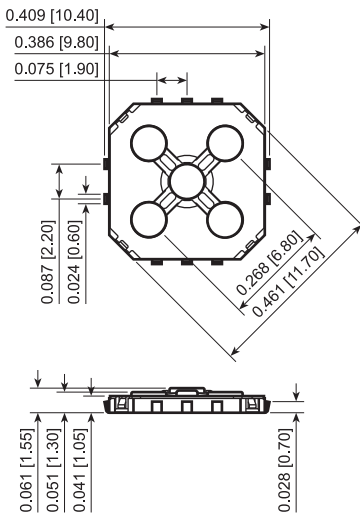
Terminal Options



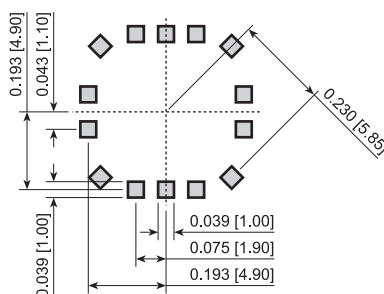
Actuation Options



TSDT-SERIES



Suggested PCB Layout



FEATURES:

- Multidirectional Tactile
- Compact Surface Mount Design
- Tube or Tape and Reel Packaging

SPECIFICATIONS:

RATING: 50mA 12VDC
TEMPERATURE: -25°C to 70°C (Operating)
 -30°C to 80°C (Storage)
ELECTRICAL LIFE: 100,000 Cycles
CONTACT RESISTANCE: 100mΩ Max.
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 250VAC for 1 Minute
VIBRATION TEST: MIL-STD-202 METHOD 201A
SHOCK TEST: MIL-STD-202 METHOD 213B
OPERATION FORCE: Varies

MATERIALS:

Body: Liquid Crystal Polymer (LCP)
 High-Temp Nylon High-Temp Nylon
Cover: Nickel Silver
ACTUATOR: High-Temp Nylon
CONTACTS: Silver Plated Stainless Steel
TERMINALS: Silver Plated Brass



TSD4J-4.0K-160



TSD5M-4.0K-160



TSDT5J-1.55-180

Series



TSD Series:
TSD4M - Gull Wing SMT
TSD4J - J-Bend SMT
TSD5M - Gull Wing SMT, Center Push
TSD5J - J-Bend SMT, Center Push

TSDT Series:
TSDT5J - J-Bend SMT

Actuator Height



For TSD Series:
4.0K - 4.0mm with Knob

For TSDT Series:
1.55 - 1.55mm

Actuation Force



For TSD Series:
160 - Directional: 160gf
 Center: 320gf

For TSDT Series:
180 - Directional: 180gf
 Center: 320gf

Packaging



For TSD Series:
TR - Tape and Reel

For TSDT Series:
B - Tube
TR - Tape and Reel

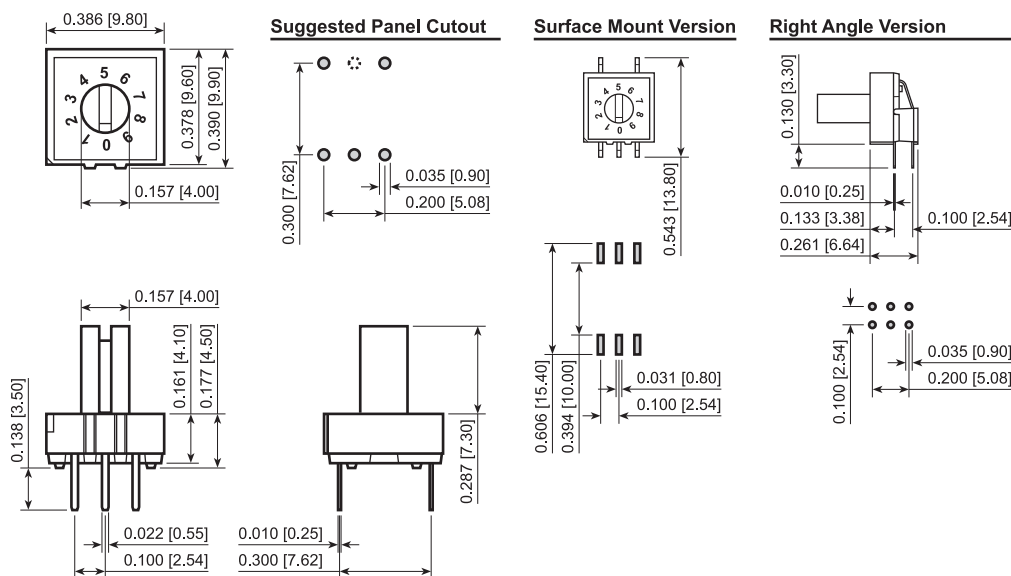
EXAMPLE PART NUMBERS:

TSD4J-4.0K-160-TR 4 Position
 4.0mm Knob Actuator, J-Bend Terminal

TSD4M-4.0K-160-TR 4 Position
 4.0mm Knob Actuator, Gull Wing Terminal

TSD5M-4.0K-160-TR 5 Position
 4.0mm Knob Actuator, Gull Wing Terminal

TSDT5J-1.55-180-TR 5 Position
 Thin Style, 1.55mm, J-Bend Terminal



FEATURES:

- Through Hole, Right Angle, and SMT Option
- Tape and Reel Packaging

SPECIFICATIONS:

RATING: 25mA 24VDC (Switching)
100mA 50VDC (Non-switching)

TEMPERATURE: -25°C to 80°C (Operating)
-40°C to 85°C (Storage)

ELECTRICAL LIFE: 15,000 Cycles

DIELECTRIC STRENGTH: 250VAC for 1 Minute

INSULATION RESISTANCE: 100MΩ Min. at 250VDC

CONTACT RESISTANCE: 100mΩ Max.

CAPACITANCE: 5pF

VIBRATION TEST: Mil-Std-202F Method 201A

SHOCK TEST: Mil-Std-202F Method 213B

OPERATION FORCE: 200gf•cm

MATERIALS:

BASE: Nylon, UL94 V-0

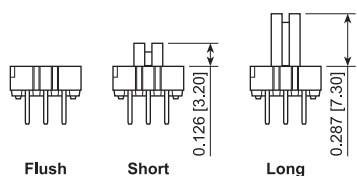
COVER: Nylon, UL94 V-0

ACTUATOR: Liquid Crystal Polymer, UL94 V-0

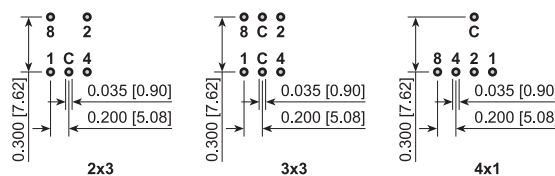
CONTACTS: Gold Over Nickel Plated Copper

TERMINALS: Gold Plated Brass

Actuator Options



Terminal Options



DR3MH-10R

DR3-10R

DR4A-16R



DR2-10R

Series	Terminal Type	Actuator Type	Number of Positions	Encoding Type	Packaging
DR2 - 2x3 Terminal Pattern	None - Through Hole	None - Flush	10 - 10 Positions	R - Real Codes	None - Bulk
DR3 - 3x3 Terminal Pattern	A - Right Angle	H - Long	16 - 16 Positions		B - Tube
DR4 - 4x1 Terminal Pattern	M - Surface Mount	S - Short (*)			TR - Tape and Reel (**)
	S - Snap-In Through Hole				

Notes:
* = Available with 3x3 Terminal Pattern Only.
** = Available with Surface Mount Terminals Only.

EXAMPLE PART NUMBERS:

DR2-10R 10 Position
2x3, Through Hole, Flush, Real Code

DR3-10R 10 Position
3x3, Through Hole, Flush, Real Code

DR3-16R 16 Position
3x3, Through Hole, Flush, Real Code

DR3A-10R 10 Position
3x3, Right Angle, Flush, Real Code

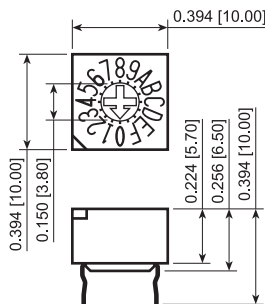
DR3AH-10R 10 Position
3x3, Right Angle, Long, Real Code

DR3H-10R 10 Position
3x3, Through Hole, Long, Real Code

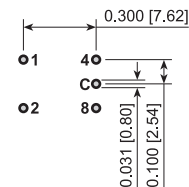
DR3H-16R 16 Position
3x3, Through Hole, Long, Real Code

DR3M-10R 10 Position
3x3, SMT, Flush Actuator, Real Code

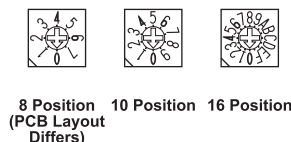
SRJ-SERIES



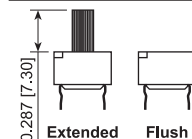
Suggested PCB Layout



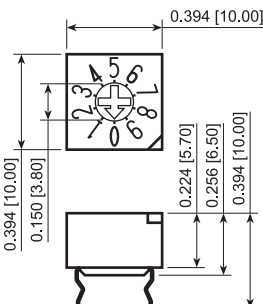
Position Options



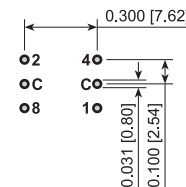
Actuator Options



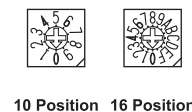
SRK-SERIES



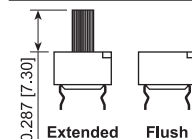
Suggested PCB Layout



Position Options



Actuator Options



FEATURES:

- 3x2, 3x3, and 4x1 Pin Layouts
- Through Hole and Surface Mount Versions
- Washable
- Superior Quality

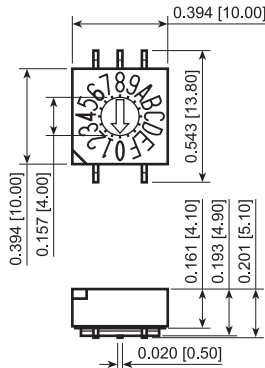
SPECIFICATIONS:

RATING: 100mA 5VDC (Switching)
100mA 50VDC (Non-Switching)
TEMPERATURE: -10°C to 60°C (Operating)
-40°C to 85°C (Storage)
OPERATING FORCE: 400gf*cm
ELECTRICAL LIFE: 15,000 Cycles
CONTACT RESISTANCE: 100mΩ Max.
INSULATION RESISTANCE: 100MΩ at 250VDC
DIELECTRIC STRENGTH: 250VAC for 1 Minute

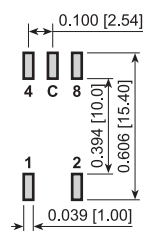
MATERIALS:

BASE: Polyphenylene Sulfide (PPS)
HOUSING: Polyphenylene Sulfide (PPS)
ACTUATOR: Polyacetal
O-RING: NBR
CONTACT: Glass Fabric Epoxy Resin
Gold Over Nickel Plated
TERMINALS: Gold Over Nickel Plated Bronze
Tin Over Nickel Plated Bronze

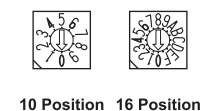
SRM-SERIES



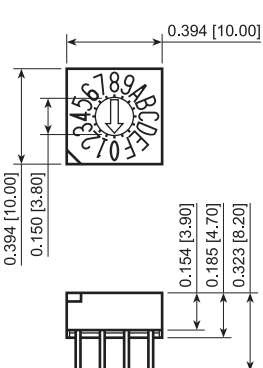
Suggested PCB Layout



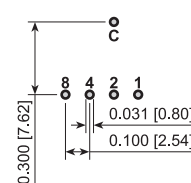
Position Options



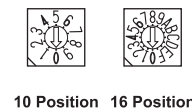
SRT-SERIES



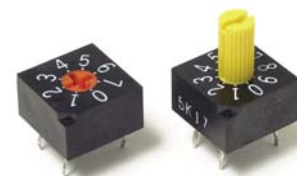
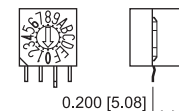
Suggested PCB Layout



Position Options



Right Angle Option



SRJ-8
SRJ-10HC



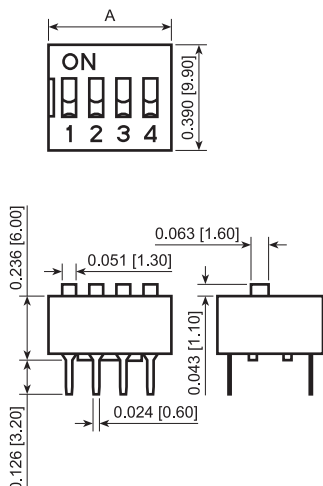
SRT-10

SRK-10H

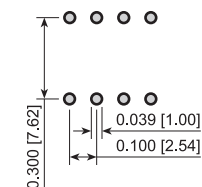
SRM-10T

Series	Number of Positions	Actuator Options	Right Angle Option	Encoding Options	Tape Sealing	Packaging Options
SRJ - 2x3, Through Hole	8	For SRJ and SRK Series: None - Flush	For SRJ, SRK, and SRM Series: None - Vertical	None - Real	For SRJ, SRK, and SRT Series: None - No Tape	For SRJ, SRK, and SRT Series: None - Tube
SRK - 3x3, Through Hole	10	H - Extended	For SRM and SRT Series: None - Vertical	C - Complementary	For SRM Series: None - No Tape	For SRM Series: None - Tube
SRM - 2x3, SMT	16		R - Right Angle		T - Taped	TR - Tape and Reel
SRT - 4x1, Through Hole						

LDS-SERIES



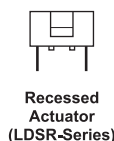
Suggested PCB Layout



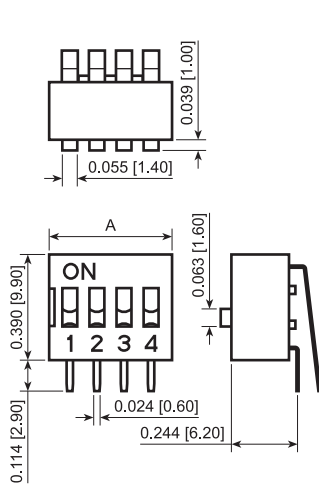
Available Positions

# of Pos.	A
2	0.254 [6.44]
3	0.354 [8.98]
4	0.454 [11.52]
5	0.554 [14.06]
6	0.654 [16.60]
7	0.754 [19.14]
8	0.854 [21.68]
9	0.954 [24.22]
10	1.054 [26.76]
12	1.254 [31.84]

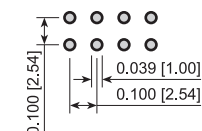
Options



LDA-SERIES



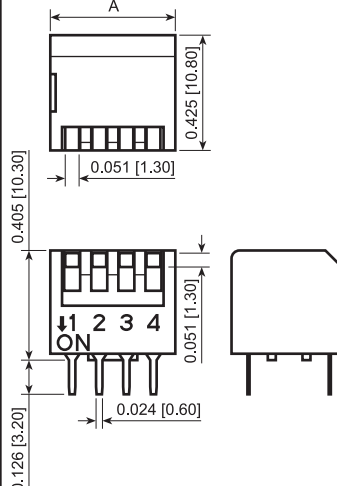
Suggested PCB Layout



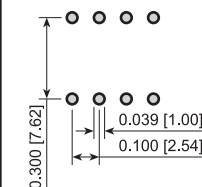
Available Positions

# of Pos.	A
2	0.254 [6.44]
3	0.354 [8.98]
4	0.454 [11.52]
5	0.554 [14.06]
6	0.654 [16.60]
7	0.754 [19.14]
8	0.854 [21.68]
9	0.954 [24.22]
10	1.054 [26.76]
12	1.254 [31.84]

LDP-SERIES



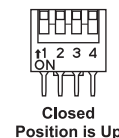
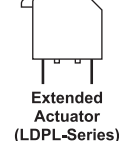
Suggested PCB Layout



Available Positions

# of Pos.	A
2	0.261 [6.64]
3	0.361 [9.18]
4	0.461 [11.72]
5	0.561 [14.26]
6	0.661 [16.80]
7	0.761 [19.34]
8	0.861 [21.88]
9	0.961 [24.42]
10	1.061 [26.96]
12	1.261 [32.04]

Options



FEATURES:

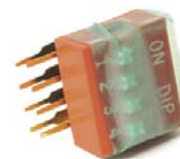
- Through Hole and Right Angle Mounting
- Reliable and Economical
- Washable With Tape Sealing

SPECIFICATIONS:

RATING: 25mA 24VDC (Switching)
100mA 50VDC (Non-switching)
TEMPERATURE: -20°C to 70°C (Operating)
-40°C to 85°C (Storage)
ELECTRICAL LIFE: 2,000 Cycles per Switch
CONTACT RESISTANCE: 50mΩ Max.
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 500VAC for 1 Minute
CAPACITANCE: 5pF
VIBRATION TEST: Mil-Std-202F Method 201A
SHOCK TEST: Mil-Std-202F Method 213B
OPERATION FORCE: LDS and LDA Series:
1000gf
LDP Series:
400gf

MATERIALS:

BASE: Polybutylene Terephthalate, UL94 V-0
COVER: Polybutylene Terephthalate, UL94 V-0
ACTUATOR: Polybutylene Terephthalate, UL94 V-0
CONTACTS: Gold Plated Phosphor Bronze
TERMINALS: Gold Plated Phosphor Bronze
POTTING: Epoxy



LDA-04-R-T

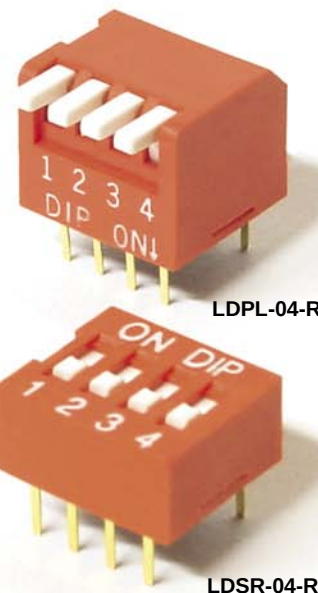
EXAMPLE PART NUMBERS:

LDA-04-R-B	4 Position
<i>Right Angle, Tube</i>	
LDA-06-R-B	6 Position
<i>Right Angle, Tube</i>	
LDA-08-R-B	8 Position
<i>Right Angle, Tube</i>	
LDA-10-R-T-B	10 Position
<i>Right Angle, Taped, Tube</i>	
LDP-04-R-B	4 Position
<i>Piano Style, Tube</i>	
LDP-06-R-B	6 Position
<i>Piano Style, Tube</i>	
LDP-08-R-B	8 Position
<i>Piano Style, Tube</i>	
LDPL-04-R-B	4 Position
<i>Piano Style, Extended Actuator, Tube</i>	
LDPL-06-R-B	6 Position
<i>Piano Style, Extended Actuator, Tube</i>	
LDS-04-R-B	4 Position
<i>Standard Actuator, Tube</i>	
LDS-04-R-T-B	4 Position
<i>Standard Actuator, Taped, Tube</i>	
LDS-06-R-B	6 Position
<i>Standard Actuator, Tube</i>	
LDS-08-R-T-B	8 Position
<i>Standard Actuator, Taped, Tube</i>	
LDS-10-R-T-B	10 Position
<i>Standard Actuator, Taped, Tube</i>	
LDSR-04-R-T-B	4 Position
<i>Recessed Actuator, Taped, Tube</i>	
LDSR-08-R-T-B	8 Position
<i>Recessed Actuator, Taped, Tube</i>	

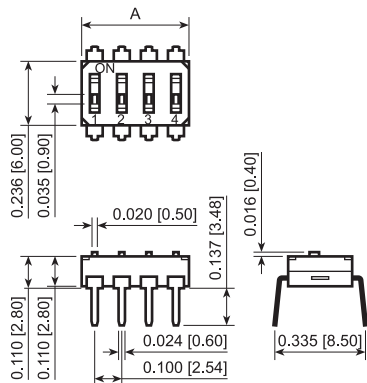
Series	Number of Positions	Cover Color	Tape Sealing	Packaging
	02 07	R - Red	None	B - Tube
	03 08	B - Blue	T - Tape Sealed	
	04 09	K - Black		
	05 10			
	06 12			

Series	Number of Positions	Cover Color	Tape Sealing	Packaging
	02 07	R - Red	None	B - Tube
	03 08	B - Blue	T - Tape Sealed	
	04 09	K - Black		
	05 10			
	06 12			

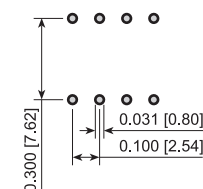
Series	Number of Positions	Closed Position	Cover Color	Tape Sealing	Packaging
	02 07	None - Down	R - Red	None	B - Tube
	03 08	U - Up	B - Blue	T - Tape Sealed	
	04 09		K - Black		
	05 10				
	06 12				



LDIN SERIES



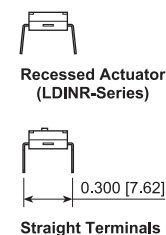
Suggested PCB Layout



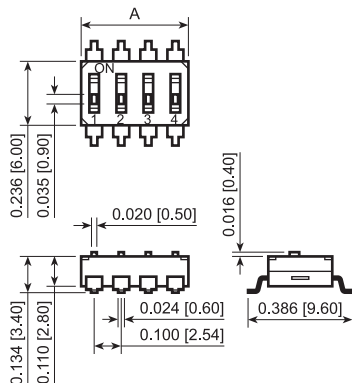
Available Positions

# of Pos.	A
1	0.096 [2.44]
2	0.196 [4.98]
3	0.296 [7.52]
4	0.396 [10.06]
5	0.496 [12.60]
6	0.596 [15.14]
7	0.696 [17.68]
8	0.796 [20.22]
9	0.896 [22.76]
10	0.996 [25.30]
12	1.196 [30.38]

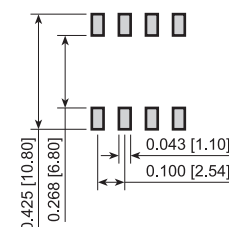
Options



LDMN / LDJN SERIES



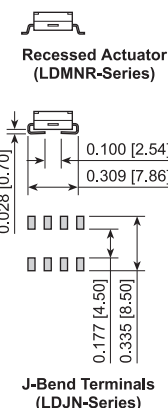
Suggested PCB Layout



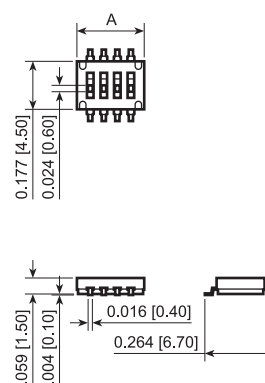
Available Positions

# of Pos.	A
1	0.096 [2.44]
2	0.196 [4.98]
3	0.296 [7.52]
4	0.396 [10.06]
5	0.496 [12.60]
6	0.596 [15.14]
7	0.696 [17.68]
8	0.796 [20.22]
9	0.896 [22.76]
10	0.996 [25.30]
12	1.196 [30.38]

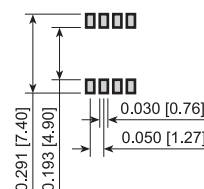
Options



LDH SERIES



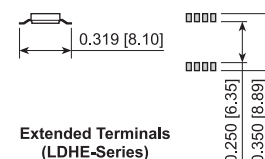
Suggested PCB Layout



Available Positions

# of Pos.	A
2	0.148 [3.77]
4	0.248 [6.31]
6	0.348 [8.85]
8	0.448 [11.39]
10	0.548 [13.93]

Options



FEATURES:

- Through Hole and Surface Mounting
- Reliable and Economical
- Washable With Tape Sealing
- End-to-End Stackable with Standard Pitch

SPECIFICATIONS:

RATING: 25mA 24VDC (Switching)
100mA 50VDC (Non-switching)
TEMPERATURE: -20°C to 85°C (Operating)
-40°C to 85°C (Storage)
ELECTRICAL LIFE: LDIN and LDMN Series:
2,000 Cycles per Switch
LDH Series:
1,000 Cycles per Switch
CONTACT RESISTANCE: 100mΩ Max.
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: LDIN and LDMN Series:
500VAC for 1 Minute
LDH Series:
300VAC for 1 Minute
CAPACITANCE: 5pF
VIBRATION TEST: Mil-Std-202F Method 201A
SHOCK TEST: Mil-Std-202F Method 213B
OPERATION FORCE: LDIN and LDMN Series:
1000gf
LDH Series:
500gf

MATERIALS:

BASE: Polyamide 9T, UL94 V-0
COVER: Polyamide 9T, UL94 V-0
ACTUATOR: Liquid Crystal Polymer, UL94 V-0
CONTACTS: Gold Over Nickel Plated Copper
TERMINALS: Gold Plated Brass

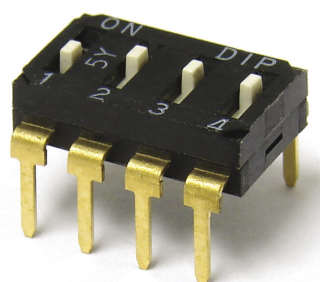
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Number of Positions	Terminal Type	Tape Sealing	Packaging
LDIN - Standard Actuator	01 07	S - Splay	None	None - Bulk
LDINR - Recessed Actuator	02 08	H - Straight	T - Tape Sealed	B - Tube
	03 09			
	04 10			
	05 12			
	06			

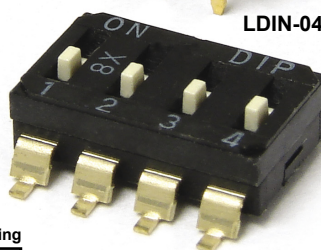
Series	Number of Positions	Tape Sealing	Packaging
SMT Terminals:	01 07	None	None - Bulk
LDMN - Standard Actuator	02 08 (*)	T - Tape Sealed	B - Tube
LDMNR - Recessed Actuator	03 09		TR - Tape and Reel
	04 (*) 10 (*)		
	05 12		
	06		

Notes:
* = Position options available with J-Bend terminals.

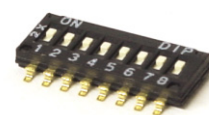
Series	Number of Positions	Shipped Position	Plating	Tape Sealing	Packaging
LDH - Standard Terminals	02 08	None - Off	None - 3µ" Gold	None	None - Bulk
LDHE - Extended Terminals	04 10	N - On	G - 10µ" Gold	T - Tape Sealed	B - Tube
	06				TR - Tape and Reel



LDIN-04H



LDMN-04



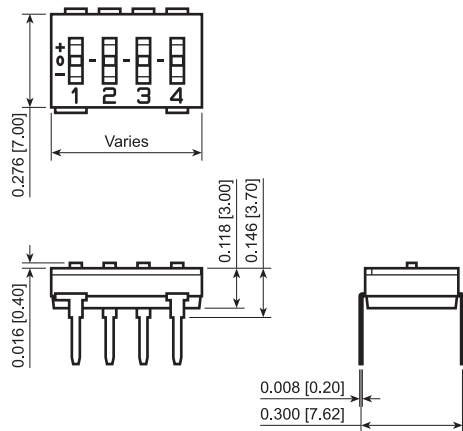
LDH-08

EXAMPLE PART NUMBERS:

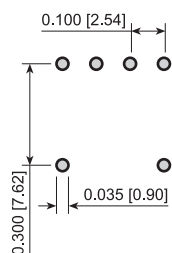
LDMNR-04-T-B	4 Position
Recessed Actuator, SMT, Taped, Tube	
LDMNR-06-T-B	6 Position
Recessed Actuator, SMT, Taped, Tube	
LDMNR-08-T-B	8 Position
Recessed Actuator, SMT, Taped, Tube	
LDH-04-T-B	4 Position
Half Pitch, SMT, Taped, Tube	
LDH-06-T-B	6 Position
Half Pitch, SMT, Taped, Tube	
LDH-08-T-B	8 Position
Half Pitch, SMT, Taped, Tube	



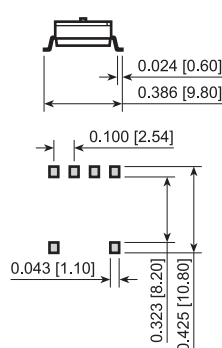
LDC-SERIES



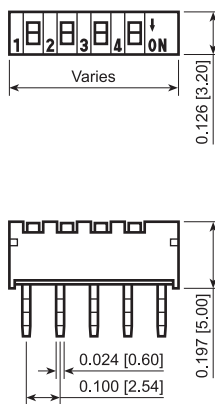
Suggested PCB Layout



Surface Mount Option



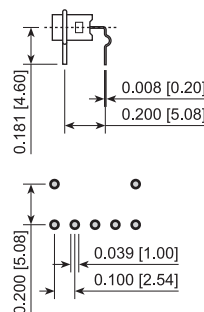
LDN-SERIES



Suggested PCB Layout



Right Angle Option



FEATURES:

- Three Position DIP or Two Position SIP
- Through Hole or Surface Mount Options
- Washable With Tape Sealing
- Tube or Tape and Reel Packaging

SPECIFICATIONS:

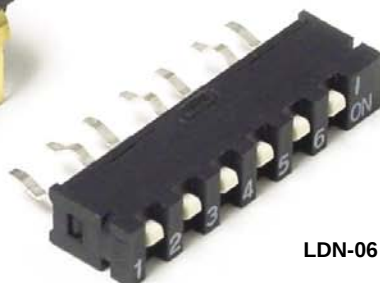
RATING: 25mA 24VDC (Switching)
100mA 50VDC (Non-switching)
TEMPERATURE: -20°C to 70°C (Operating)
-40°C to 85°C (Storage)
ELECTRICAL LIFE: LDC Series:
2,000 Cycles per Switch
LDN Series:
500 Cycles
CONTACT RESISTANCE: 50mΩ Max.
INSULATION RESISTANCE: 100MΩ Min. at 500VDC
DIELECTRIC STRENGTH: 500VAC for 1 Minute
CAPACITANCE: 5pF
VIBRATION TEST: Mil-Std-202F Method 201A
SHOCK TEST: Mil-Std-202F Method 213B
OPERATION FORCE: LDC Series:
1000gf
LDN Series:
800gf

MATERIALS:

BASE: High-Temp Nylon, UL94 V-0
COVER: High-Temp Nylon, UL94 V-0
ACTUATOR: Liquid Crystal Polymer, UL94 V-0
CONTACTS: Gold Plated Copper
TERMINALS: Gold Plated Brass
Tin Plated Brass



LDC-08



LDN-06



LDCM-08



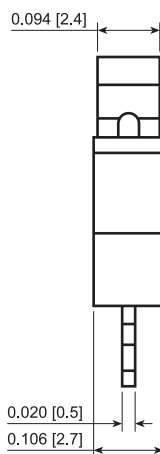
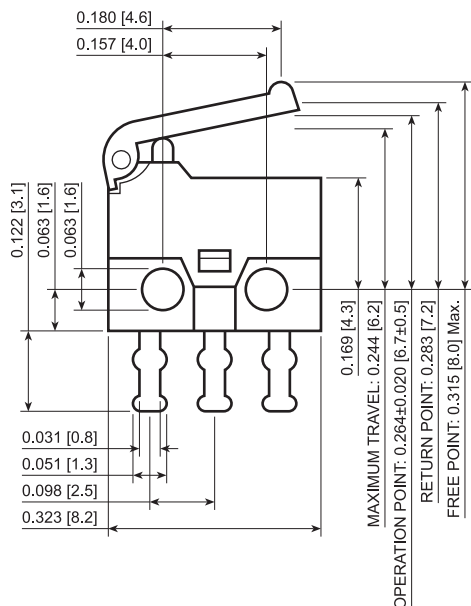
LDNA-04

Series	Number of Positions	Tape Sealing	Packaging
LDC Series: LDC - Through Hole LDCM - SMT LDCR - Through Hole, Recessed Actuator LDCMR - SMT, Recessed Actuator	For LDC Series: 04 08 09 10	For LDC Series: None Bulk T - Tape Sealed (*) For LDN Series: None	For LDC Series: None - Bulk B - Tube TR - Tape and Reel (**)
LDN Series: LDN - Through Hole LDNA - Right Angle Through Hole	For LDN Series: 02 04 06 08 10	For LDN Series: None - Bulk B - Tube	For LDN Series: None - Bulk B - Tube

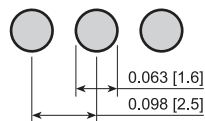
Notes:
* = Available with Recessed Actuators Only.
** = Available with SMT Styles Only.

EXAMPLE PART NUMBERS:

LDC-04-B	4 Position
Right Angle, Taped, Tube	
LDC-08-B	8 Position
Right Angle, Taped, Tube	
LDN-04-B	4 Position
Right Angle, Taped, Tube	
LDN-08-B	8 Position
Right Angle, Taped, Tube	



Suggested PCB Layout



FEATURES:

- Ultra-Compact Switch
- Long Electrical Life
- Multiple Terminal & Actuator Options
- Low Actuation Force

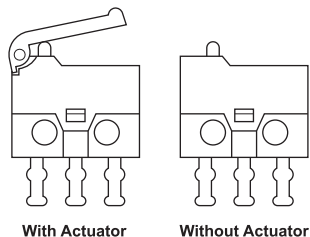
SPECIFICATIONS:

RATING: 500mA 30VDC
ELECTRICAL LIFE: 100,000 Cycles
CONTACT RESISTANCE: 100mΩ Max.
INSULATION RESISTANCE: 100MΩ Min. at 250VDC
DIELECTRIC STRENGTH: 500VAC for 1 Minute
TEMPERATURE: -15°C to 70°C

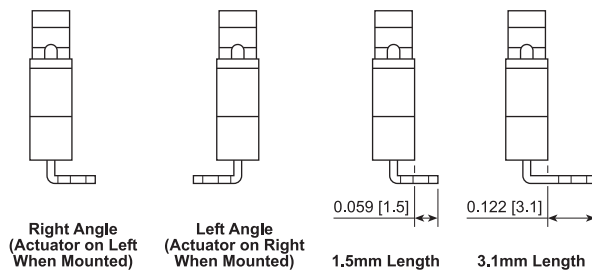
MATERIALS:

BODY: Polybutylene Terephthalate (PBT), UL94 HB
BODY COVER: Polyoxymethylene (POM), UL94 HB
ACTUATOR: Polyoxymethylene (POM), UL94 HB
LEVER: Polybutylene Terephthalate (PBT), UL94 HB
CONTACTS: Silver
SPRING: Beryllium Copper
TERMINALS: Silver Plated Brass

Actuator Options



Terminal Options



SSM-001



SSM-001-D1

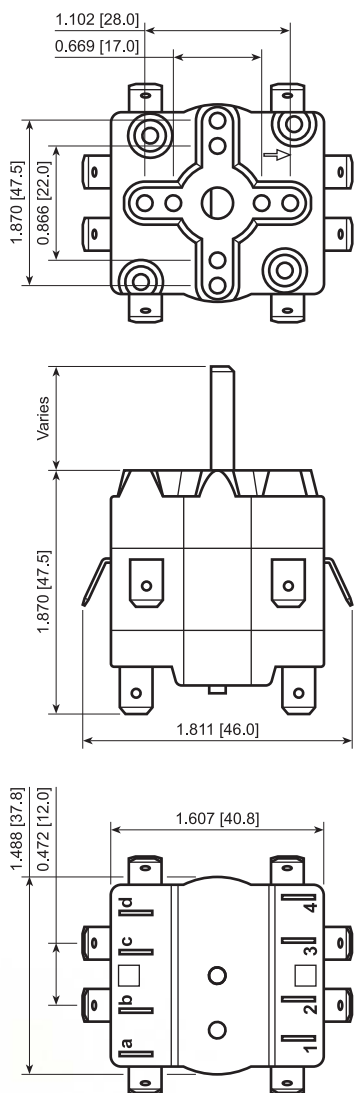
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Series	Actuator Type	Terminal Type
SSM	001 - With Lever 002 - Without Lever	None - PCB Pins C1 - Right Angle, 1.5mm C2 - Right Angle, 3.1mm D1 - Left Angle, 1.5mm D2 - Left Angle, 3.1mm

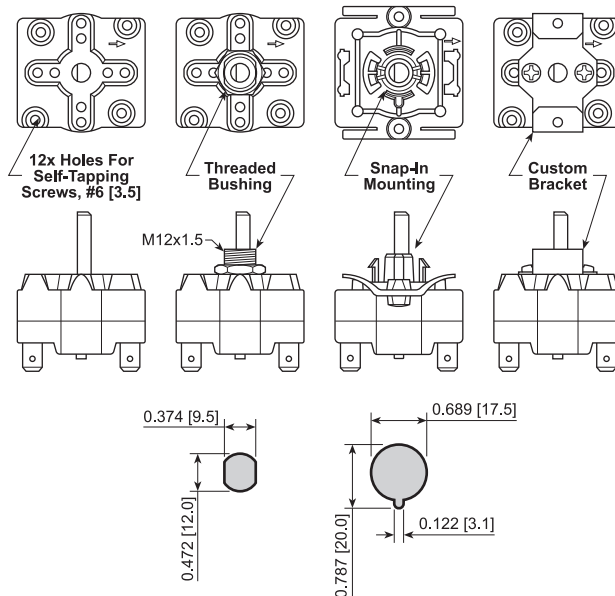
EXAMPLE PART NUMBERS:

SSM-001 1P On-(On)
With Actuator, PCB Pins
SSM-002 1P On-(On)
No Actuator, PCB Pins

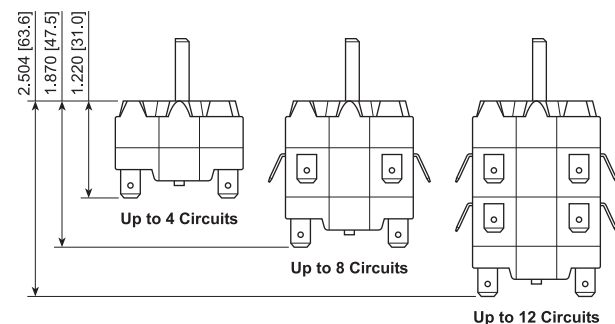
4RH Series



Mounting Options



Number of Circuits



FEATURES:

- High Current Capacity
- Up To 12 Circuits
- Multiple Terminal & Actuator Options
- Housing Made of Rugged Glass Reinforced Nylon

SPECIFICATIONS:

RATING: 16A 250VAC [cULus]
12A 250VAC [cULus]
25A 250VAC [cULus]
(Upon Request)
1HP 120VAC [cULus]
2HP 250VAC [cULus]
16(4)A 250VAC [ENEC]
12(3)A 250VAC [ENEC]
10(2)A 400VAC [ENEC]
8(2)A 400VAC [ENEC]
16(8)A 250VAC [ENEC]
(Upon Request)
10(4)A 400VAC [ENEC]
(Upon Request)

ELECTRICAL LIFE: 300,000 Cycles
TEMPERATURE RATING: -20°C to 105°C

MATERIALS:

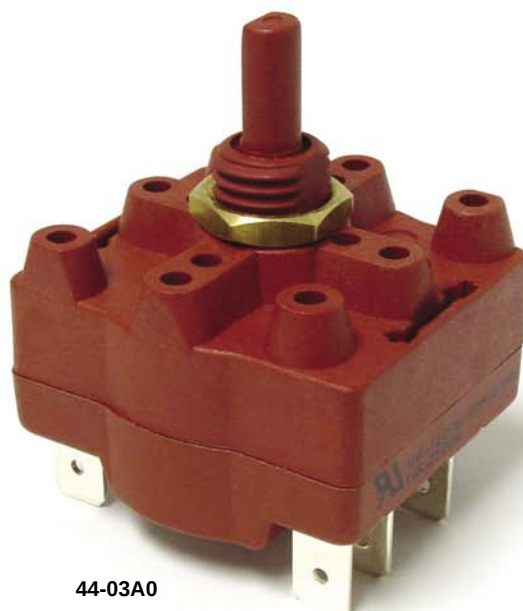
Body: Polyamide 6/6, UL94 V-2
ACTUATOR: Polyamide 6/6, UL94 V-2
CONTACTS: Silver Alloy
MOBILE CONTACTS: Silver Alloy
TERMINALS: Silver Plated Brass
SPRINGS: Piano Wire
Copper
HARDWARE: Brass



47-0600



44-03A



44-03A0

EXAMPLE PART NUMBERS:

48-03111 1P3T
45° Index, 1: None, 2: D2, 3: D3, 4: D4

X02 Series



High Temperature



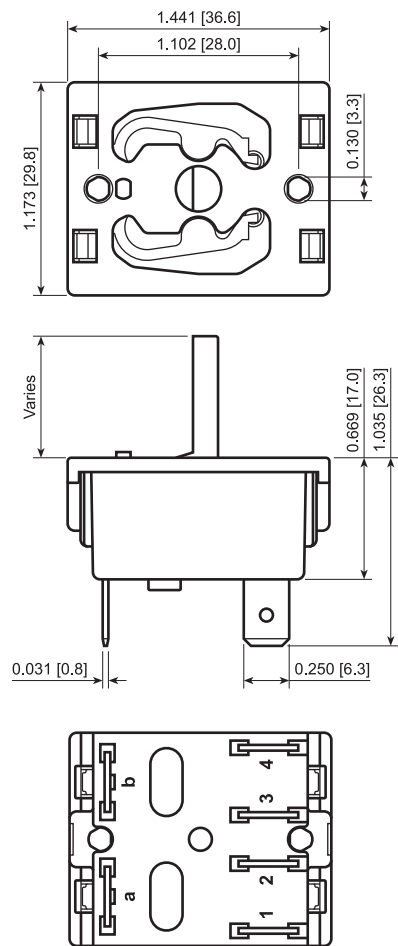
Heavy Duty



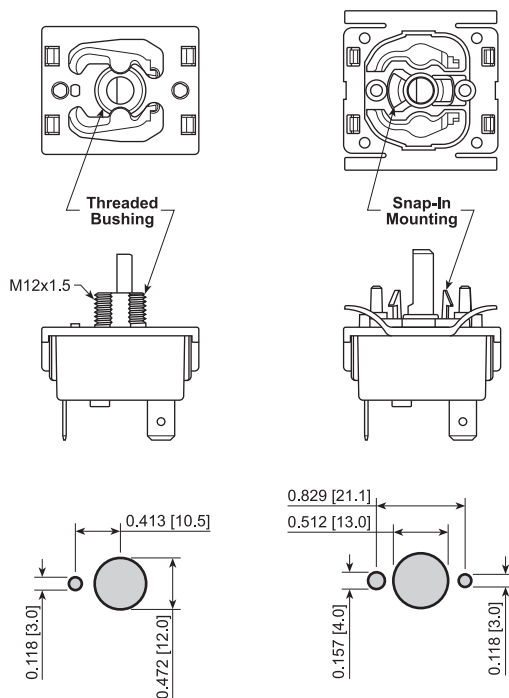
Rear Panel Mount



RoHS CE



Mounting Options



FEATURES:

- Up To 4 Circuits
- Multiple Terminal & Actuator Options
- Housing Made of Rugged Glass Reinforced Nylon

SPECIFICATIONS:

RATING: 10A 125VAC [cULus]
1/4HP 125VAC [cULus]
10(3)A 250V [ENEC]
6(1.8)A 400V [ENEC]

ELECTRICAL LIFE: 300,000 Cycles

TEMPERATURE RATING: -20°C to 125°C

CONTACT RESISTANCE: 35mΩ Max. at 50VAC

INSULATION RESISTANCE: 100MΩ Min. at 500VAC

DIELECTRIC STRENGTH: 1,500VAC for 1 Minute

MATERIALS:

BODY: Polyamide 6/6, UL94 V-2

ACTUATOR: Polyamide 6/6, UL94 V-2

CONTACTS: Silver

MOBILE CONTACTS: Silver

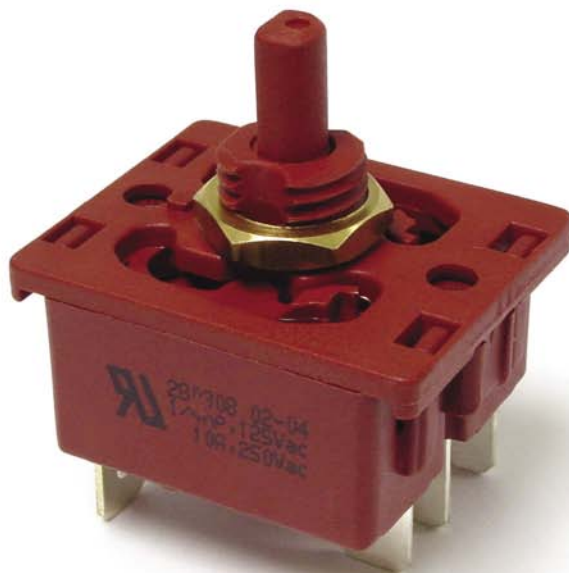
TERMINALS: Silver Plated Brass

SPRINGS: Piano Wire

COPPER: Copper

HARDWARE: Brass

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



28-03081



24-03A2

ROTARY



Ph: 503-297-8878 • Fax: 503-297-8879

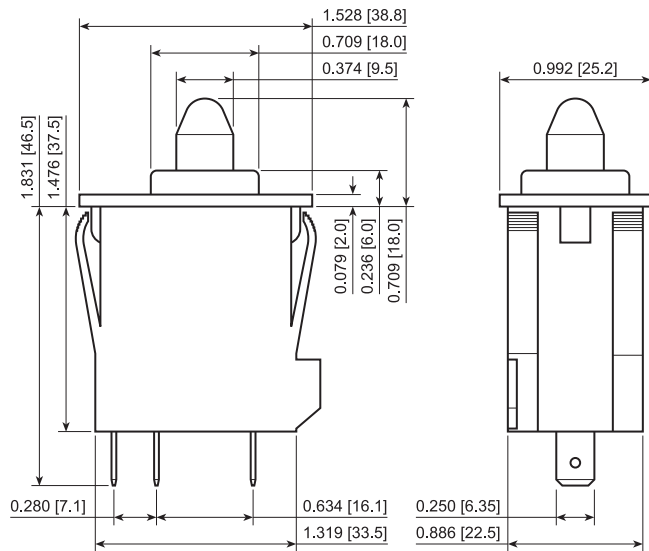
63

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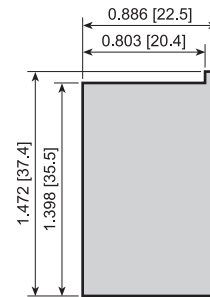
EXAMPLE PART NUMBERS:

28-03081 1P3T
45° Index, 1: AB1, 2: AB2, 3: AB3

PB-12L03-SERIES (FAILSAFE)



Panel Cutout



FEATURES

- Special Safety Feature Prevents "Runaways"
- High Current Loading and Long Life Cycle
- Internal Sealing Against Dust and Water
- Patented Design
- Ideal for Toy Car Applications

Due to its patented internal design, this switch prevents a "runaway" should the switch become stuck in the ON position due to contact welding.

SPECIFICATIONS:

RATING: FAILSAFE :

30A 12VDC, 100A Inrush

MINI-FAILSAFE:

10A 6VDC, 30A Inrush

TEMPERATURE: -10°C to 60°C

ELECTRICAL LIFE: 200,000 Cycles Min.

CONTACT RESISTANCE: 30mΩ Max.

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 500VAC for 1 Minute

OPERATING FORCE: 2500±500gf

MATERIALS:

BODY: Polyamide 6/6 UL94 V-0

ACTUATOR: Polyamide 6/6 UL94 V-0

CONTACTS: Silver Alloy

TERMINALS: Silver Plated Brass

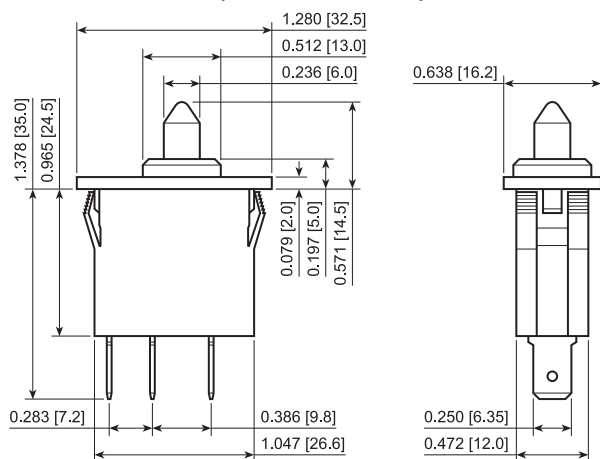
PATENTS:

USA: 6,028,274

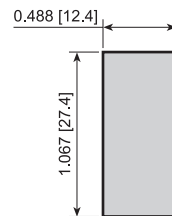
ITALY: 1,306,784

CHINA: ZL 2004 20015395.4

PB-12J01-SERIES (MINI-FAILSAFE)



Panel Cutout



Series



Fail-safe:
PB-12L03

Mini-Failsafe:
PB-12J01

PB-12L03



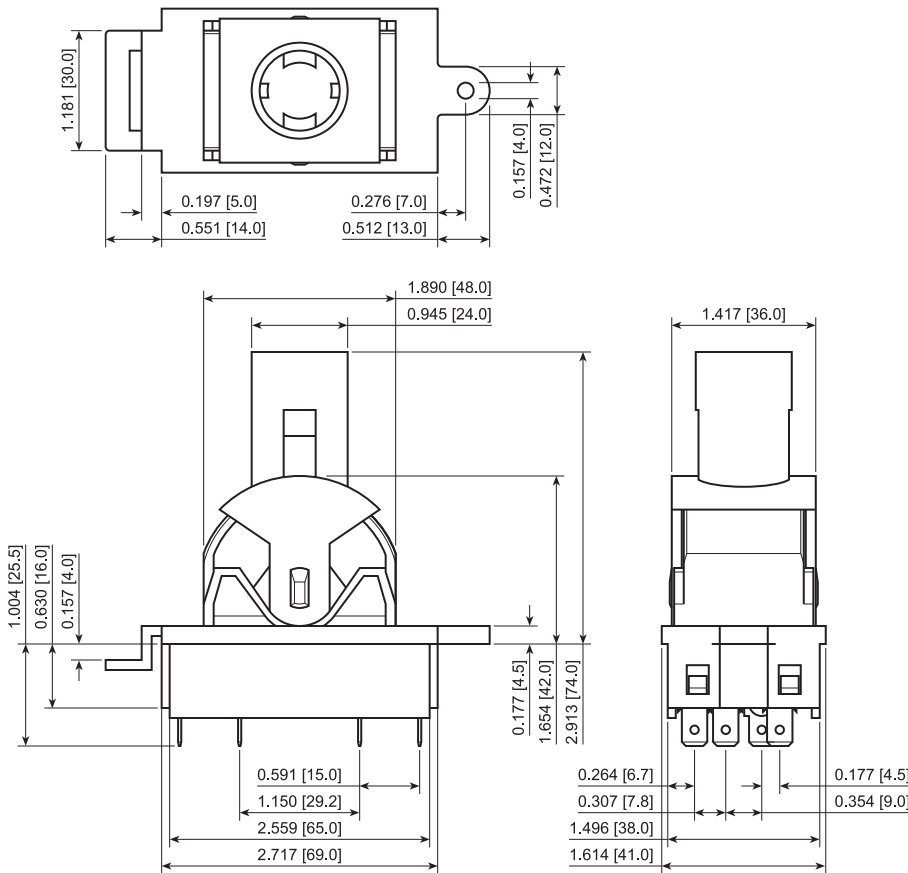
PB-12J01



EXAMPLE PART NUMBERS:

PB-12L03 1P On-(On)
30A, Failsafe, 2nd Generation

PB-12J01 1P On-(On)
10A, Mini-Failsafe



FEATURES

- High Speed, Low Speed, and Reverse Shifter
- Smooth Actuation
- Minor Weld Breaking Capability
- Internally Sealed Against Dust and Water
- Designed for Custom Handles
- Patented Design

SPECIFICATIONS:

RATING: 30A 12VDC

TEMPERATURE: -20°C to 85°C

ELECTRICAL LIFE: 10,000 cycles

CONTACT RESISTANCE: 30mΩ Max.

INSULATION RESISTANCE: 500MΩ Min. at 500VDC

DIELECTRIC STRENGTH: 500VAC for 1 Minute

MATERIALS:

BODY: Polyamide 6/6, UL94 V-0

ACTUATOR: Polyamide 6/6, UL94 V-0

CONTACTS: Silver Alloy

TERMINALS: Brass

PATENTS:

USA: 6,422,330

CHINA: ZL 2005 2 0008247.4

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

HLR-01



Series
 -
 HLR-01

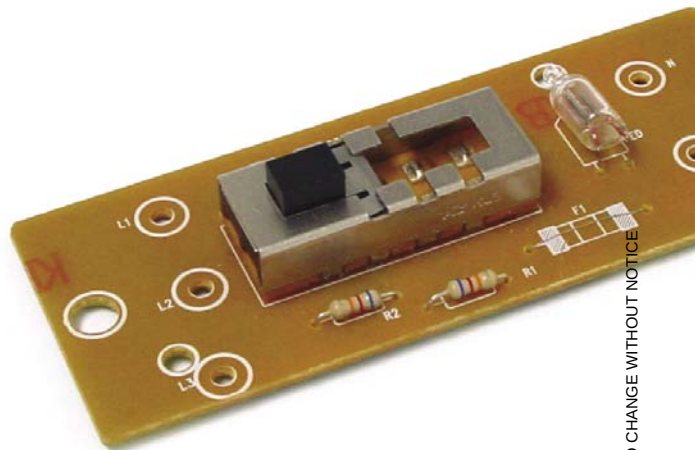
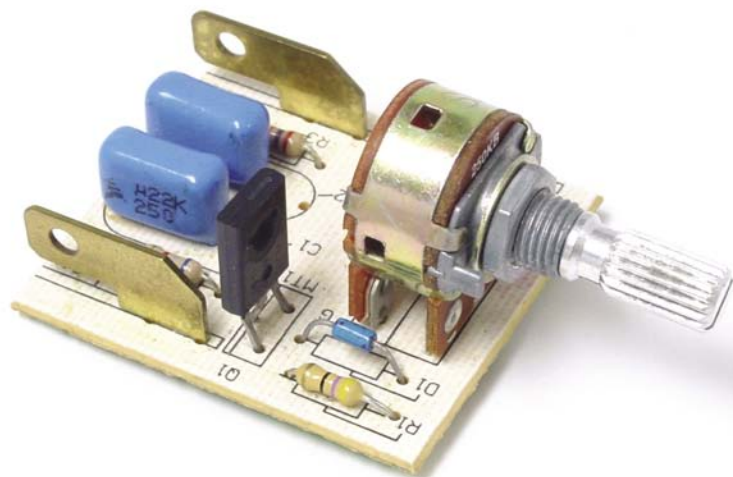
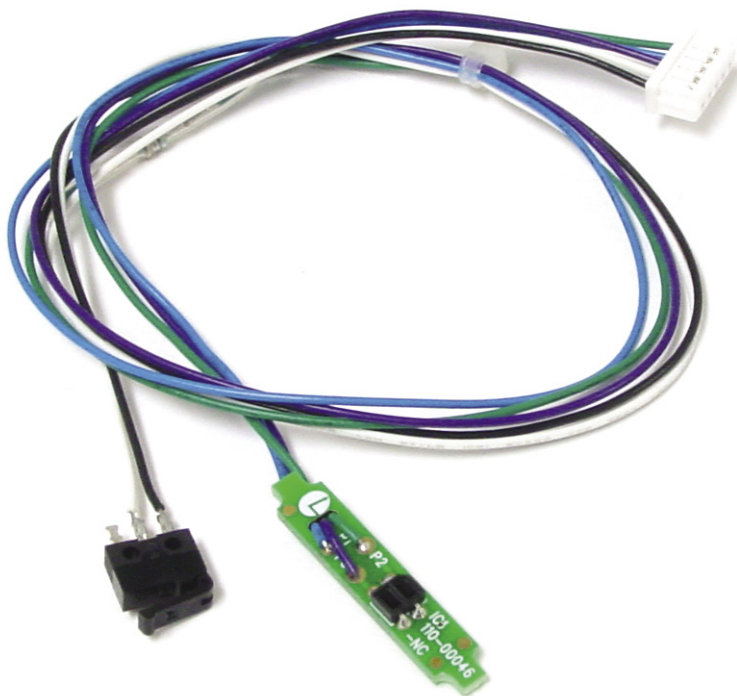
EXAMPLE PART NUMBERS:

Build to Order

Minimum Quantity: 1000 Pieces

Electrical Assemblies

In addition to providing you switches, Lamb Industries can be your sub-assembler. We offer extremely competitive pricing on wiring harness and board assembly. Let us take the hassles out of sourcing, quality control, assembly and shipping. You will find that we can deliver to you ready-to-use sub-assemblies faster, more reliably and less expensively than you can make them yourself.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Other Available Switches



Rotary
Snap Action
DIP Rotary
Trigger
Electromagnetic
Detector
Circuit Breaker
Leaf
Keylock
Door
Interlock
Reed

Custom Engineering and Value Added Services

MARKING STYLES AND COLORS:

With very low minimum order quantities, inexpensive tooling costs, and little or no increase in piece price custom markings are an inexpensive means of unifying your design elements, branding, and/or describing the function of a switch.

PLASTIC COLORS:

Maybe our standard white or black colors do not *exactly* match your product housing. We can fix that. Given sufficient quantities and time, we have the capability of producing almost any color.

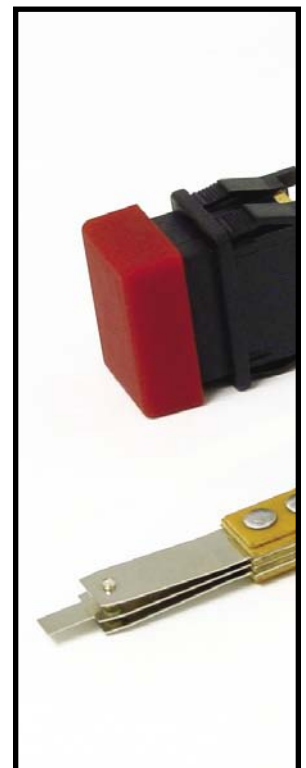
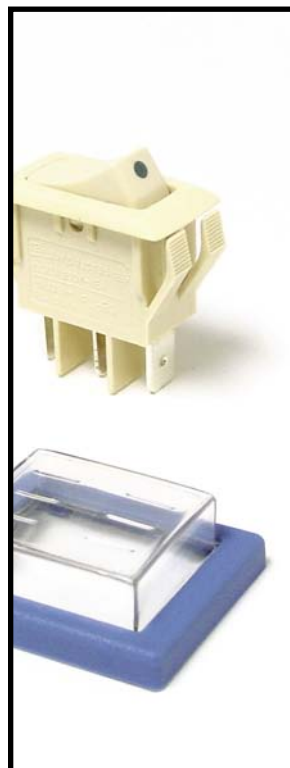
TERMINALS, CONNECTORS, AND WIRING HARNESES:

Having Lamb's factory install custom terminals, connectors, or wiring harnesses can save you money by reducing the number of parts you have to inventory, and by decreasing both assembly time and complexity.

SWITCHES:

Having Lamb design a perfect fit solution can benefit you in many ways. Replacing a particularly complex assembly can dramatically reduce the assembly time and overall costs, while improving performance and reliability.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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Buyer within this warranty period must give LI notice of any defect claim and promptly return the product prepaid after first receiving LI authorization to return. LI will at its sole discretion thereafter either repair or replace such product found to be defective herein. This warranty does not include nor does LI assume responsibility for defects or damage caused by mis-use, abuse, service or repair by others and normal wear and tear. This warranty is given in lieu of and excluding all other warranties, expressed or implied, including those of merchantability or fitness for a particular purpose. The remedies stated herein are exclusive remedies and LI shall not be responsible or liable for any indirect, consequential or incidental damages or further loss of any kind whatsoever.

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Catalog Version: D01

