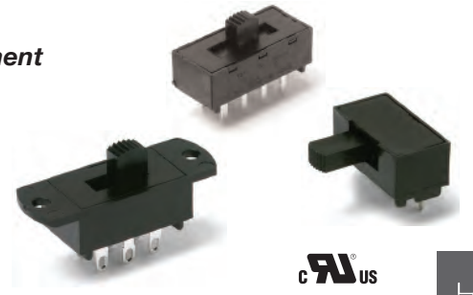
L Series
Miniature Slide Switches

Features/Benefits

- ***Positive detent***
- ***Enclosed housing***
- ***Maintained and momentary functions***
- ***PC and panel mounting***
- ***RoHS compliant***

Typical Applications

- ***Communications equipment***
- ***Lighting devices***



Models Available

Specifications

CONTACT RATING: Q contact material (LX0X, LX1X Models): 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL). See page I-23 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10^9 Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to +65°C

STORAGE TEMPERATURE: -30°C to +85°C

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Materials

HOUSING: 6/6 nylon (UL94V-2), black.

ACTUATOR: 6/6 nylon (UL94V-2), black. '13' actuator, natural (standard).

CONTACTS: Q contact material: Copper, silver plated. See page I-23 for additional contact materials.

TERMINALS: Q contact material: Copper, silver plated. See page I-23 for additional contact materials.

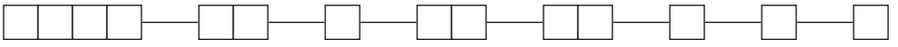
CONTACT SPRING: Music wire or stainless steel.

TERMINAL SEAL: Epoxy.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages I-20 through I-24. For additional options not shown in catalog, consult Customer Service Center.



Switch Function
- L202 DPDT
- L203 DP3T
- L101 SPST
- L102 SPDT
- L103 SP3T
- L104 SP4T
- L112 SPDT, mom.
- L113 SP3T, mom. to one end
- L123 SP3T, mom. to both ends
- L201 DPST
- L204 DP4T
- L212 DPDT, mom.

Actuator
- 01 .200" high
- 02 .335" high
- 03 .375" high
- 05 .312" high
- 11 .100" high
- 12 Screwdriver slot
- 13 Plunger without cap
- 14 Plunger with .200" dia. cap
- 15 Plunger with .310" dia. cap
- 17 Plunger with .458" dia. cap
- 19 Plunger with .590" dia. cap

Detent
- 1 With detent
- 2 Without detent

Mounting Style
- MS PC Thru-hole
- MA Right angle, PC thru-hole
- ML Right angle, PC thru-hole
- MV Right angle, PC thru-hole
- SS Panel with mounting ears
- TS Panel with integral mounting ears

Terminations
- 02 PC Thru-hole
- 01 Solder lug with notch
- 03 Solder lug with hole
- 04 PC Thru-hole
- 10 PC Thru-hole
- 06 Wire wrap
- 12 PC Thru-hole

Contact Material
- Q Silver
- B Gold
- G Gold over silver

Seal
- NONE No seal
- E Epoxy seal

Cap Color
- 2 Black
- NONE No cap

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

L Series
Miniature Slide Switches

SWITCH AND LOCK FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
SP	L101	SPST	1 2	ML, MS, SS
	L102	SPDT	1 2 3	ML, MS, SS
	L112	SPDT-MOM.	1 2 3	ML, MS,MV, SS
	L103	SP3T	1 2 3 4	MA, MS, TS
	L113	SP3T-MOM. to one end	1 2 3 4	MA, MS, TS
	L123	SP3T-MOM. to both ends	1 2 3 4	MA, MS, TS
	L104	SP4T	1 2 3 4 5	MS

NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
DP	L201	DPST	1 2 / 4 5	MA, MS, SS
	L202	DPDT	1 2 3 / 4 5 6	MA, MS, SS
	L212	DPDT-MOM.	1 2 3 / 4 5 6	MV
	L203	DP3T	1 2 3 4 / 5 6 7 8	MS, TS
	L204	DP4T	1 2 3 4 5 / 6 7 8 9 10	MS

NOTE: ▭ and MOM. in table indicates momentary action.

All models cULus with all options when ordered with 'G' or 'Q' contact material.

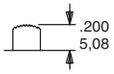
Contacts make on side actuator thrown.

ACTUATOR

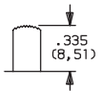
CAP COLOR / ACTUATOR

ACTUATOR OPTIONS FOR 'MS, MA, ML, SS, & TS' MOUNTING STYLES

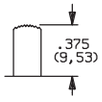
01 .200" HIGH



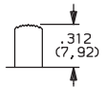
02 .335" HIGH



03 .375" HIGH



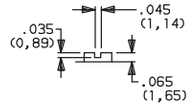
05 .312" HIGH



11 .100" HIGH



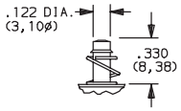
12 SCREWDRIVER SLOT



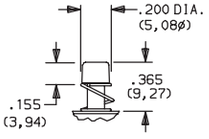
NOTE: No actuator color option code is required. Standard actuator color is black, other colors and heights available, consult Customer Service Center.
See pages I-20 and I-22 for available mounting styles.

ACTUATOR OPTIONS FOR 'MV' MOUNTING STYLE

13 PLUNGER WITHOUT CAP

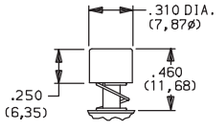


14 PLUNGER WITH CAP



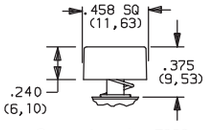
Cap part number 7089

15 PLUNGER WITH CAP



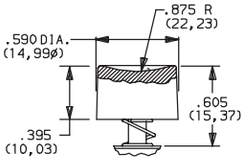
Cap part number 8018

17 PLUNGER WITH CAP



Cap part number 7982

19 PLUNGER WITH CAP



Cap part number 8940

OPTION CODE	ACTUATOR CAP COLORS
2	BLACK
NONE	01-13 ACTUATORS

Other colors available,
consult Customer Service Center.

ACTUATOR CAPS

Caps supplied are not installed standard. To order actuator options '14 thru 19,' select desired cap color from chart and place option code in last box of ordering format. Leave box empty for all other actuator options. Caps may also be ordered separately and user installed, see pages I-23 and I-24. Specify the four digit part number and desired cap color. For switches without caps, order '13' or '23' actuator option. Cap finish: gloss (excluding square cap part number 7982, finish: matte).

SPLASH CAPS

New protective splash caps for PC mounted slide switches are available separately and reusable. They provide splash protection during soldering and cleaning processes. To order specify correct part number, see page I-24.

Third Angle Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

DETENT

1 WITH DETENT

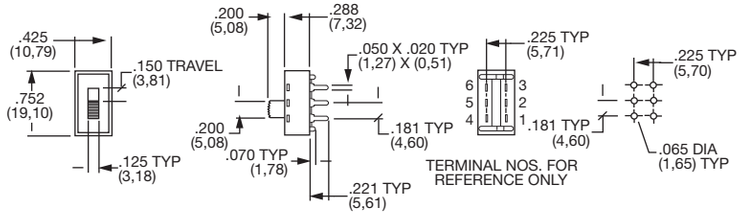
Standard with all maintained models: L101, L102, L103, L104, L113, L201, L202, L203 and L204.

2 WITHOUT DETENT

Standard with all momentary models: L112, L123, and L212.

MOUNTING STYLE

MS PC THRU-HOLE, 2 POSITION MODELS



AVAILABLE WITH:

Models: L101, L102, L112, L103, L113 L123, L201, L202, L203, L104 and L204
Terminations: 02, 06, 10 and 12
Actuators: 01, 02, 03, 05, 11 and 12

PC MOUNTING

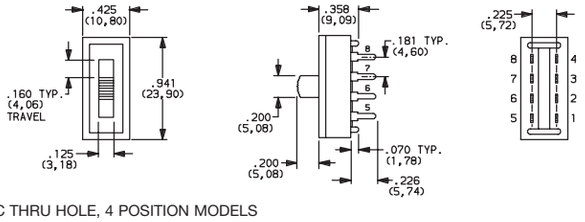
For mounting information, see TERMINATIONS section, page I-23.

Splash caps are available separately and reusable, see page I-24.

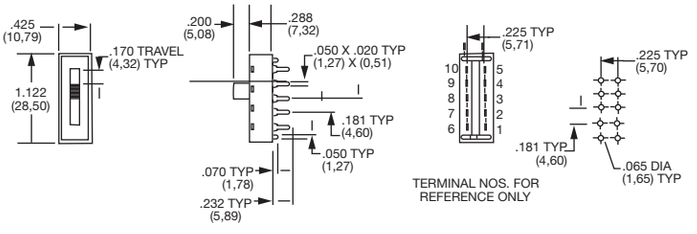


L203011MS02Q
DP3T

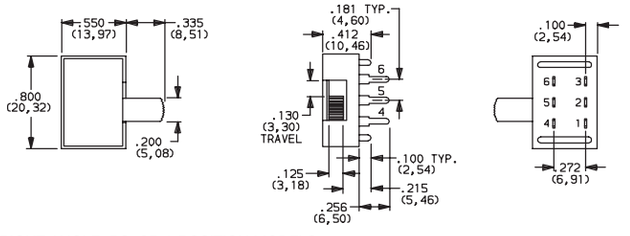
PC THRU-HOLE, 3 POSITION MODELS



PC THRU HOLE, 4 POSITION MODELS



MA RIGHT ANGLE, PC THRU-HOLE



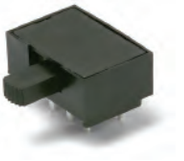
AVAILABLE WITH:

Models: L103, L201, L202, L113 and L123
Terminations: 04
Actuators: 02 and 12

PC MOUNTING

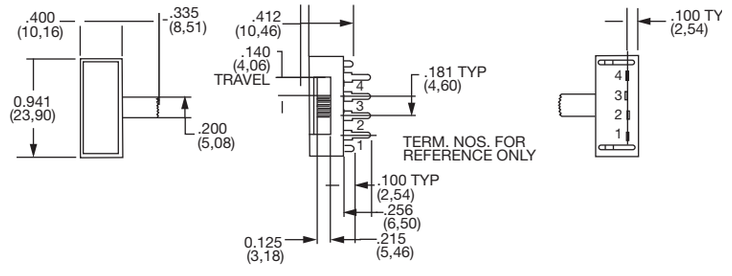
For mounting information, see TERMINATIONS section, page I-23.

Splash caps are available separately and reusable, see page I-24.



L202021MA04Q
Horizontal Actuation
DPDT

RIGHT ANGLE, PC, SP-3 POSITION MODELS



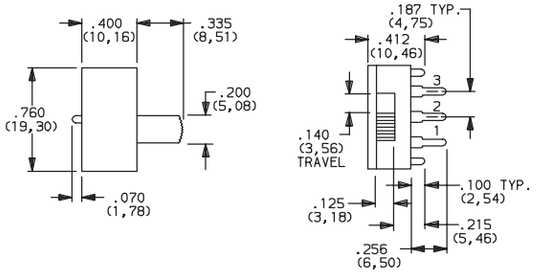
Third Angle Projection

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

L Series
Miniature Slide Switches

MOUNTING STYLE

ML RIGHT ANGLE, PC THRU-HOLE



AVAILABLE WITH:

Models: L101, L102, L112
Terminations: 04
Actuators: 01, 02, 05, 11 and 12
PC MOUNTING

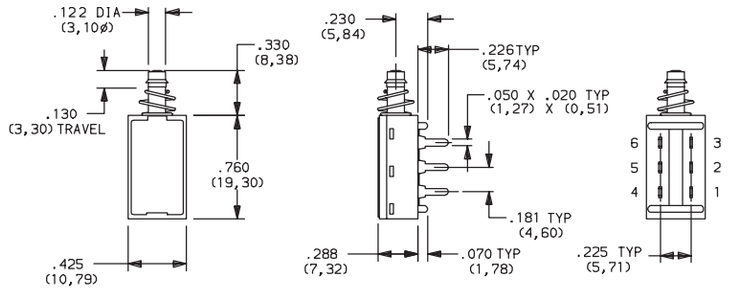
For mounting information, see TERMINATIONS section, page I-23.

Splash caps are available separately and reusable, see page I-24.



L102021ML04Q
Horizontal Actuation
SPDT

MV RIGHT ANGLE, PC THRU-HOLE



AVAILABLE WITH:

Models: L112 and L212
Terminations: 02, 06, 10 and 12
Actuators: 13 thru 19

PC MOUNTING

For mounting information, see TERMINATIONS section, page I-23.

Splash caps are available separately and reusable, see page I-24.

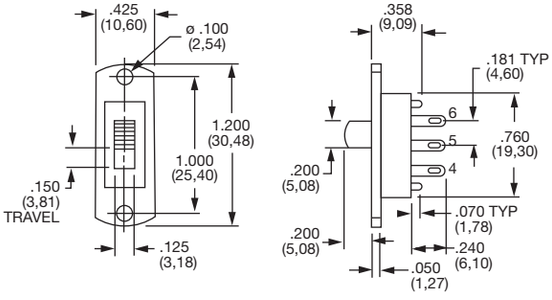


L212132MV02Q
DPDT

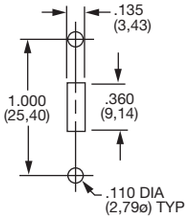
SS PANEL WITH MOUNTING EARS



L202011SS03Q
DPDT



PANEL MOUNTING



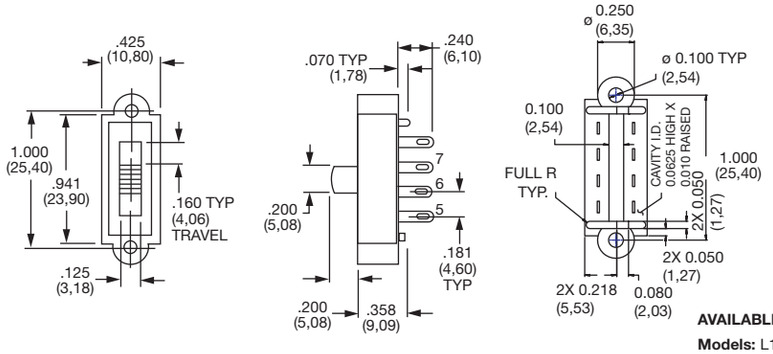
AVAILABLE WITH:

Models: L101, L102, L112, L201 and L202
Terminations: 01, 02, 03, 06, 10, 12
Actuators: 01, 02, 03, 05, 11 and 12

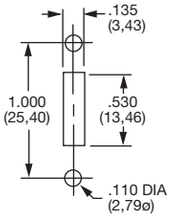
TS PANEL WITH INTEGRAL MOUNTING EARS



L203011TS03Q
DP3T



PANEL MOUNTING



AVAILABLE WITH:

Models: L103, L113, L123 and L203
Terminations: 01, 02, 03, 06, 10, 12
Actuators: 01, 02, 03, 05, 11 and 12

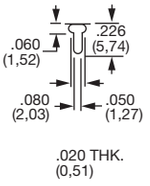
Third Angle Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

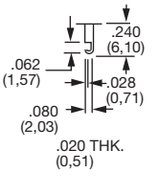
TERMINATIONS

'MS, MV, SS & TS' Mounting Styles Only

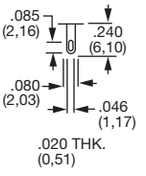
02 PC THRU-HOLE



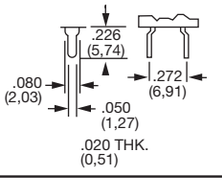
01 SOLDER LUG WITH NOTCH



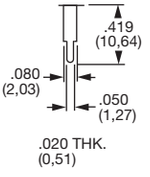
03 SOLDER LUG WITH HOLE



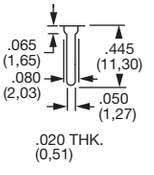
10 PC THRU-HOLE



12 PC THRU-HOLE

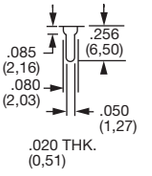


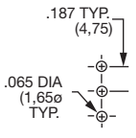
06 WIRE WRAP



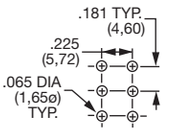
'MA & ML' Mounting Styles Only

04 PC THRU-HOLE

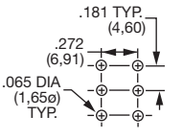




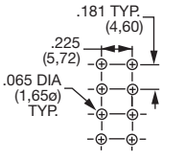
All models with '04' terminations and 'ML' mounting style.



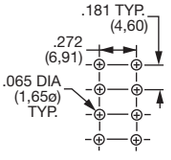
All 2 position models, except '04' and '10' terminations.



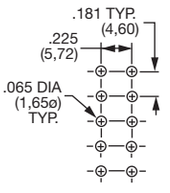
All 2 position models with '04' and '10' terminations.



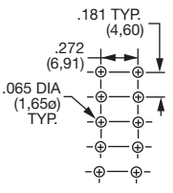
All 3 position models except '04' and '10' terminations.



All 3 position models, with '10' termination.



All 4 position models, except '04' and '10' terminations.



All 4 position models, with '10' terminations.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	RATINGS	
Q	SILVER [2]	LOW LEVEL/DRY CIRCUIT	LX0X, LX1X MODELS: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL). LX6X MODELS: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL).
B	GOLD [1]	POWER	0.4 VA MAX. @20 V AC OR DC max.
G	GOLD OVER SILVER [3]	LOW LEVEL/DRY CIRCUIT OR POWER	LX0X, LX1X MODELS: 0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL). LX6X MODELS: 0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL).

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

[1] CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

[2] CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

[3] CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

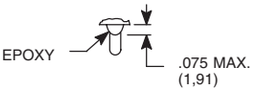
All models c UL us with all options when ordered with 'G' or 'Q' contact material.

NOTE: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.

SEAL

NONE NO SEAL

E EPOXY SEAL

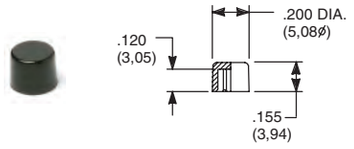


Third Angle Projection

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

AVAILABLE HARDWARE

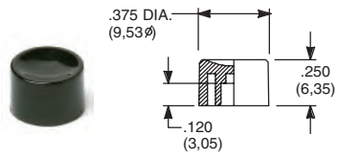
Cap
Compatible with 13-19 actuators



PART NO.
708902000 BLACK
708903000 RED

Material: Nylon
Finish: Gloss

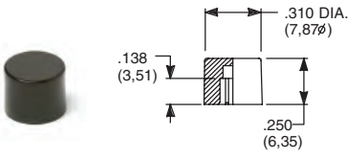
Cap
Compatible with 13-19 actuators



PART NO.
752702000 BLACK
752703000 RED

Material: Nylon
Finish: Gloss

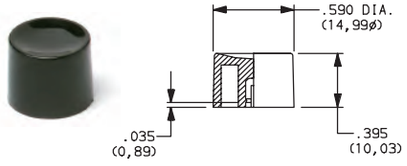
Cap
Compatible with 13-19 actuators



PART NO.
801802000 BLACK
801803000 RED

Material: Nylon
Finish: Gloss

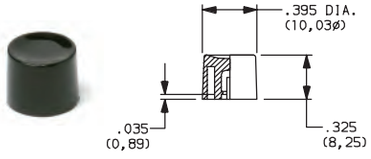
Cap
Compatible with 13-19 actuators



PART NO.
452D02000 BLACK
452D03000 RED

Material: Nylon
Finish: Gloss

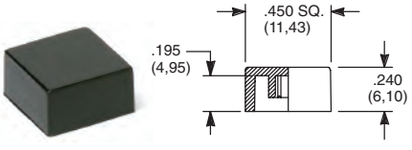
Cap
Compatible with 13-19 actuators



PART NO.
894102000 BLACK
894103000 RED

Material: Nylon
Finish: Gloss

Cap
Compatible with 13-19 actuators



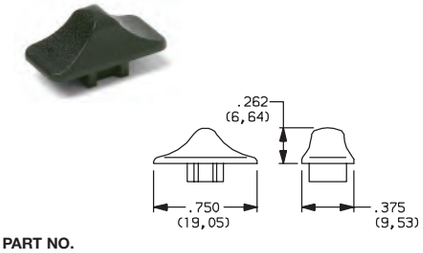
PART NO.
484602000 BLACK
484603000 RED

Material: Nylon
Finish: Gloss

PART NO.
798202263 BLACK
798203000 RED

Material: Nylon
Finish: Matte

Cap
Compatible with 01-05 actuators



PART NO.
120100602 BLACK

Material: Nylon
Finish: Matte

Splash Cap



Fits 'MS' mounting style,
LXX1 & LXX2 models only.

PART NO.
120100200

Material: Nylon

Splash Cap



Fits 'MV' mounting style,
LX1X models only.

PART NO.
120100300

Material: Nylon

Splash Cap



Fits 'MA' mounting style,
LXX3 models only.

PART NO.
120100400

Material: Nylon

NOTE: Other colors available,
consult Customer Service Center.

Third Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change