

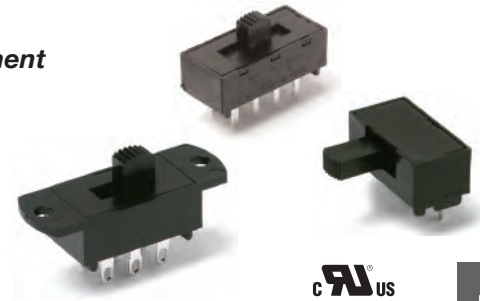
L Series Miniature Slide Switches

Features/Benefits

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

Typical Applications

- Communications equipment
- Lighting devices



C&K US
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: 10⁹ 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

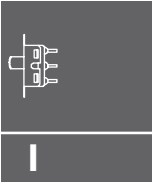
NONE No seal
E Epoxy seal

Cap Color

2 Black
NONE No cap



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



Slide

L Series
Miniature Slide Switches

SWITCH AND LOCK FUNCTION

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

NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
DP	L201	DPST		MA, MS, SS
	L202	DPDT		MA, MS, SS
	L212	DPDT-MOM.		MV
	L203	DP3T		MS, TS
	L204	DP4T		MS

NOTE: and MOM. in table indicates momentary action.
All models with all options when ordered with 'G' or 'Q' contact material.
Contacts make on side actuator thrown.

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.



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



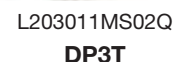
DETENT

- ## MOUNTING STYLE

.425 (10,79)
 .752 (19,10)
 .150 TRAVEL (3,81)
 .125 TYP (3,18)
 .200 (5,08)
 .288 (7,32)
 .050 X .020 TYP (1,27) X (0,51)
 .225 TYP (5,71)
 .181 TYP (4,60)
 .221 TYP (5,61)
 .070 TYP (1,78)
 .200 (5,08)
 .225 TYP (5,70)
 .065 DIA (1,65) TYP
 6 3
 5 2
 4 1
 TERMINAL NOS. FOR REFERENCE ONLY

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

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



Slide

Technical drawing of a 10-pin connector showing side and end views with dimensions in inches and millimeters.

Side View Dimensions:

- Overall width: .425 (10,79)
- Internal width: .170 TRAVEL (4,32) TYP
- Pin pitch: .050 X .020 TYP (1,27) X (0,51)
- Pin diameter: .065 DIA (1,65) TYP
- Pin length: .181 TYP (4,60)
- Pin spacing: .070 TYP (1,78)
- Pin diameter: .232 TYP (5,89)

End View Dimensions:

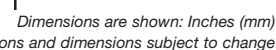
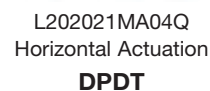
- Overall width: .288 (7,32)
- Pin pitch: .050 X .020 TYP (1,27) X (0,51)
- Pin diameter: .065 DIA (1,65) TYP
- Pin length: .181 TYP (4,60)
- Pin spacing: .070 TYP (1,78)
- Pin diameter: .232 TYP (5,89)

Terminal Nos. for Reference Only:

- Terminal 1: .225 TYP (5,71)
- Terminal 2: .225 TYP (5,71)
- Terminal 3: .225 TYP (5,71)
- Terminal 4: .225 TYP (5,71)
- Terminal 5: .225 TYP (5,71)
- Terminal 6: .225 TYP (5,71)
- Terminal 7: .225 TYP (5,71)
- Terminal 8: .225 TYP (5,71)
- Terminal 9: .225 TYP (5,71)
- Terminal 10: .225 TYP (5,71)

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

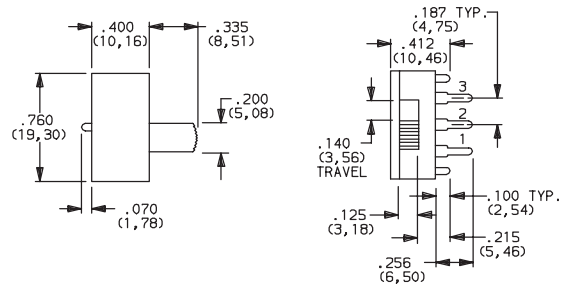
Splash caps are available separately
and reusable, see page I-24.



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

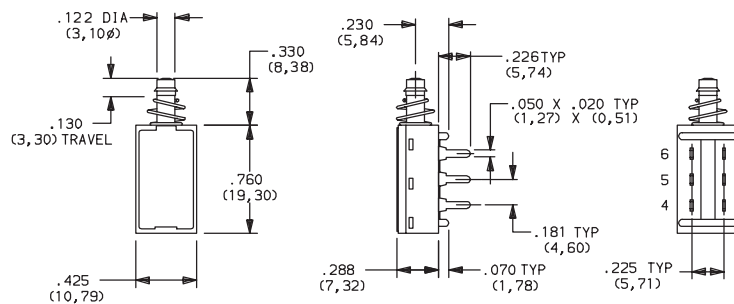
For mounting information, see TERMINATIONS section, page I-23.

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.

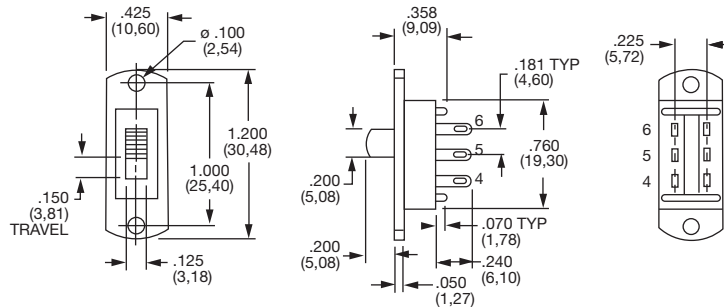


L212132MV02Q
DPDT

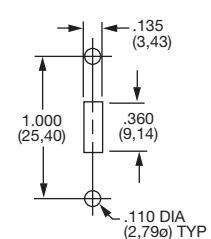
SS PANEL WITH MOUNTING EARS



L202011SS03Q
DPDT



PANEL MOUNTING



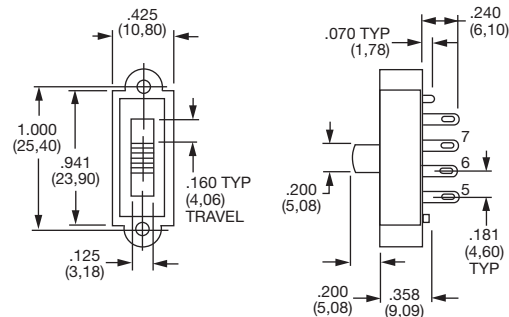
AVAILABLE WITH:

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

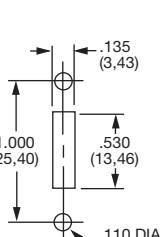
TS PANEL WITH INTEGRAL MOUNTING EARS



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



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



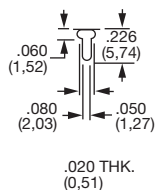
L Series Miniature Slide Switches

TERMINATIONS

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

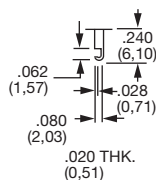
02

PC THRU-HOLE



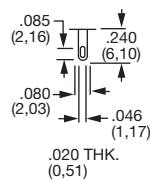
01

SOLDER LUG WITH NOTCH



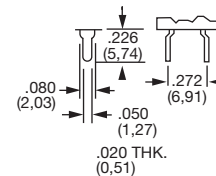
03

SOLDER LUG WITH HOLE



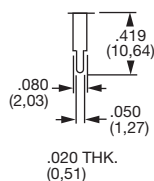
10

PC THRU-HOLE



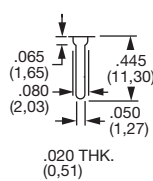
12

PC THRU-HOLE



06

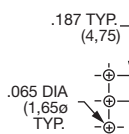
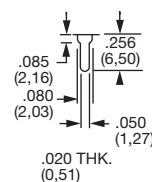
WIRE WRAP



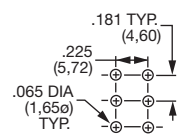
'MA & ML' Mounting Styles Only

04

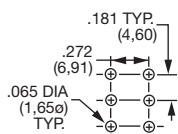
PC THRU-HOLE



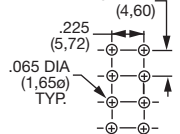
All models with '04' terminations and 'ML' mounting style.



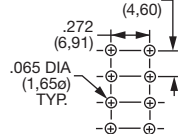
All 2 position models, except '04' and '10' terminations.



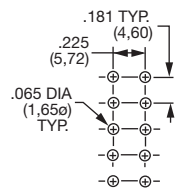
All 2 position models with '04' and '10' terminations.



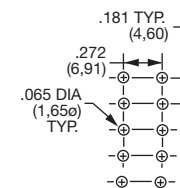
All 3 position models except '04' and '10' terminations.



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

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

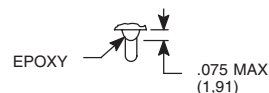
SEAL

NONE

NO SEAL

E

EPOXY SEAL



Third Angle
Projection

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

C&K

L Series Miniature Slide Switches

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.	



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