

C&K 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



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/CSA). 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: $10^9 \Omega$ 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 J-22 for additional contact materials.

TERMINALS: Q contact material: Copper, silver plated. See page J-22 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. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

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 J-19 through J-23. For additional options not shown in catalog, consult Customer Service Center.

Switch Function		Actuator		Detent		Mounting Style		Terminations		Contact Material		Seal		Cap Color	
L202	DPDT	01	.200" high	1	With detent	MS	PC Thru-hole	02	PC Thru-hole	Q	Silver	NONE	No seal	2	Black
L203	DP3T	02	.335" high	2	Without detent	MA	Right angle, PC thru-hole	01	Solder lug with notch	B	Gold	E	Epoxy seal	NONE	No cap
L101	SPST	03	.375" high			ML	Right angle, PC thru-hole	03	Solder lug with hole	G	Gold over silver				
L102	SPDT	05	.312" high			MV	Right angle, PC thru-hole	04	PC Thru-hole						
L103	SP3T	11	.100" high			SS	Panel with mounting ears	10	PC Thru-hole						
L104	SP4T	12	Screwdriver slot			TS	Panel with integral mounting ears	06	Wire wrap						
L112	SPDT, mom.	13	Plunger without cap					12	PC Thru-hole						
L113	SP3T, mom. to one end	14	Plunger with .200" dia. cap												
L123	SP3T, mom. to both ends	15	Plunger with .310" dia. cap												
L201	DPST	17	Plunger with .458" dia. cap												
L204	DP4T	19	Plunger with .590" dia. cap												
L212	DPDT, mom.														



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

C&K 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.

Models with '01' termination option only.

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 J-20 and J-22 for available mounting styles.

ACTUATOR OPTIONS FOR 'MV' MOUNTING STYLE

13 PLUNGER WITHOUT CAP	14 PLUNGER WITH CAP	15 PLUNGER WITH CAP
	Cap part number 7089	Cap part number 8018
17 PLUNGER WITH CAP	19 PLUNGER WITH CAP	
Cap part number 7982	Cap part number 8940	

OPTION CODE	ACTUATOR CAP COLORS
2	BLACK
NONE	01-13, 23 ACTUATORS

Other colors available, consult Customer Service Center.

ACTUATOR CAPS

Caps supplied are not installed standard. To order actuator options '14 thru 29,' 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 J-23 and J-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 J-23.



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C&K L Series Miniature Slide Switches

DETENT

1 WITH DETENT

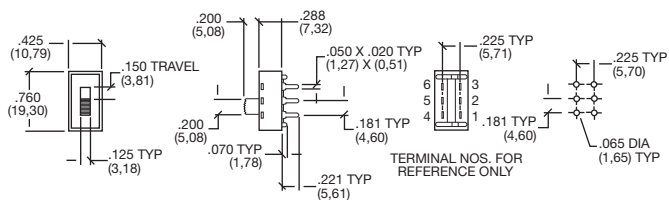
Standard with all maintained models: L101, L102, L103, L104, L113, L201, L202, L203 and L204.

2 WITHOUT DETENT

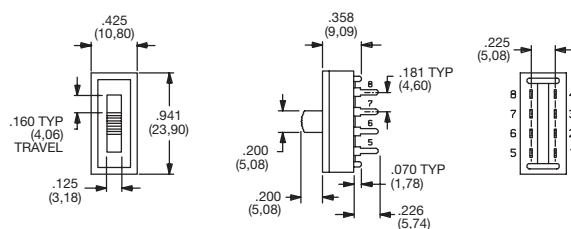
Standard with all momentary models: L112, L123, and L212.

MOUNTING STYLE

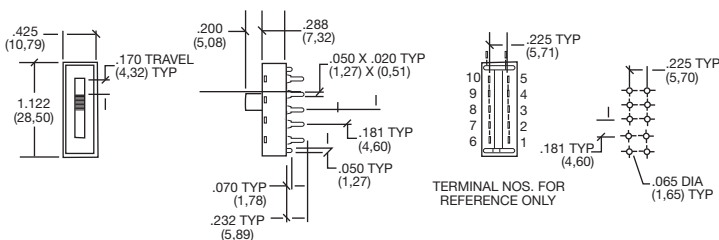
MS PC THRU-HOLE, 2 POSITION MODELS



PC THRU-HOLE, 3 POSITION MODELS



PC THRU HOLE, 4 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

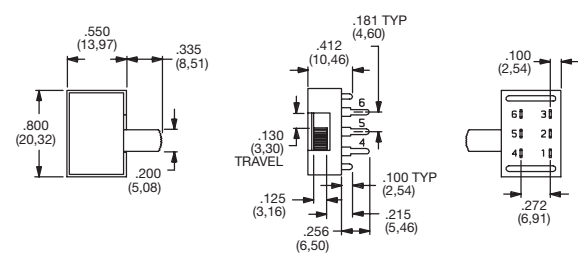
PC MOUNTING

For mounting information, see
TERMINATIONS section, page J-21.
Splash caps are available separately
and reusable, see page J-23.

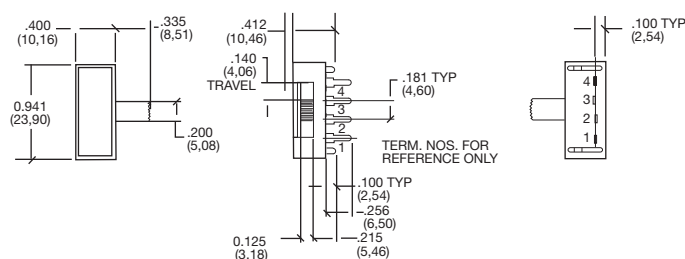


L203011MS02Q
DP3T

MA RIGHT ANGLE, PC THRU-HOLE



RIGHT ANGLE, PC, SP-3 POSITION MODELS

**AVAILABLE WITH:**

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

PC MOUNTING

For mounting information, see
TERMINATIONS section, page J-21.

Splash caps are available separately
and reusable, see page J-23.



L202021MA04Q
Horizontal Actuation
DPDT

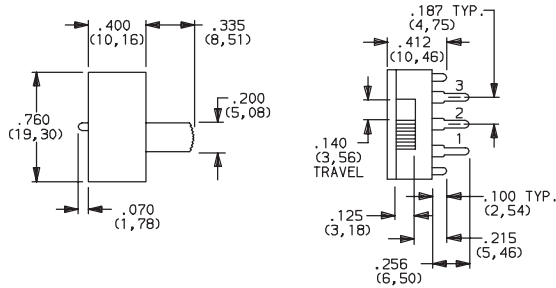


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C&K L Series Miniature Slide Switches

MOUNTING STYLE

ML RIGHT ANGLE, PC THRU-HOLE



AVAILABLE WITH:

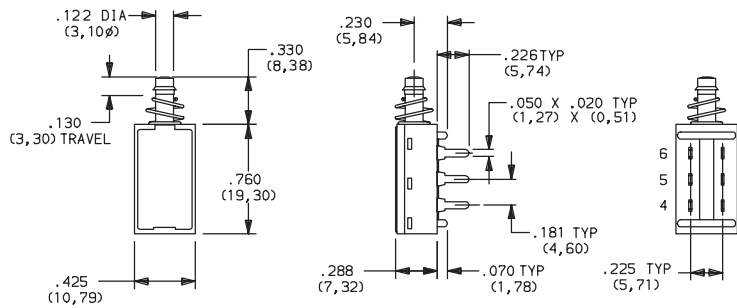
Models: L101, L102, L112
Terminations: 04
Actuators: 01, 02, 05, 11 and 12
PC MOUNTING

For mounting information, see TERMINATIONS section, page J-21.
 Splash caps are available separately and reusable, see page J-23.



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 J-21.
 Splash caps are available separately and reusable, see page J-23.

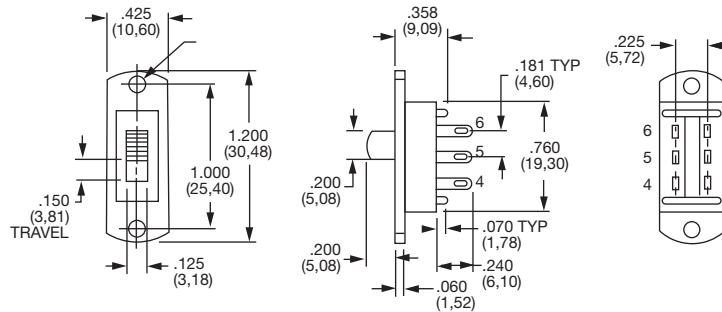


L212132MV02Q
DPDT

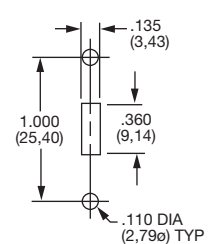
SS PANEL WITH MOUNTING EARS



L202011SS03Q
DPDT



PANEL MOUNTING



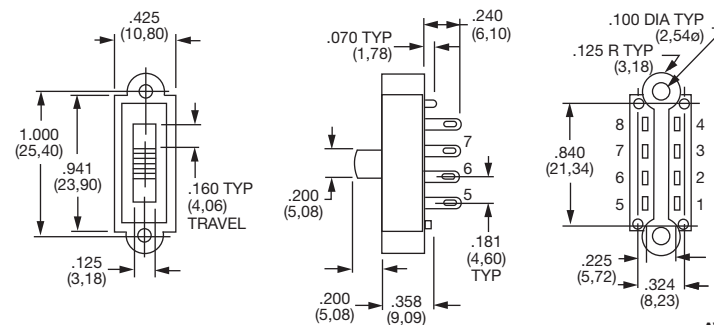
AVAILABLE WITH:

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

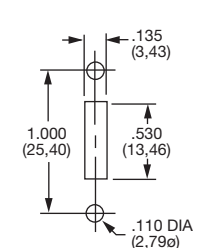
TS PANEL WITH INTEGRAL MOUNTING EARS



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



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TERMINATIONS



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

02

PC THRU-HOLE

01

SOLDER LUG WITH NOTCH

'01' terminations only.

03

SOLDER LUG WITH HOLE

10

PC THRU-HOLE

12

PC THRU-HOLE

06

WIRE WRAP

04

PC THRU-HOLE

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

All 2 position models, except '04' terminations.

All 2 position models with '04' terminations and 'MA' mounting style.

All 2 position models with '04' terminations and 'MA' mounting style.

All 3 position models, except '04' terminations.

All 3 position models, with '10' terminations.

All 4 position models, with '10' terminations.

CONTACT MATERIAL



OPTION CODE	RoHS COMPLIANT	RoHS COMPLIANT	CONTACT MATERIAL	RATINGS	
Q	YES	YES	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/CSA). LX6X MODELS: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
B	YES	YES	GOLD ¹	POWER	0.4 VA MAX. @20 V AC OR DC max.
G	YES	YES	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/CSA). 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/CSA).

* 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. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

All models with all options (except '01' termination) when ordered with 'G' or 'Q' contact material.

Models with '01' termination option only.

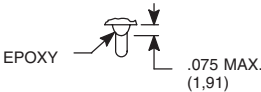
NOTE: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.

SEAL



NONE NO SEAL

E EPOXY SEAL



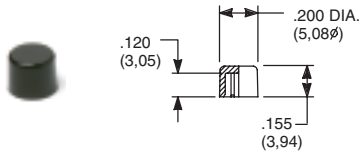
Dimensions are shown: Inch (mm)
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AVAILABLE HARDWARE

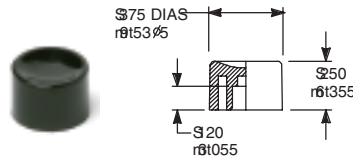
Cap
Compatible with 13-19 actuators



PART NO.
708902000 BLACK
708903000 RED

Material: Nylon
Finish: Gloss

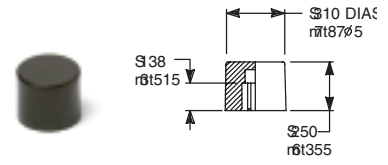
Cap
Compatible with 13-19 actuators



PART NO.
752702000 BLACK
752703000 RED

Material: Nylon
Finish: Gloss

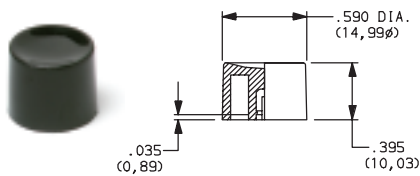
Cap
Compatible with 13-19 actuators



PART NO.
801802000 BLACK
801803000 RED

Material: Nylon
Finish: Gloss

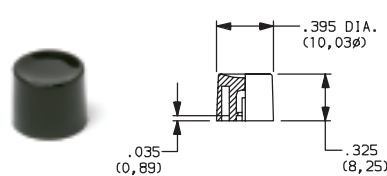
Cap
Compatible with 13-19 actuators



PART NO.
894002000 BLACK
894003000 RED

Material: Nylon
Finish: Gloss

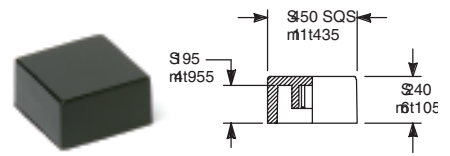
Cap
Compatible with 13-19 actuators



PART NO.
894102000 BLACK
894103000 RED

Material: Nylon
Finish: Gloss

Cap
Compatible with 13-19 actuators



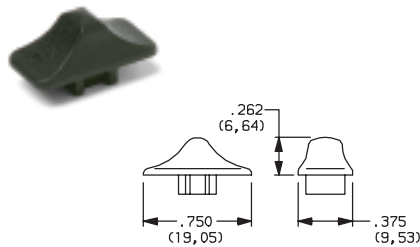
PART NO.
484602000 BLACK
484603000 RED

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.



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