

# LP Series

## Miniature Snap-in Slide Switches

### Features/Benefits

- 6 to 11 AMPS available
- Easy assembly—Snap-in mounting
- Contamination resistant—extended actuator
- Positive detent
- RoHS compliant

### Typical Applications

- Small appliances
- Outdoor appliances
- Portable tools



Models Available

### Specifications

CONTACT RATING: Q contact material (LP0X, LP2X Models: 6 AMPS @ 125 V AC or 28 V DC; 3 AMPS @ 250 V AC (UL/CSA). (LP7X, LP8X Models): 11 AMPS @ 125/250 V AC (UL/CSA). See page I-27 for additional ratings.

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

INSULATION RESISTANCE:  $10^9 \Omega$  min.

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

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

OPERATING TEMPERATURE: -30°C to +65°C

STORAGE TEMPERATURE: -30°C to +85°C

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

**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: Glass filled acetal, UV and petroleum resistant, black.

CONTACTS: Q contact material: Copper, silver plated. See page I-27 for additional contact materials.

TERMINALS: Q contact material: Copper, silver plated. See page I-27 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

TERMINAL SEAL: Epoxy.

### 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-26 and I-27. For additional options not shown in catalog, consult Customer Service Center.

|                                                                                                          |                                                              |                                |                                                                                |                                                |                                                         |                                               |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------|-----------------------------------------------|
| <b>Switch Function</b><br>LP22 DPDT, 6 AMP<br>LP02 SPDT, 6 AMP<br>LP81 DPST, 11 AMP<br>LP82 DPDT, 11 AMP | <b>Actuator</b><br>C2 Black cap<br>C1 Whitecap<br>C3 Red cap | <b>Detent</b><br>1 With detent | <b>Mounting Style</b><br>T2 Snap-in panel with tabs<br>(D, L, N markings only) | <b>Terminations</b><br>03 Solder lug with hole | <b>Housing Markings</b><br>NONE No markings<br>D ON-OFF | <b>Contact Material</b><br>Q Silver<br>B Gold |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------|-----------------------------------------------|



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

# LP Series

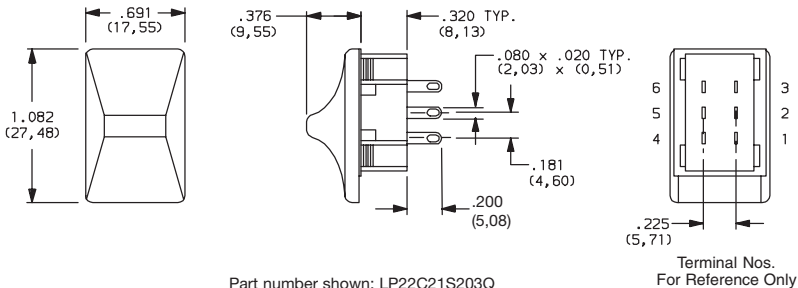
## Miniature Snap-in Slide Switches

SWITCH FUNCTION

| NO. POLES | MODEL NO. | AMP RATING* | SWITCH FUNCTION | SCHEMATIC |
|-----------|-----------|-------------|-----------------|-----------|
| SP        | LP02      | 6           | SPDT            |           |

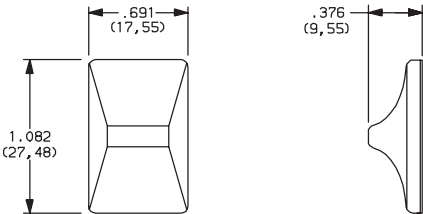
| NO. POLES | MODEL NO. | AMP RATING* | SWITCH FUNCTION | SCHEMATIC |
|-----------|-----------|-------------|-----------------|-----------|
| DP        | LP22      | 6           | DPDT            |           |
|           | LP81      | 11          | DPST            |           |
|           | LP82      | 11          | DPDT            |           |

All models **C&K** <sup>US</sup> with all options when ordered with 'Q' contact material.  
 Contacts make on side actuator thrown.  
 \* For complete contact ratings, see CONTACT MATERIALS Section, page I-27.



ACTUATOR

C1; C2; C3



| OPTION CODE2 | ACTUATOR CAP COLOR |
|--------------|--------------------|
| C2           | BLACK              |
| C1           | WHITE              |
| C3           | RED                |

**NOTE:** Actuator finish: gloss.  
 Other colors available,  
 consult Customer Service Center.

DETENT

1 WITH DETENT

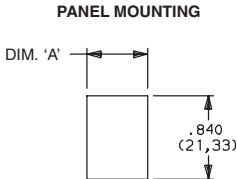
MOUNTING STYLE

T2 SNAP-IN PANEL WITH TABS



Mounting style T2 suitable for markings.  
 See HOUSING MARKINGS options.

| PANEL THICKNESS            | DIM 'A'         |
|----------------------------|-----------------|
| .030-.045<br>(0,76) (1,14) | .578<br>(14,68) |
| .046-.059<br>(1,17) (1,50) | .585<br>(14,86) |
| .060-.089<br>(1,52) (2,26) | .598<br>(15,19) |
| .090-.120<br>(2,29) (3,05) | .610<br>(15,49) |



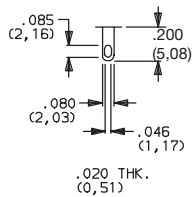
Dimensions are shown: Inch (mm)  
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# LP Series Miniature Snap-in Slide Switches

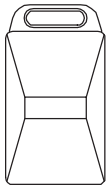
## TERMINATIONS

03 SOLDER LUG WITH HOLE

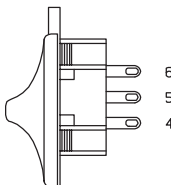
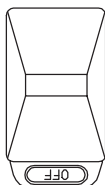
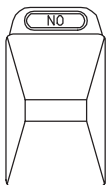


## HOUSING MARKINGS

NONE NO MARKINGS



D ON-OFF



**NOTE:** Housing markings are available with 'T2' mounting style only. The marking color on all housings with marking options 'D' is white, standard. Other marking colors are available, consult Customer Service Center.

Orientation of actuator and terminals.

## CONTACT MATERIAL

| OPTION CODE | CONTACT MATERIAL    | RATINGS               |                                                                                                                                     |
|-------------|---------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|             |                     |                       |                                                                                                                                     |
| Q           | SILVER <sup>2</sup> | POWER                 | LP0X, LP2X MODELS: 6 AMPS @ 125 V AC or 28 V DC; 3 AMPS @ 250 V AC (UL/CSA).<br>LP7X, LP8X MODELS: 11 AMPS @ 125/250 V AC (UL/CSA). |
| B           | GOLD <sup>1</sup>   | LOW LEVEL/DRY CIRCUIT | 0.4 VA MAX. @20 V AC OR DC MAX.                                                                                                     |

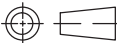
\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.
- <sup>2</sup> CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).
- <sup>3</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.

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

All models  with all when ordered with 'Q' contact material.





Third Angle Projection

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

Slide