

# 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



**CALUS**  
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.



Slide

## 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.

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



Third Angle Projection

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



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## SWITCH FUNCTION

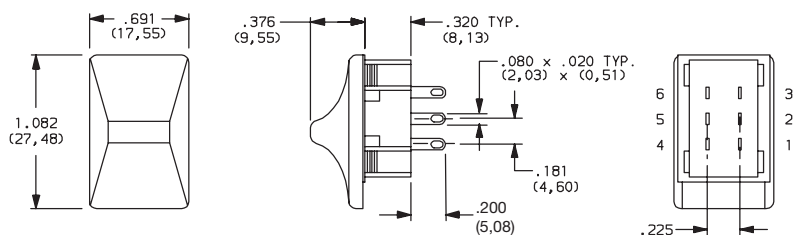


| NO. POLES | MODEL NO.   | AMP RATING* | SWITCH FUNCTION | SCHEMATIC |
|-----------|-------------|-------------|-----------------|-----------|
| SP        | <b>LP02</b> | 6           | SPDT            |           |

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

All models **C&K** 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.



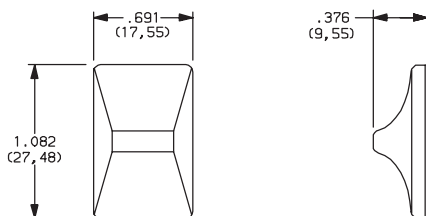
Part number shown: LP22C21S203Q

Terminal Nos.  
For Reference Only

## ACTUATOR



**C1; C2; C3**



| OPTION CODE2 | ACTUATOR CAP COLOR |
|--------------|--------------------|
| <b>C2</b>    | BLACK              |
| <b>C1</b>    | WHITE              |
| <b>C3</b>    | RED                |

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

## DETENT



**1** WITH DETENT

## MOUNTING STYLE



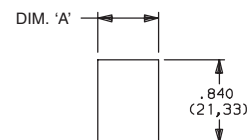
**T2** SNAP-IN PANEL WITH TABS



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) |

### PANEL MOUNTING



Third Angle  
Projection

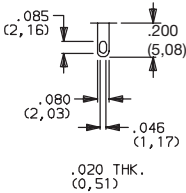
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

**C&K**

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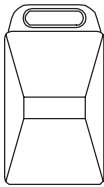
## TERMINATIONS

### 03 SOLDER LUG WITH HOLE

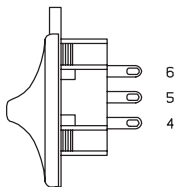
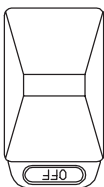
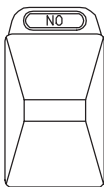


## HOUSING MARKINGS

### 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.

## CONTACT MATERIAL

| OPTION CODE | CONTACT MATERIAL    | RATINGS               |                                                                                                                                        |
|-------------|---------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|             |                     |                       |                                                                                                                                        |
| <b>Q</b>    | SILVER <sup>2</sup> | POWER                 | LP0X, LP2X MODELS: 6 AMPS @ 125 V AC or 28 V DC;<br>3 AMPS @ 250 V AC (UL/CSA).<br>LP7X, LP8X MODELS: 11 AMPS @ 125/250 V AC (UL/CSA). |
| <b>B</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.

## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

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