

# LCA Series

## Subminiature Snap-acting Switches



### Features/Benefits

- Compact design
- Long life and high electrical capacity
- Quick connect, solder terminals, PC terminals
- Wide variety of actuator styles
- RoHS compatible

### Typical Applications

- Motorized equipment
- Sump pump
- Thermostatic controls

UL61058-1



### Specifications

CONTACT RATING: From low level to 10.1 AMPS @ 125/250 V AC

ELECTRICAL LIFE: see chart below

MECHANICAL LIFE: 300,000 cycles.

INSULATION RESISTANCE: 100 M ohm min.

DIELECTRIC STRENGTH: 1,500 Vrms min. @ sea level.

OPERATING TEMPERATURE: -40°C to +125°C

OPERATING FORCE: 150 grams at actuator button MAX.

Forces are less at free end of lever actuators; (see ACTUATOR'S option sections).

MOUNTING: 2-56 screws, torque 2.3 in/lbs max.

### Materials

SWITCH HOUSING: Thermoplastic polyester

ACTUATOR BUTTON: Thermoplastic polyester.

SPRING: Copper alloy.

PIVOT: Copper alloy.

MOVABLE CONTACTS: Silver alloy

STATIONARY CONTACTS: Silver alloy

TERMINALS: Copper alloy.

ACTUATOR LEVER: Stainless steel.

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

### 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-36 thru J-39. For additional options not shown in catalog, consult Customer Service Center.

Series **LCA** SP, Mom.

Electrical Rating

Operating Force **150** 150 grams

| Option Code | UL<br>1054                 | UL<br>61058-1              | E4                         |
|-------------|----------------------------|----------------------------|----------------------------|
| <b>01</b>   | 0.1 A 125/250 V AC<br>1E4  | 0.1 A 125/250 V AC<br>1E4  | 0.1 A 125/250 V AC<br>1E4  |
| <b>06</b>   | 6 A 125/250 V AC<br>1E4    | 6 A 125/250 V AC<br>1E4    | 6 (2)A 125/250 V AC<br>1E4 |
| <b>10</b>   | 10.1 A 125/250 V AC<br>1E4 | 10.1 A 125/250 V AC<br>1E4 | 10.1 A 125/250 V AC<br>1E4 |
| <b>S5</b>   | NA                         | 5 A 125/250 V AC<br>1E5    | NA                         |

### Actuator

- P00** Pin plunger
- T05** 4.8 mm short lever
- T06** 6.8 mm lever
- T09** 8.8 mm lever
- T12** 12.9 mm lever
- T16** 15.2 mm lever
- T18** 18.1 mm lever
- T21** 20.1 mm lever
- T23** 23.4 mm lever
- T43** 43.5 mm lever
- S06** 6.0 mm simulated lever
- S09** 9.2 mm simulated lever
- A05** 5.0 mm lever roller

### Terminations

- S** Solder
- Q** .110 Quick Connect
- P** PC Thru Hole
- L** Left Form PC
- R** Right Form PC

### Circuitry

- C** SPDT
- W** SPST N.C.
- Y** SPST N.O.



Third Angle  
Projection

Dimensions are shown: mm

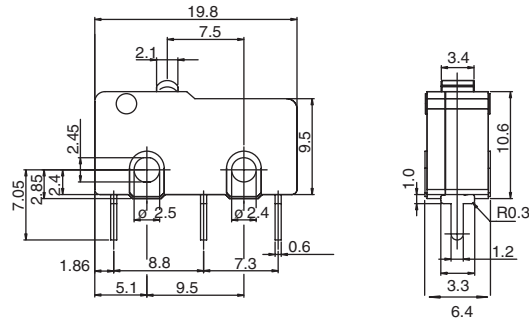
Specifications and dimensions subject to change



# LCA Series Subminiature Snap-acting Switches

SERIES 

LCA



ELECTRICAL RATING 

| RoHS COMPLIANT * | RoHS COMPATIBLE * | OPTION CODE | ELECTRICAL RATING  |
|------------------|-------------------|-------------|--------------------|
| YES              | YES               | <b>01</b>   | 0.1A, 125/250 VAC  |
| YES              | YES               | <b>06</b>   | 6A, 125/250 VAC    |
| YES              | YES               | <b>10</b>   | 10.1A, 125/250 VAC |
| YES              | YES               | <b>S5</b>   | 5A, 125/250 VAC    |

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

OPERATING FORCE 

| OPTION CODE | OPERATING FORCES (grams) |
|-------------|--------------------------|
| <b>150</b>  | 150 grams max.           |



Snap-acting

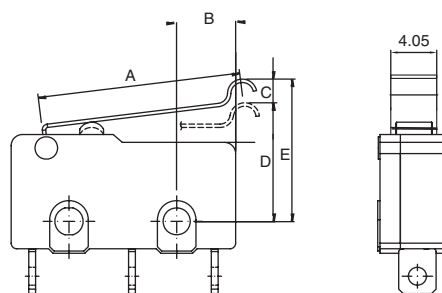
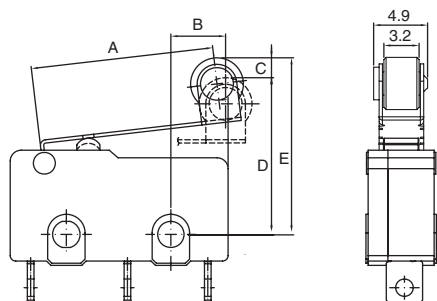
# LCA Series

## Subminiature Snap-acting Switches

ACTUATOR 

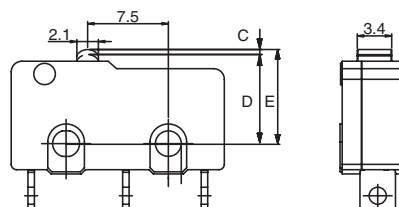
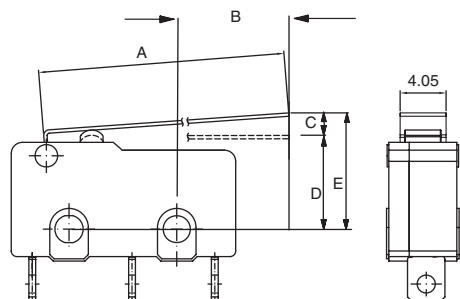
**A05** LEVER ROLLER

**SXX** SIMULATED ROLLER



**TXX** LEVER

**P00**



| ACTUATOR<br>OPTION<br>CODE | A<br>mm               | B ref.<br>mm                                 | C<br>mm                | D<br>mm               | E<br>mm                   | Diff. Motion<br>mm | Oper.<br>Force | Release<br>Force | Over<br>Travel |
|----------------------------|-----------------------|----------------------------------------------|------------------------|-----------------------|---------------------------|--------------------|----------------|------------------|----------------|
|                            | LENGTH<br>OF<br>LEVER | Lever length<br>for front mtg.<br>hole to OP | PRE<br>TRAVEL<br>(MAX) | OPERATING<br>POSITION | FREE<br>POSITION<br>(MAX) | max                | max.<br>grams  | min.<br>grams    | min.           |
| P00                        | NA                    | NA                                           | 1.10                   | 8.55 ± 0.3            | 9.35                      | 0.20               | 150            | 25               | 0.4            |
| T05                        | 16.70                 | 4.80                                         | 3.60                   | 8.95 ± 0.8            | 11.75                     | 0.80               | 50             | 6                | 0.6            |
| T06                        | 18.70                 | 6.80                                         | 4.03                   | 8.9 ± 0.9             | 12.09                     | 0.90               | 45             | 5                | 0.67           |
| T09                        | 20.60                 | 9.10                                         | 5.64                   | 9.15 ± 1.35           | 13.45                     | 1.83               | 33             | 2                | 0.75           |
| T12                        | 24.80                 | 12.90                                        | 3.35                   | 8.95 ± 1.5            | 13.10                     | 1.19               | 34             | 2                | 0.89           |
| T16                        | 27.10                 | 15.20                                        | 7.20                   | 9.15 ± 1.7            | 15.15                     | 1.30               | 40             | 1                | 0.70           |
| T18                        | 30.00                 | 18.10                                        | 7.70                   | 8.95 ± 1.9            | 14.65                     | 1.50               | 32             | 1                | 1.2            |
| T21                        | 32.00                 | 20.10                                        | 8.00                   | 8.15 ± 1.85           | 15.55                     | 1.60               | 35             | 1                | 1.0            |
| T23                        | 35.20                 | 23.40                                        | 8.60                   | 8.95 ± 2.0            | 15.55                     | 1.80               | 25             | 1                | 1.5            |
| T43                        | 55.20                 | 43.50                                        | 10.45                  | 8.95 ± 3.0            | 19.25                     | 2.90               | 15             | 1                | 1.0            |
| S06                        | 17.90                 | 6.00                                         | 3.86                   | 10.85 ± 0.9           | 17.81                     | 0.86               | 47             | 5                | 0.64           |
| S09                        | 21.10                 | 9.20                                         | 5.7                    | 16.15 ± 1.5           | 20.35                     | 1.00               | 42             | 2                | 1.0            |
| A05                        | 16.60                 | 5.00                                         | 3.8                    | 14.65 ± 0.8           | 17.65                     | 0.80               | 50             | 6                | 0.6            |



Dimensions are shown: mm

Specifications and dimensions subject to change

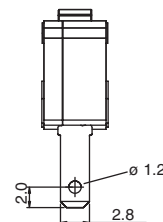
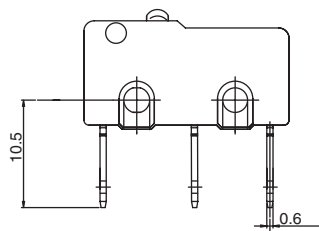
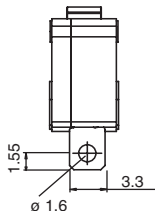
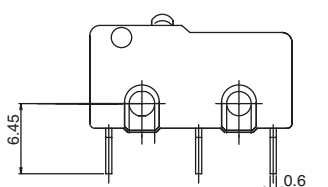
**C&K**

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## TERMINATIONS

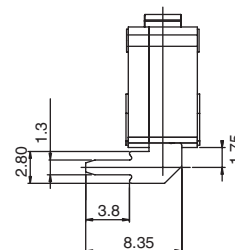
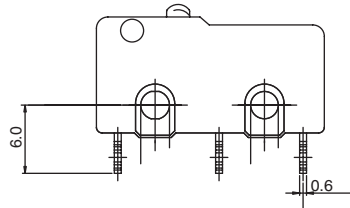
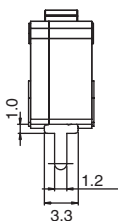
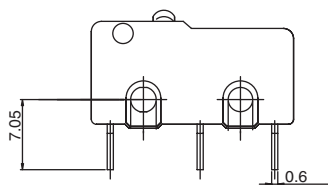
**S** SOLDER

**Q** QUICK CONNECT

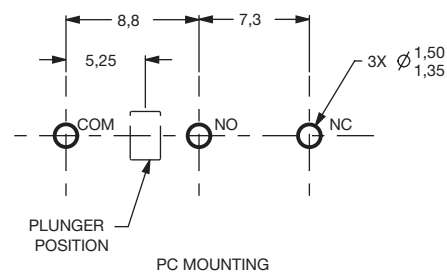
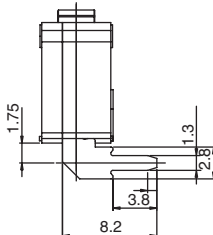
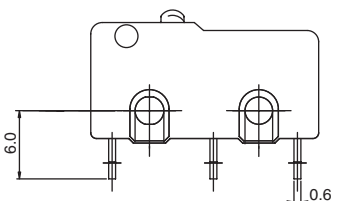


**P** PC THRU HOLE

**L** LEFT FORM PC



**R** RIGHT FORM PC



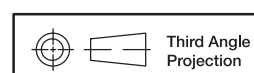
Snap-acting

## CIRCUITRY

**C** SPDT (Single Pole, Double Throw)

**W** SPST N.C. (Single Pole, Single Throw, Normally Closed)

**Y** SPST N.O. (Single Pole, Single Throw, Normally Open)



Third Angle  
Projection

Dimensions are shown: mm  
Specifications and dimensions subject to change

**C&K**

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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

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

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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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