

# 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**



Models Available

### Specifications

CONTACT RATING: From low level to 10.1 AMPS @ 125/250 V AC  
ELECTRICAL LIFE: 10,000 cycles @10.1 AMPS  
100,000 cycles @ 6 AMPS  
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 Nickel  
STATIONARY CONTACTS: Silver nickel on copper 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-22 thru J-24. For additional options not shown in catalog, consult Customer Service Center.

|                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Series</b><br><b>LCA</b> SP, Mom.                                                                                                                                                                                                               |  | <b>Operating Force</b><br><b>150</b> 150 grams                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>Terminations</b><br><b>S</b> Solder<br><b>Q</b> .110 Quick Connect<br><b>P</b> PC Thru Hole<br><b>L</b> Left Form PC<br><b>R</b> Right Form PC |  |
| <b>Contact Rating</b><br><b>06</b> 6 A, 125/250 VAC<br>6 A, 125/250V $\mu$ 40T125<br><b>10</b> 10.1 A, 125/250 VAC<br>10.1A, 125/250V $\mu$ 40T125<br>6 (2)A, 125/250V $\mu$ 40T125<br><b>01</b> 0.1 A, 125/250 VAC<br>0.1A, 125/250V $\mu$ 40T125 |  | <b>Actuator</b><br><b>P00</b> Pin plunger<br><b>T05</b> 4.8 mm short lever<br><b>T06</b> 6.8 mm lever<br><b>T09</b> 8.8 mm lever<br><b>T12</b> 12.9 mm lever<br><b>T16</b> 15.6 mm lever<br><b>T18</b> 18.1 mm lever<br><b>T21</b> 20.1 mm lever<br><b>T23</b> 23.4 mm lever<br><b>T36</b> 36.1 mm lever<br><b>T43</b> 43.5 mm lever<br><b>S06</b> 6.0 mm simulated lever<br><b>S09</b> 9.2 mm simulated lever<br><b>A05</b> 5.0 mm lever roller |  | <b>Circuitry</b><br><b>C</b> SPDT<br><b>W</b> SPST N.C.<br><b>Y</b> SPST N.O.                                                                     |  |



Dimensions are shown: mm  
Specifications and dimensions subject to change



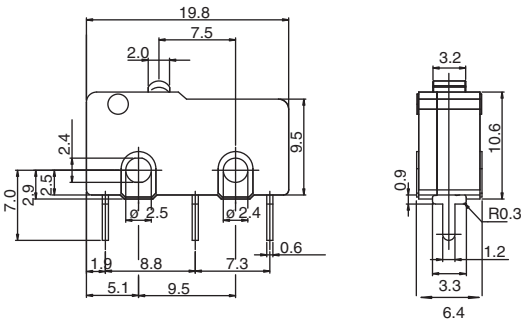
Snap-acting

# LCA Series

## Subminiature Snap-acting Switches

SERIES 

LCA



Snap-acting

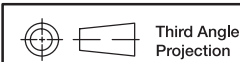
ELECTRICAL RATING 

| RoHS COMPLIANT * | RoHS COMPATIBLE * | OPTION CODE | ELECTRICAL RATING  |
|------------------|-------------------|-------------|--------------------|
| YES              | YES               | 06          | 6A, 125/250 VAC    |
| YES              | YES               | 10          | 10.1A, 125/250 VAC |
| YES              | YES               | 01          | .1A, 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) |
|-------------|--------------------------|
| 150         | 150 grams max.           |



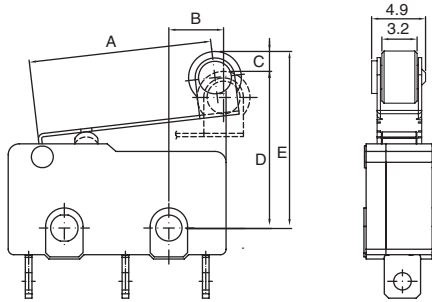
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[www.ck-components.com](http://www.ck-components.com)

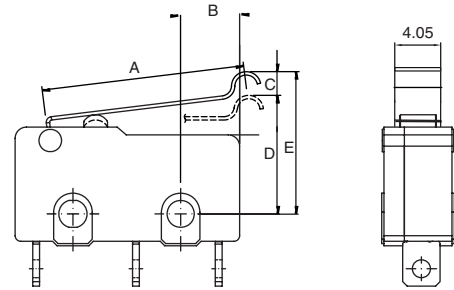
# LCA Series Subminiature Snap-acting Switches

ACTUATOR 

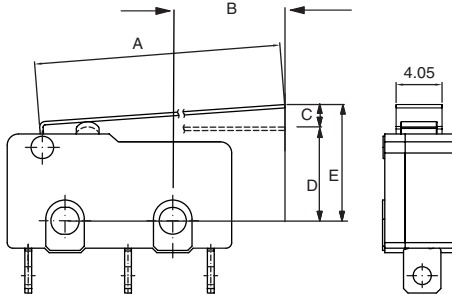
**A05** LEVER ROLLER



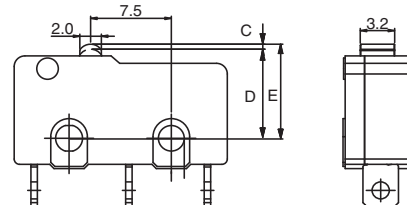
**SXX** SIMULATED ROLLER



**TXX** LEVER

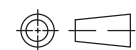


**P00**



Snap-acting

| ACTUATOR<br>OPTION<br>CODE | A<br>mm               | B r<br>mm                                    | eC<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                                           | 1.1                    | 8.5 ± 0.3             | 9.3                       | 0.20               | 150            | 25               | 0.4            |
| T05                        | 16.70                 | 4.80                                         | 3.6                    | 8.9 ± 0.08            | 11.7                      | 0.80               | 50             | 6                | 0.6            |
| T06                        | 18.70                 | 6.80                                         | 4.0                    | 8.9 ± 0.09            | 12.0                      | 0.90               | 45             | 5                | 0.67           |
| T09                        | 20.60                 | 9.10                                         | 4.3                    | 9.15 ± 1.35           | 13.5                      | 1.83               | 33             | 2                | 0.75           |
| T12                        | 24.80                 | 12.90                                        | 5.4                    | 8.9 ± 1.5             | 13.1                      | 1.19               | 34             | 2                | 0.89           |
| T16                        | 27.10                 | 15.60                                        | 6.0                    | 9.15 ± 1.7            | 15.2                      | 1.30               | 40             | 1                | 0.70           |
| T18                        | 30.00                 | 18.50                                        | 6.0                    | 9.15 ± 1.9            | 14.6                      | 1.50               | 32             | 1                | 1.2            |
| T21                        | 32.00                 | 20.50                                        | 6.4                    | 9.15 ± 1.85           | 15.5                      | 1.60               | 35             | 1                | 1.0            |
| T23                        | 35.20                 | 23.40                                        | 8.6                    | 8.9 ± 2.0             | 15.6                      | 1.80               | 25             | 1                | 1.5            |
| T36                        | 47.60                 | 36.10                                        | 10.9                   | 8.85 ± 4.2            | 17.1                      | 3.40               | 30             | 1                | 1.0            |
| T43                        | 55.20                 | 43.50                                        | 13.3                   | 8.9 ± 3.0             | 19.2                      | 2.90               | 15             | 1                | 1.0            |
| S06                        | 17.90                 | 6.00                                         | 3.9                    | 10.8 ± 0.9            | 13.76                     | 0.86               | 47             | 5                | 0.64           |
| S09                        | 21.10                 | 9.20                                         | 5.7                    | 16.1 ± 1.5            | 20.3                      | 1.00               | 42             | 2                | 1.0            |
| A05                        | 16.60                 | 5.00                                         | 3.8                    | 14.6 ± 0.8            | 17.6                      | 0.80               | 50             | 6                | 0.6            |



Third Angle  
Projection

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Specifications and dimensions subject to change

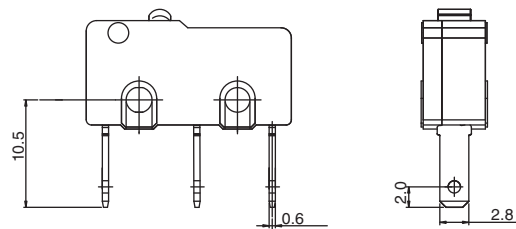
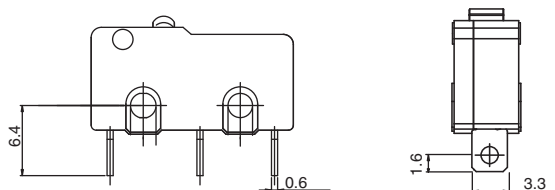
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## TERMINATIONS

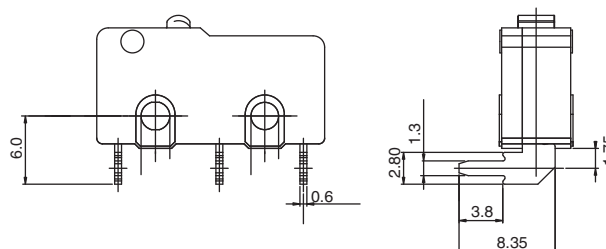
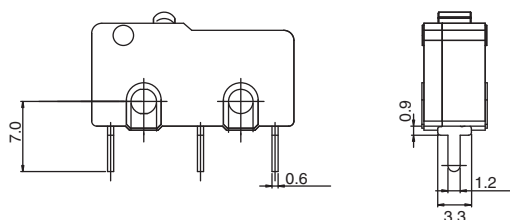
## S SOLDER

## Q QUICK CONNECT

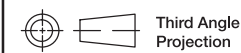
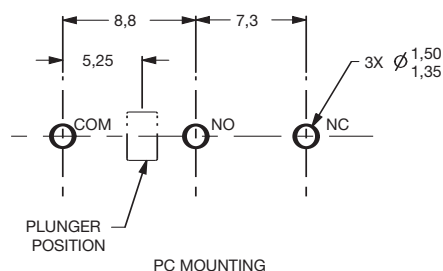
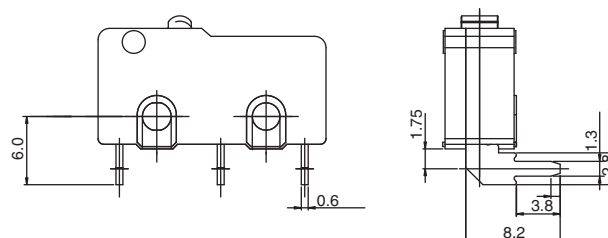


**P** PC THRU HOLE

**L** LEFT FORM PC



**R** RIGHT FORM PC



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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)



Snap-acting



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