

# LCA Series

## Small Size Snap-acting Switches



### Description

The LCA series small size snap-acting switch features a compact design; includes quick connect, solder terminals and PC terminals; and is available in a wide variety of actuator styles. Designers of motorized equipment, sump pumps and thermostatic controls turn to the LCA series because of its reputation for high performance, a long lifecycle and a high electrical capacity.

### Features & Benefits

- Compact design
- Long life and high electrical capacity
- Quick connect, wire lead or PC mounting
- Wide variety of actuator styles
- RoHS compatible

### Applications

- Motorized equipment
- Sump pump
- Thermostatic controls
- Automotive: door latch, seat position detection, EV charging

### Specifications

|                              |  |
|------------------------------|--|
| <b>Contact Rating</b>        | From low level to 10.1 amps @ 125/250 V AC.  |
| <b>Electrical Life</b>       | 0.1A @ 125/250VAC up to 1M cycles<br>6A & 10A @ 125/250VAC 10k cycles<br>5A @ 125/250VAC 100k cycles               |
| <b>Insulation Resistance</b> | 100 M ohm min.   |
| <b>Dielectric Strength</b>   | 1,500 Vrms min. @ sea level  |
| <b>Operating Temperature</b> | -40°C to 125°C   |
| <b>Operating Force</b>       | 150 grams at actuator button Max. Forces are less at free end of lever actuators; (see Actuators option sections). |
| <b>Mounting</b>              | 2-56 screws, torque 2.3 in/lbs max.  |

#### Notes:

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

### Materials

|                            |                         |
|----------------------------|-------------------------|
| <b>Switch Housing</b>      | Thermoplastic polyester |
| <b>Actuator Button</b>     |                         |
| <b>Spring</b>              | Copper alloy.           |
| <b>Pivot</b>               |                         |
| <b>Movable Contacts</b>    | Silver alloy            |
| <b>Stationary Contacts</b> |                         |
| <b>Terminals</b>           | Copper alloy            |
| <b>Actuator Lever</b>      | Stainless steel         |

### Agency Approvals

| Agency | Agency File Number |
|--------|--------------------|
| UL US  | E42363             |
| IEC 15 | ENEC-03370         |



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### Electrical Rating

| RoHS Compliant¹ | RoHS Compatible¹ | Option Code | Electrical Rating  |
|-----------------|------------------|-------------|--------------------|
| Yes             |                  | 01          | 0.1A, 125/250 VAC  |
| Yes             |                  | 06          | 6A, 125/250 VAC    |
| Yes             |                  | 10          | 10.1A, 125/250 VAC |
| Yes             |                  | S5          | 5A, 125/250 VAC    |

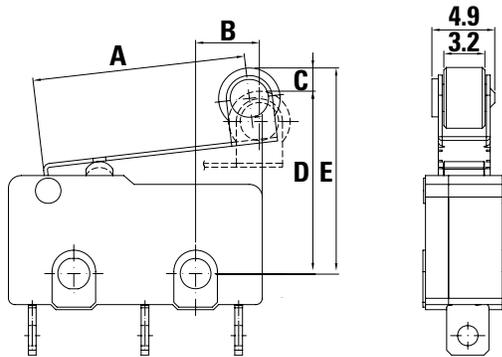
### Operating Force

| Option Code | Operating Forces (grams) |
|-------------|--------------------------|
| 150         | 150 grams max.           |

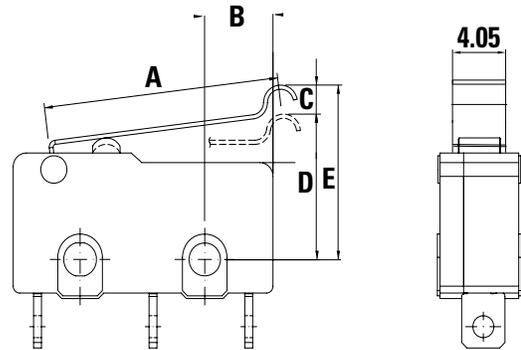
**Notes:**  
See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

### Actuator (mm)

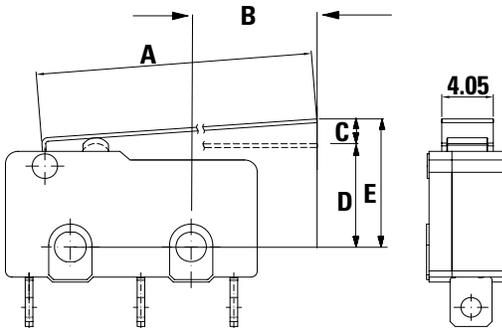
#### A05 Lever Roller



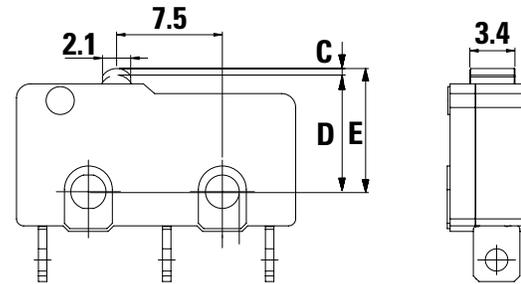
#### SXX Simulated Roller



#### TXX Lever



#### P00



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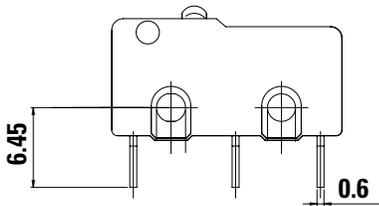
## Small Size Snap-acting Switches



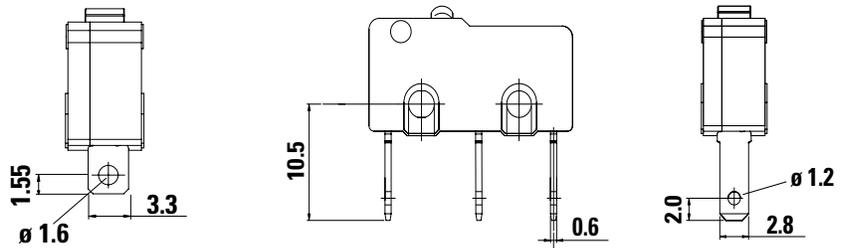
| Option Code | A (mm)          | B REF (mm)                   | C (mm)          | D (mm)             | E (mm)             | Diff. Motion mm Max. | Oper. Force grams Max. | Released Force grams Max | Over-travel Min. |
|-------------|-----------------|------------------------------|-----------------|--------------------|--------------------|----------------------|------------------------|--------------------------|------------------|
|             | Length of Lever | Lever Length MTG. Hole to OP | Pre-Travel Max. | Operating Position | Free Position Max. |                      |                        |                          |                  |
| P00         | -               | -                            | 1.1             | 8.5 ± 0.3          | 9.3                | 0.20                 | 150                    | 25                       | 0.40             |
| T05         | 16.70           | 4.80                         | 3.60            | 8.95 ± 0.8         | 11.75              | 0.80                 | 50                     | 6                        | 0.60             |
| T06         | 18.70           | 6.80                         | 4.03            | 8.9 ± 0.9          | 12.09              | 0.90                 | 45                     | 5                        | 0.67             |
| T09         | 20.60           | 8.80                         | 5.64            | 9.15 ± 1.35        | 13.45              | 1.83                 | 33                     | 2                        | 0.75             |
| T12         | 24.80           | 12.90                        | 3.35            | 8.95 ± 1.9         | 13.1               | 1.17                 | 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           | 18.28                        | 7.70            | 8.95 ± 1.9         | 14.65              | 1.50                 | 32                     | 1                        | 1.20             |
| T21         | 32.00           | 20.10                        | 8.00            | 8.15 ± 1.85        | 15.55              | 1.60                 | 35                     | 1                        | 1.00             |
| T23         | 35.20           | 23.40                        | 8.60            | 8.95 ± 2.0         | 15.55              | 1.80                 | 25                     | 1                        | 1.50             |
| T36         | 47.60           | 35.90                        | -               | -                  | -                  | -                    | -                      | -                        | -                |
| T43         | 55.20           | 43.50                        | 10.45           | 8.95 ± 3.0         | 19.25              | 2.90                 | 15                     | 1                        | 1.00             |
| S06         | 17.90           | 6.00                         | 3.86            | 10.85 ± 0.9        | 17.81              | 0.86                 | 47                     | 5                        | 0.64             |
| S09         | 21.10           | 9.00                         | 5.70            | 16.15 ± 1.5        | 20.35              | 1.00                 | 42                     | 2                        | 1.00             |
| A05         | 16.00           | 5.00                         | 3.80            | 14.65 ± 0.8        | 17.65              | 0.80                 | 50                     | 6                        | 0.60             |

### Terminations (mm)

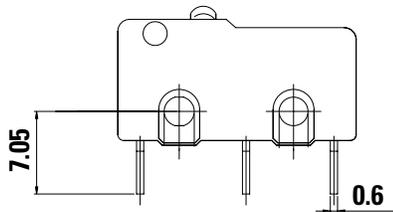
S Solder



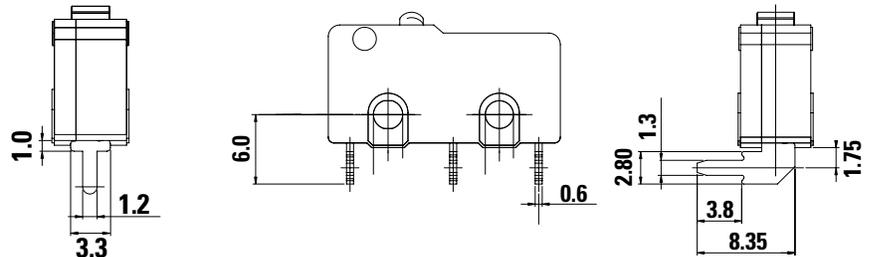
Q Quick Connect



P PC Thru Hole



L Left Form PC

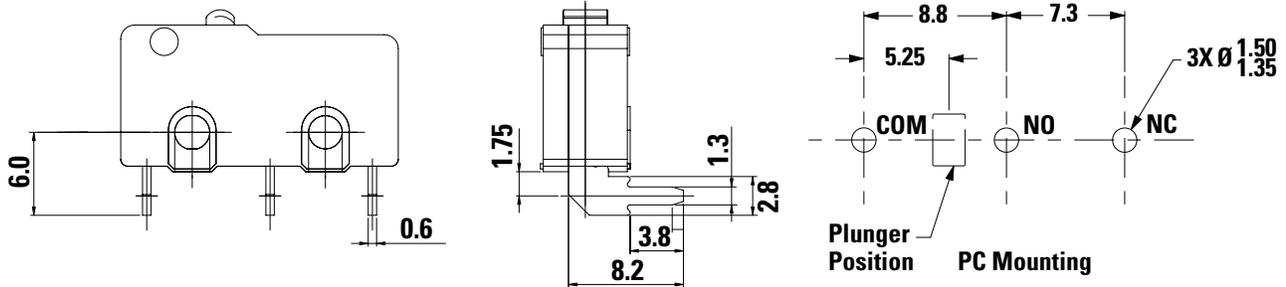


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R Right Form PC



### 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)