

LCA Series

Small Size 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
- Automotive: door latch, seat position detection, EV charging

UL61058-1



Specifications

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

ELECTRICAL LIFE: 0.1A @ 125/250VAC up to 1M cycles
6A & 10A @ 125/250VAC 10k cycles
5A @ 125/250VAC 100k 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.



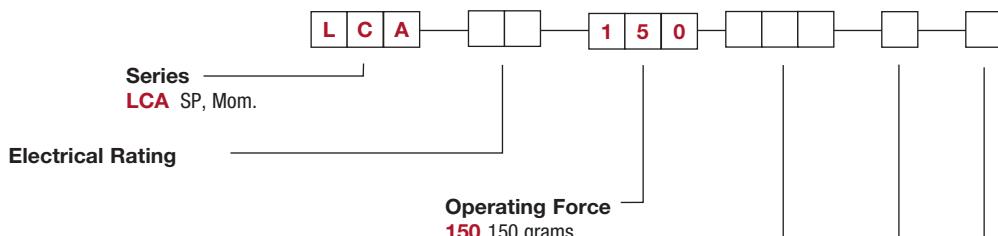
J

Snap-acting

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. For additional options not shown in catalog, consult Customer Service Center.



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



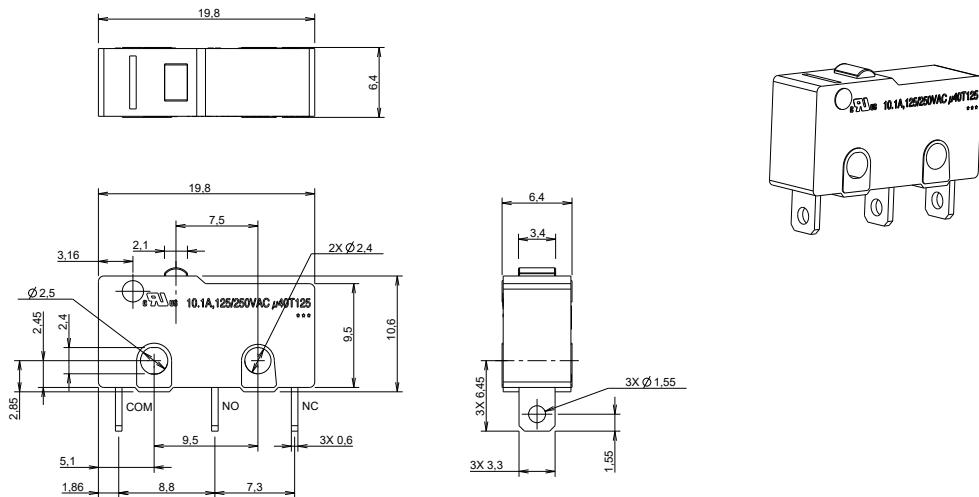
Dimensions are shown: mm
Specifications and dimensions subject to change



LCA Series Small Size Snap-acting Switches

SERIES

LCA



Snap-acting

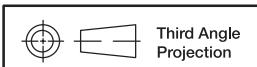
ELECTRICAL RATING

| RoHS COMPLIANT * | RoHS COMPATIBLE * | OPTION CODE | ELECTRICAL RATING |
|---------------------|----------------------|-------------|--------------------|
| YES | YES | 01 | 0.1A, 125/250 VAC |
| YES | YES | 06 | 6A, 125/250 VAC |
| YES | YES | 10 | 10.1A, 125/250 VAC |
| YES | YES | S5 | 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) |
|-------------|--------------------------|
| 150 | 150 grams max. |



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C&K

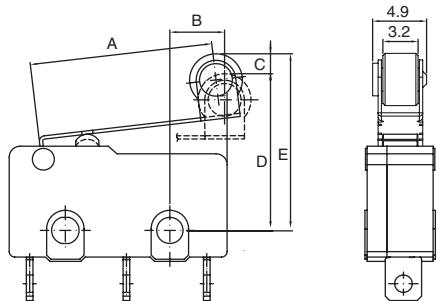
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LCA Series

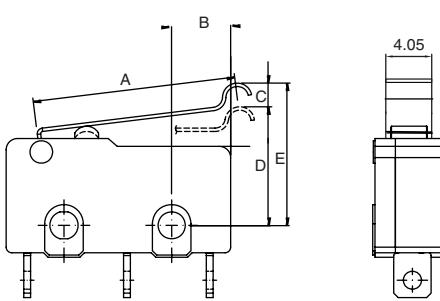
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ACTUATOR

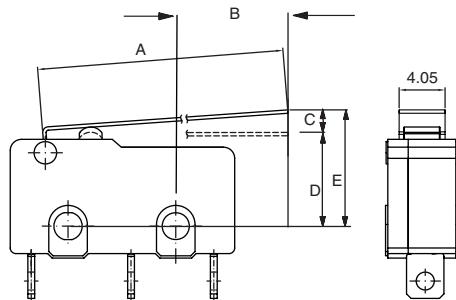
A05 LEVER ROLLER



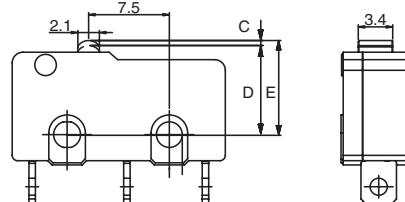
SXX SIMULATED ROLLER



TXX LEVER



P00



Snapping

| ACTUATOR 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 MAX | FREE POSITION MAX | | | | |
| P00 | N/A | N/A | 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 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 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 |



Third Angle
Projection

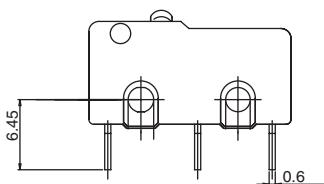
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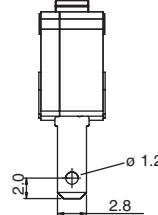
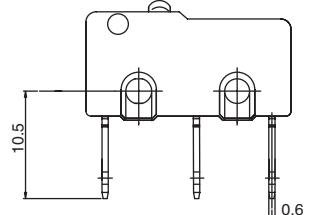
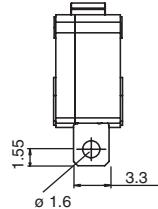
Small Size Snap-acting Switches

TERMINATIONS

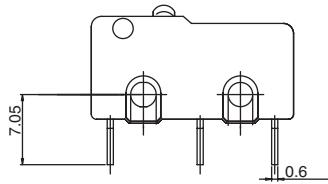
S SOLDER



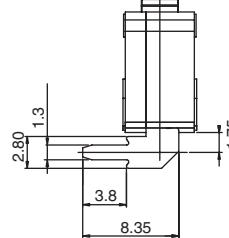
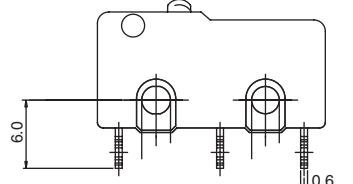
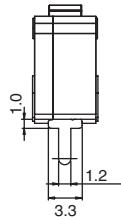
Q QUICK CONNECT



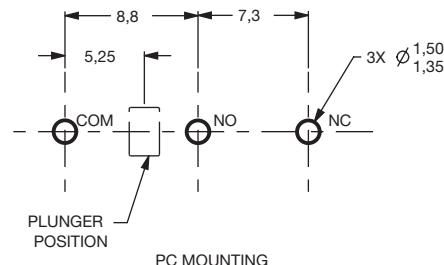
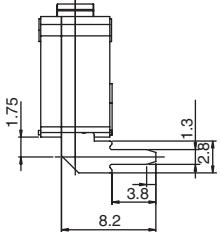
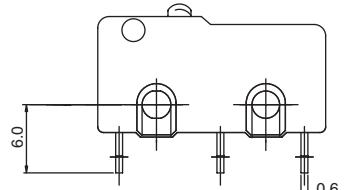
P PC THRU HOLE



L LEFT FORM PC



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)



Dimensions are shown: mm
Specifications and dimensions subject to change

Mouser Electronics

Authorized Distributor

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C&K Switches:

[LCA10A140P00SW](#) [LCA10A140S12QW](#) [LCA10A140L05SW](#) [LCA10A140S12PC](#) [LCA10A140L18QC](#)
[LCA10A140L05QC](#) [LCA10A140L36QC](#) [LCA10A140L18SC](#) [LCA10A140L05SC](#) [LCA10A140P00QY](#)
[LCA10A140L36SC](#) [LCA10A140P00QW](#) [LCA10A140L05SY](#) [LCA10A140L21QC](#) [LCA10A140L16QC](#)
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[LCA10A140L05LC](#)