

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.

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

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.

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.

Series

LCA SP, Mom.

Electrical Rating

Operating Force

150 150 grams

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
T36 35.9 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.

Option Code	UL cUL US 1054	UL cUL US 61058-1	RoHS
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



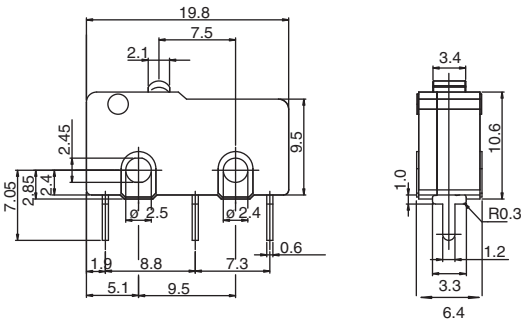
Dimensions are shown: mm
Specifications and dimensions subject to change



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SERIES

LCA



Snap-acting

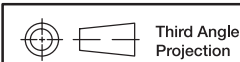
ELECTRICAL RATING

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.



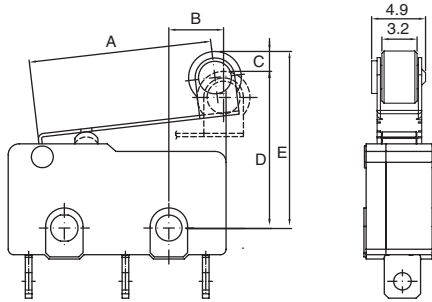
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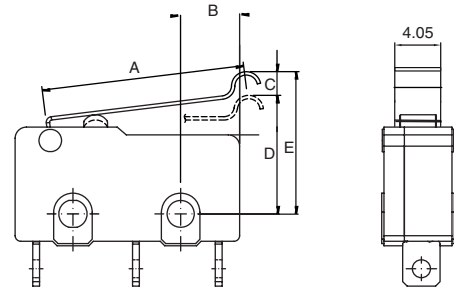
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ACTUATOR 

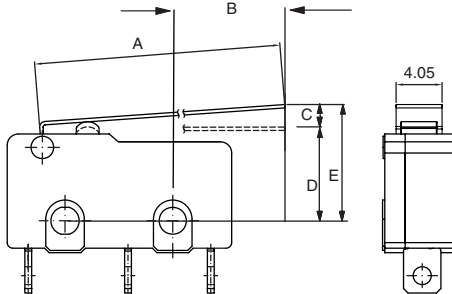
A05 LEVER ROLLER



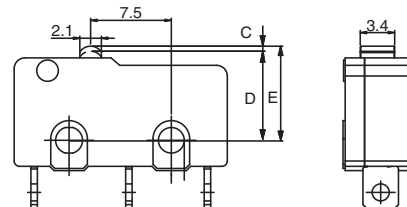
SXX SIMULATED ROLLER



TXX LEVER



P00



Snap-acting

ACTUATOR OPTION CODE	A mm	B r mm	eC mm	D mm	E mm	Diff. Motion mm	Oper. Force	Release Force	Over Travel
	LENGTH OF LEVER	Lever length for front mtg. hole to OP	PRE TRAVEL (MAX)	OPERATING POSITION	FREE POSITION (MAX)	max	max. grams	min. 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	17.8	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



Dimensions are shown: mm
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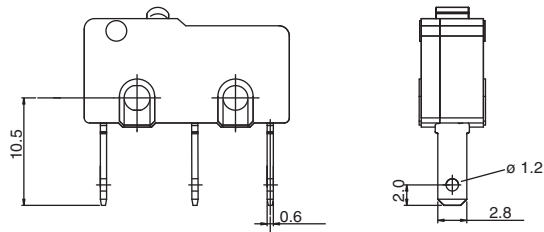
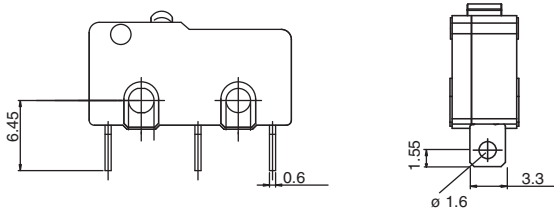
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TERMINATIONS

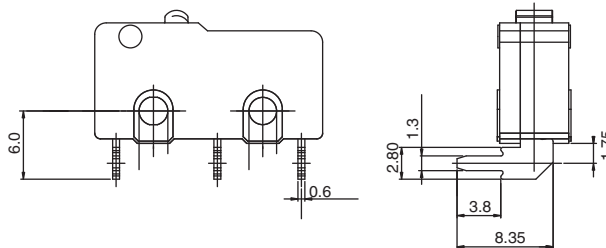
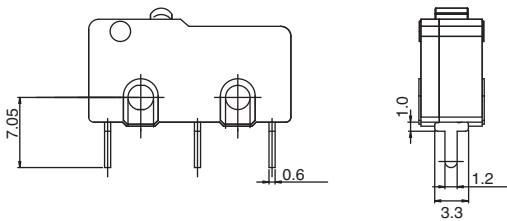
S SOLDER

Q QUICK CONNECT

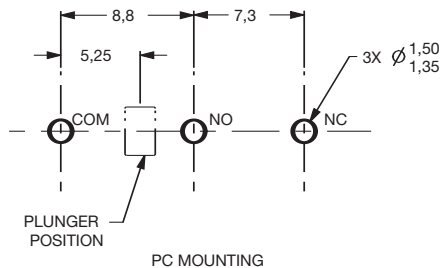
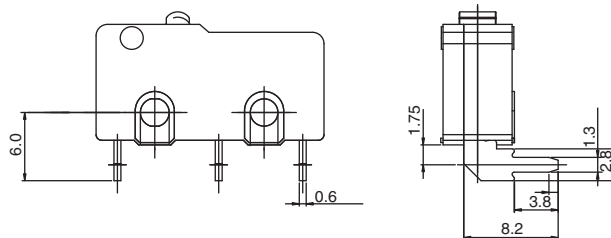


P PC THRU HOLE

L LEFT FORM PC



R RIGHT FORM PC



Third Angle
Projection

Dimensions are shown: mm
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LCA Series

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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



Third Angle
Projection

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