LC Series Subminiature Precision Snap-acting Switches

Features/Benefits

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

Typical Applications

- Motorized equipment
- Sump pump
- Thermostatic controls

Models Available



Specifications

CONTACT RATING: From low level* to 10.1 AMPS @ 250 V AC. ELECTRICAL LIFE: 100,000 cycles

INSULATION RESISTANCE: 1,000 M $o\eta\mu$ min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -17°F to 185°F (-25°C to 85°C).

OPERATING FORCE: From 142 to 170 grams at actuator button. Forces are less at free end of lever actuators; (see OPERATING FORCE and ACTUATOR option sections).

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

 * Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC 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 or high temperature thermoplastic (PTS) (UL 94V-0).

ACTUATOR BUTTON: Thermoplastic polyester (UL 94V-0).

SPRING: Copper alloy.

PIVOT: Copper alloy.

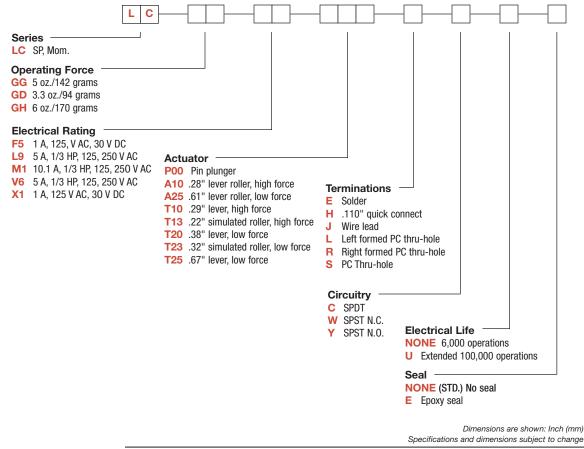
- MOVABLE CONTACTS: Fine silver for ratings greater than 1 AMP @ 125 V AC. Fine silver with 24K gold plate for 1 AMP @ 125 V AC or less.
- STATIONARY CONTACTS: Fine silver welded on copper alloy for ratings greater than 1 AMP @ 125 V AC. Gold alloy welded on copper alloy for ratings less than 1 AMP @ 125 V AC.

TERMINALS: Copper alloy.

TERMINAL SEAL: Epoxy.

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 K-18 through K-20. For additional options not shown in catalog, consult Customer Service Center.

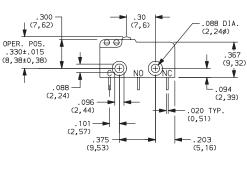


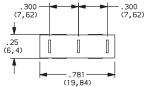
K-17

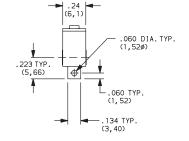


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LC SUBMINIATURE PRECISION SNAP-ACTING SWITCHES SP MOMENTARY









OPERATING FORCE

OPTION CODE	BASIC SWITCH OPERATING FORCES (OZ./GRAMS)
GG	5 142
GD	3.3 94
GH	6 170

NOTE: Operating force varies with actuator option, see ACTUATOR option section.

ELECTRICAL RATING

OPTIO	N CODE			CONTACT	MATERIAL	
DOMESTIC	INTERNATIONAL					
"\$1 @ "	. ₽J @ ° 🏝	RoHS COMPLIANT*	RoHS COMPATIBLE*	MOVABLE CONTACT	STATIONARY CONTACT	ELECTRICAL RATING
F5	X1	Yes	Yes	Fine silver with 24K gold plate.	Fine silver with 24K gold plate on copper base alloy.	From low level* to 1 AMP @ 125 V AC, 30 V DC.
L9	V 6	Yes	Yes	Fine silver.	Fine silver welded on	5 AMPS, 1/3 HP @ 125 & 250 V AC.
M1		Yes	Yes		copper base alloy.	10.1 AMPS, 1/3 HP @ 125 & 250 V AC.

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

All models \otimes **N** $\textcircled{0}^{\circ}$ with all options, 2 also available.

Consult Customer Service Center for availability and delivery of nonstandard ratings. *Low Level = conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.



Third Angle Projection

Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

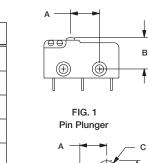
LC Series Subminiature Precision Snap-acting Switches

ACTUATOR





в



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FIG. 2

Lever Roller

F

GG

.21

6

.16

4.5

.11

3

.07 2

1

28

.21

6

.21

6

.10

3

.10

3

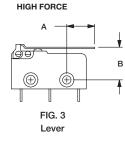
.07

2

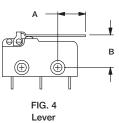
œG

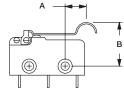
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OPTION CODE	FIG.	DIM. A	DIM. B	DIM. C
P00	1	.30 (7,6)	.330 ± .015 (8,38 ± 0,38)	-
A10	7	.28 (7,1)	.560 ± .070 (14,22 ± 1,78)	.19 dia. (4,8Ø)
A25	2	.61 (15,5)	.560 ± .175 (14,22 ± 4,45)	.19 dia. (4,8Ø)
T10	3	.29 (7,4)	.340 ± .070 (8,64 ± 1,78)	-
T13	5	.22 (5,6)	.455 ± .065 (11,56 ± 1,65)	-
T20	4	.39 (9,9)	.340 ± .140 (8,64 ± 3,56)	-
T23	6	.32 (8,1)	.455 ± .125 (11,56 ± 3,18)	_
T25	4	.67 (17,0)	.340 ± .185 (8,64 ± 4,70)	-









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FIG. 5

Simulated Roller

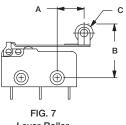
FIG. 6 Simulated Roller

А

в

65







Lever Roller

MINIMUM RELEASE FORCE (OZ./GRAMS)		MAXIMUM DIFFERENTIAL TRAVEL	MAXIMUM PRETRAVEL	MINIMUM OVERTRAVEL	
	GD	GH	ALL FORCES	ALL FORCES	ALL FORCES
	.11	.42	.034	.140	.029
	3	12	(0,86)	(3,56)	(0,74)
	.07	.32	.044	.180	.037
	2	9	(1,12)	(4,57)	(0,94)
	.05	.21	.067	.272	.053
	15	6	(1,70)	(6,91)	(1,53)
	.04	.16	.086	.351	.068
	1	4.5	(2,18)	(8,92)	(1,73)
	.05	2.0	.004	.030	.010
	14	57	(0,10)	(0,76)	(0,25)
	.10	.39	.035	.140	.029
	3	11	(0,90)	(3,56)	(0,74)
	.03	.42	.032	.130	.026
	1	12	(0,81)	(3,30)	(0,66)

.276

(7,01)

.252

(6,40)

.372

(9,45)

.067

(1,70)

.062

(1,57)

.090

(2,29)

SWI

NOTE: For basic switch operating forces, see page K-18.

MAXIMUM OPERATING FORCE (OZ./GRAMS)

GD

1

28

.68

19

.52

15

.42

12

3.3

95

1

28

1.2

34

.52

15

.52

15

.05

14

GH

2.0

57

1.6

44

1.1

31

.85

24

6

170

2.1

60

2.2

62

1.1

30

1.2

34

0.8

24



OPTION CODE

A10

A15

A20

A25

P00

T10

T13

T20

T23

T25

GG

1.69

48

1.3

37

0.9

26

.70 20

5

142

1.7

48

1.8

52

0.9

26

1.0

28

0.7

19

Third Angle ¢ Projection

.053

(1, 35)

.049

(1,24)

.072

(1,83)

Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

.03

1

.03

1

.03

1

.21 6

.21

6

.14

4

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