

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

UL61058-1





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.

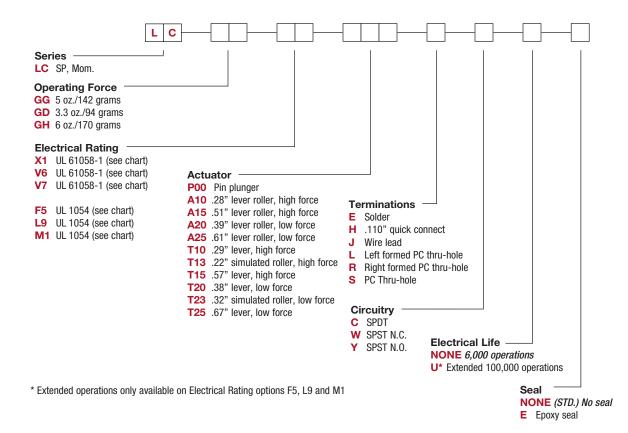
MOVABLE CONTACTS: Fine silver for ratings greater than 1 AMP @ 125 V AC. Fine silver with 24K gold plate for 1 AMP @ 125 V AC or less

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



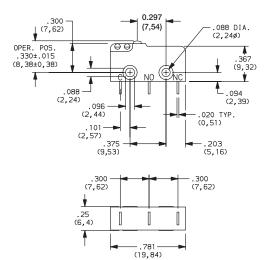


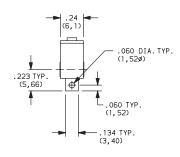
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

LC Series Small Size Precision Snap-acting Switches

SERIES

LC SMALL SIZE 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

	UL 61058-1	CONTA	CT MATERIAL		
OPTION CODE	ELECTRICAL RATING	MOVABLE CONTACT	STATIONARY CONTACT	RoHS COMPLIANT*	RoHS COMPATIBLE*
X1	1A GP, 250 Vac, 50/60 Hz, 25E3, T85 1RA, 30 Vdc, 1E4, T85	Fine silver with 24K gold plate	Fine silver with 24K gold plate on copper base alloy	Yes	Yes
V 6	5(2)A RM, 250 Vac, 50/60 Hz, 1E4, T85 5A GP, 250 Vac, 50/60 Hz, 1E4, T85 5RA, 30 Vdc, 1E4, T85 1/3 HP, 125/250 Vac, 50/60 Hz, 1E4, T85	Fine silver	Fine silver welded on copper base alloy	Yes	Yes
V7	10(2)A RM, 250 Vac, 50/60 Hz, 1E4, T85 10A GP, 250 Vac, 50/60 Hz, 1E4, T85 10RA, 30 Vdc, 1E4, T85 1/3 HP, 125/250 Vac, 50/60 Hz, 1E4, T85	Fine silver	Fine silver welded on copper base alloy	Yes	Yes

	UL 1054	CONTA	CT MATERIAL		
OPTION CODE	ELECTRICAL RATING	MOVABLE CONTACT	STATIONARY CONTACT	RoHS COMPLIANT*	RoHS COMPATIBLE*
F5	1A, 125 V AC, 30 VDC 100,000 cycles ("U" option)	Fine silver with 24K gold plate	Fine silver with 24K gold plate on copper base alloy	Yes	Yes
L9	5A, 1/3 HP @ 125 and 250 V AC 100,000 cycles ("U" option)	Fine silver	Fine silver welded on copper base alloy	Yes	Yes
M1	10.1A, 1/3 HP @ 125 and 250 V AC 100,000 cycles ("U" option)	Fine silver	Fine silver welded on copper base alloy	Yes	Yes



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



Dimensions are shown: Inches (mm)



ACTUATOR

OPTION CODE	FIG.	DIM. A	DIM. B	DIM. C
P00	1	0.297 (7,6)	.330 ± .015 (8,38 ± 0,38)	-
A10	7	0.28 (7,1)	.570 ± .070 (14,48 ± 1,78)	.19 dia. (4,8Ø)
A25	2	0.61 (15,5)	.570 ± .175 (14,22 ± 4,45)	.19 dia. (4,8Ø)
T10	3	0.29 (7,4)	.340 ± .070 (8,64 ± 1,78)	_
T13	5	0.220 (5,3)	.455 ± .065 (11,56 ± 1,65)	_
T20	4	0.39 (9,9)	.340 ± .140 (8,64 ± 3,56)	_
T23	6	0.32 (8,1)	.455 ± .125 (11,56 ± 3,18)	_
T25	4	0.67 (17,0)	.340 ± .091 (8,64 ± 4,70)	_
A15	7	0.51 (13,0)	.560 ± .090 (14,22 ± 2,29)	.19 dia. (4,8Ø)
A20	2	0.38 (9,7)	.560 ± .135 (14,22 ± 2,29)	.19 dia. (4,8Ø)
T15	3	0.57 (14,51)	.340 ± .100 (8,64 ± 2,54)	_

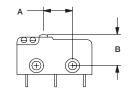


FIG. 1 Pin Plunger

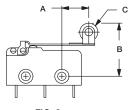
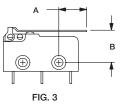
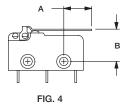


FIG. 2 Lever Roller



HIGH FORCE

Lever LOW FORCE



Lever

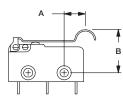


FIG. 5 Simulated Roller

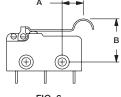
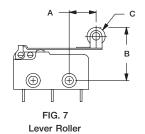


FIG. 6 Simulated Roller





SWITCH CHARACTERISTICS

OPTION		IMUM OPERA RCE (OZ./GRA			NIMUM RELEA RCE (OZ./GRA		MAXIMUM DIFFERENTIAL TRAVEL	MAXIMUM PRETRAVEL	MINIMUM OVERTRAVEL
CODE	GG	GD	GH	GG	GD	GH	ALL FORCES	ALL FORCES	ALL FORCES
A10	1.69	1	2.0	.21	.11	.42	.034	.140	.029
	48	28	57	6	3	12	(0,86)	(3,56)	(0,74)
A15	1.3	.68	1.6	.16	.07	.32	.044	.180	.037
	37	19	44	4.5	2	9	(1,12)	(4,57)	(0,94)
A20	0.9	.52	1.1	.11	.05	.21	.067	.272	.053
	26	15	31	3	15	6	(1,70)	(6,91)	(1,53)
A25	.70	.42	.85	.07	.04	.16	.086	.351	.068
	20	12	24	2	1	4.5	(2,18)	(8,92)	(1,73)
P00	5	3.3	6	1	.05	2.0	.004	.030	.010
	142	95	170	28	14	57	(0,10)	(0,76)	(0,25)
T10	1.7	1	2.1	.21	.10	.39	.035	.140	.029
	48	28	60	6	3	11	(0,90)	(3,56)	(0,74)
T13	1.8	1.2	2.2	.21	.03	.42	.032	.130	.026
	52	34	62	6	1	12	(0,81)	(3,30)	(0,66)
T20	0.9	.52	1.1	.10	.03	.21	.067	.276	.053
	26	15	30	3	1	6	(1,70)	(7,01)	(1,35)
T23	1.0	.52	1.2	.10	.03	.21	.062	.252	.049
	28	15	34	3	1	6	(1,57)	(6,40)	(1,24)
T25	0.7	.05	0.8	.07	.03	.14	.090	.372	.072
	19	14	24	2	1	4	(2,29)	(9,45)	(1,83)
T15	1.2	1.3	1.5	0.14	.21	.28	.047	.190	.040
	35	39	42	4	6	81	(1,19)	(4,83)	(1,02)

NOTE: For basic switch operating forces, see page J-32.



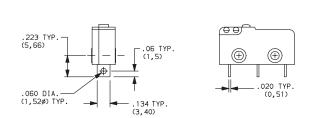
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



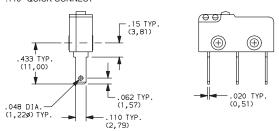
LC Series

TERMINATIONS



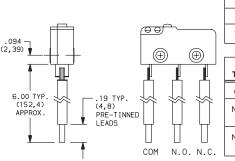


H .110" QUICK CONNECT



NOTE: Use Amp Quick Connect Part No. 640932-1.

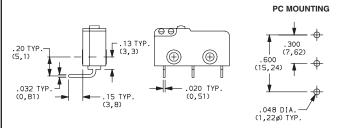




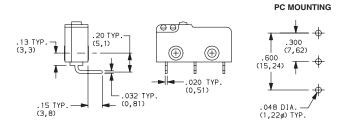
WIRE SIZE
22 AWG
20 AWG
18 AWG

TERMINAL	WIRE COLOR
COMMON	BLACK
NORMALLY OPEN	WHITE
NORMALLY CLOSED	RED

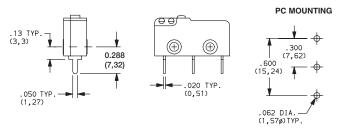
L LEFT FORMED PC THRU-HOLE



RIGHT FORMED PC TRU-HOLE



S PC THRU-HOLE



CIRCUITRY

- C SPDT (Single Pole, Double Throw)
- SPST N.C. (Single Pole, Single Throw, Normally Closed)
- SPST N.O. (Single Pole, Single Throw, Normally Open)

ELECTRICAL LIFE

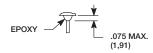
NONE 6,000 OPERATIONS

U EXTENDED 100,000 OPERATIONS

SEAL

NONE NO SEAL









Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

LCGGL9P00SC LCGGX1T10EC LCGGX1A10EC LCGHF5A10RCE LCGHF5A10RC LCGGX1T13EC LCGHF5A10LC LCGGF5P00EW LCGDL9P00SC LCGDL9T10EC LCGGM1T10HY LCGGM1T10JY LCGGX1P00EC LCGGX1T25EC LCGHF5T10SY LCGDL9T13EC LCGDF5A10LCU LCGGL9P00EC LCGGL9T10LC LCGDL9T10SC LCGDL9A10EC LCGGF5T13HCU LCGGF5A10HYU LCGGV6P00ECU LCGDL9P00EC LCGDL9A10SC LCGDL9P00HC LCGGV6T10SC LCGHF5A10ECE LCGHV6A10LC LCGDF5P00HC LCGGX1A10EW LCGHL9A10HCU LCGGL9P00SCE LCGGX1T20EY LCGHL9T10SC LCGGL9A10HC LCGGL9T13SCE LCGGF5T10LC LCGGL9T20HCE LCGGF5T10ECUE LCGDL9T23EC LCGGF5T23HCUE LCGGV6P00LC LCGGM1T10SC LCGHF5T23SCUE LCGHX1A10RCE LCGHF5T20SCU LCGHM1T10EC LCGDF5T10SW LCGGL9T23EC LCGHF5A10LCE LCGDL9P00SYE LCGHV6A10RC LCGHF5A10HC LCGHL9P00EC LCGGV6P00ECUE LCGGF5T10EC LCGGL9P00SY LCGGV6A10RC LCGGL9A10LCE LCGGF5T13SYU LCGGL9T23HCE LCGHL9P00SYU LCGGF5T10RC LCGHF5P00EC LCGGM1T10EC LCGDF5T13RWU LCGHF5T23ECU LCGGF5T13RC LCGHM1T23HC LCGGL9T23SC LCGDV6P00SCE LCGHF5A10RWE LCGGL9T10HC LCGGF5T23SC LCGDL9T10HC LCGHF5T10JWU LCGGF5A10ECU LCGHF5A10RYE LCGDF5T10EC LCGHV6P00RC LCGHV6T10HY LCGHX1T23JY LCGHM1P00EC LCGGV6P00SCUE LCGGL9P00SYUE LCGHF5T23HCUE LCGDX1P00EC LCGGF5A25ECU LCGHM1A10HC LCGGL9P00SYE LCGHL9P00SC LCGGL9T10SC LCGHM1P00HY LCGGV6T10RC LCGDF5T13SC LCGGM1A10HC LCGGV6A10LCE LCGGM1T10HC