





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



Specifications

CONTACT RATING: From low level* to 10.1 AMPS @ 250 V AC. ELECTRICAL LIFE: 100,000 cycles at 5 AMPS @ 250 V AC.

INSULATION RESISTANCE: 1.000 M Ω 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.

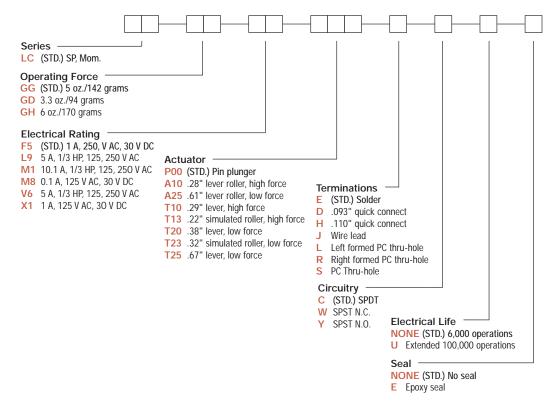
MOVABLE CONTACTS: Fine silver for ratings greater than 1 AMP @ 125 V AC. Fine silver with 24K gold plate for 1 AMP @ 125 V AC or less

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 J-19 thru J-22. For additional options not shown in catalog, consult Customer Service Center.



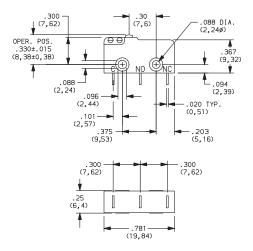


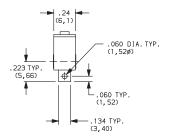
Dimensions are shown: IN (mm) Dimensions subject to change

C&K LC Series Subminiature Precision Snap-acting Switches

SERIES

(STD.) SUBMINIATURE PRECISION SNAP-ACTING SWITCHES SP MOMENTARY









OPERATING FORCE



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

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

ELECTRICAL RATING



OPTI	ON CODE	CONTACT MATERIAL		
DOMESTIC	INTERNATIONAL			
. 91. €°	⊕ ® 117 °	MOVABLE CONTACT	STATIONARY CONTACT	ELECTRICAL RATING
F5 (STD.)	X1	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	V6	Fine silver.	Fine silver welded on copper	5 AMPS, 1/3 HP @ 125 & 250 V AC.
M1		Time silvei.	base alloy.	10.1 AMPS, 1/3 HP @ 125 & 250 V AC.
M8		Fine silver with 24K gold plate.	Fine silver with 24K gold plate on copper base alloy.	From low level* to 0.1 AMP @ 125 V AC, 30 V DC.

All models • All options, also available.

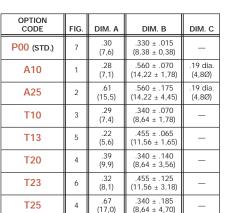
Consult Customer Service Center for availability and delivery of nonstandard ratings. *Low Level = conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

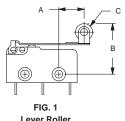




C&K LC Series Subminiature Precision Snap-acting Switches

ACTUATOR





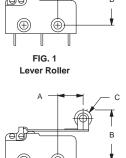
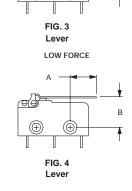


FIG. 2

Lever Roller



HIGH FORCE

В

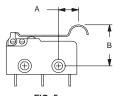
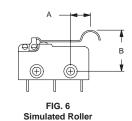


FIG. 5 Simulated Roller



BASIC FORCE

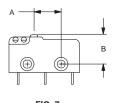


FIG. 7 Pin Plunger

SWITCH CHARACTERISTICS

OPTION	MAXIMUM OPERATING FORCE (OZ./GRAMS)			MINIMUM RELEASE FORCE (OZ./GRAMS)		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)

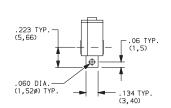
NOTE: For basic switch operating forces, see page J-19.



Dimensions are shown: IN (mm) Dimensions subject to change

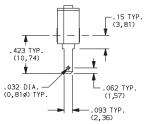
C&K LC Series Subminiature Precision Snap-acting Switches

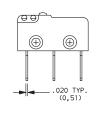






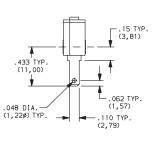


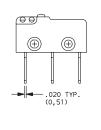




NOTE: Use Amp Quick Connect Part No. 60432-1.

Н .110" QUICK CONNECT





WIRE LEAD RATING 1 AMP 5 AMPS രി (+) 6.00 TYP. (152,4) APPROX. -.19 TYP. 3 (4,8) PRE-TINNED LEADS

COM

	10.1 AMPS	18 AWG
) (1)		
	TERMINAL	WIRE COLOR
\iiint	COMMON	BLACK
	NORMALLY OPEN	WHITE
∐ ∐ N.O. N.C.	NORMALLY CLOSED	RED

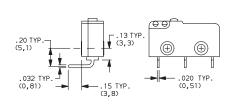
WIRE

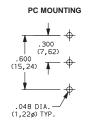
22 AWG

20 AWG

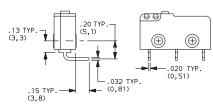
NOTE: Use Amp Quick Connect Part No. 640932-1

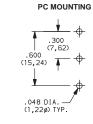
LEFT FORMED PC THRU-HOLE



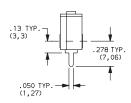


RIGHT FORMED PC TRU-HOLE

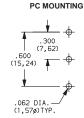




S PC THRU-HOLE







CIRCUITRY

C (STD.) SPDT (Single Pole, Double Throw)

W SPST N.C. (Single Pole, Single Throw, Normally Closed)

SPST N.O. (Single Pole, Single Throw, Normally Open)







NONE

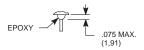
NONE

(STD.) 6,000 OPERATIONS

SEAL

(STD.) NO SEAL

EPOXY SEAL







Mouser Electronics

Authorized Distributor

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

C&K Components:

LCGGL9P00SC LCGGF5P00EC LCGGX1T10EC LCGGX1A10EC LCGGX1A10SC LCGHF5A10RCE

LCGHF5A10RC LCGGX1T13EC LCGHL9T10EC LCGHF5A10LC LCGGF5T23EC LCGGF5P00EY LCGGF5P00EW

LCGGM1T10HY LCGGM1T10JY LCGGX1P00EC