

LCS Series

Subminiature Sealed Snap-acting Switches



UL61058-1  

Features/Benefits

- Compact design
- Long life and high electrical capacity
- Quick connect, solder terminals, PC terminals, wire leads
- Wide variety of actuator styles
- RoHS compatible, RoHS compliant
- IP67

Typical Applications

- Motorized equipment
- Sump pump
- Thermostatic controls
- Computers
- Air conditioners
- Automotive: door latch, seat position detection, EV charging

Specifications

CONTACT RATING: from low level to 5 Amp
ELECTRICAL LIFE: 10,000 cycles for 5A; 1M cycles for 0.1A
INSULATION RESISTANCE: 100 M ohm min.
DIELECTRIC STRENGTH: 1,000 VAC
OPERATING TEMPERATURE:
-40°C to +120°C (without wire)
-40°C to +85°C (with UL1007 wire)
-40°C to +105°C (with UL1015 wire)
-40°C to +105°C (with UL1430 wire)
-40°C to +80°C (with UL1061 wire)
-40°C to +120°C (with UL1330 wire)
OPERATING FORCE: (see ACTUATOR'S option sections).
MOUNTING: 2-56 screws, torque 2.3 in/lbs max.

Materials

SWITCH HOUSING: Thermoplastic polyester or high temperature thermoplastic (PTS) (UL 94V-0).
ACTUATOR BUTTON: Thermoplastic polyester.
SPRING: Copper alloy.
PIVOT: Copper alloy.
MOVABLE CONTACTS: Option "01" Gold plating over silver alloy
Option "05" Silver alloy
STATIONARY CONTACTS: Option "01" Gold plating over silver alloy
Option "05" Silver alloy
TERMINALS: Copper alloy.
ACTUATOR LEVEL: Stainless steel.

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. Available options are shown and described on pages J-40 thru J-43. For additional options not shown in catalog, consult Customer Service Center.

Option Code	UL 61058-1	Operating Force	Actuator	Terminations	Wire Type AWG (when required)	Wire UL # (when required)	Wire Side (when required)
01	0.1 A 125/250 V AC	2 203 grams	P00 Pin plunger	S Solder	20 20 AWG	A UL1007	A Wire out the bottom
05	5 A 125/250 V AC		T00 11.9 mm short lever	Q 0.110 Quick Connect	22 22 AWG	B UL1015	B Wire out the right side
			T05 17.4 mm short lever	P PC Thru Hole	24 24 AWG	C UL1430	C Wire out the left side
			T07 19.4 mm short lever	W Wire leads potted	26 26 AWG	D UL1061	D None
			T13 25.5 mm lever	Z Wire leads non-potted			
			T19 33.3 mm lever				
			T28 40.7 mm lever				
			T43 55.9 mm lever				
			S26 18.6 mm simulated lever				
			A05 17.2 mm lever roller				



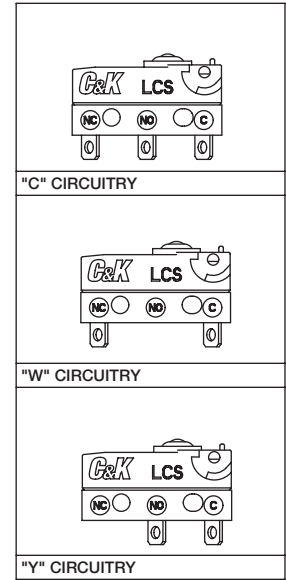
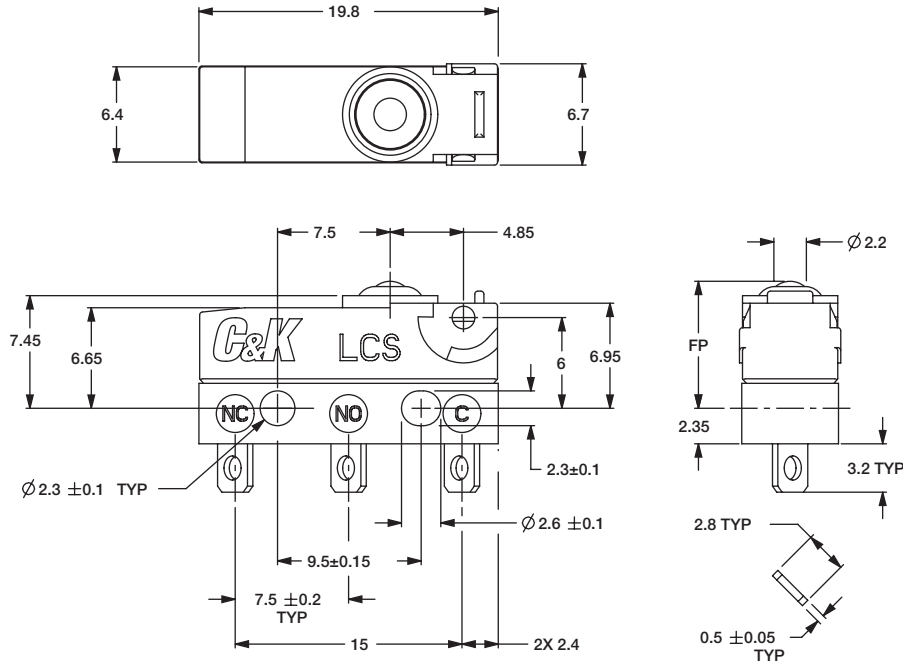
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SERIES 

LCS



ELECTRICAL RATING 

RoHS COMPLIANT *	RoHS COMPATIBLE *	OPTION CODE	ELECTRICAL RATING
YES	YES	05	5 AMP, 125/250 V AC
YES	YES	01	0.1 AMP, 125/250 V AC

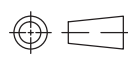
OPERATING FORCE 

OPTION CODE	OPERATING FORCES (grams)
2	203 g. max.



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J-45

 Third Angle Projection
Dimensions are shown: mm
Specifications and dimensions subject to change

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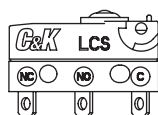
Snap-acting

LCS Series

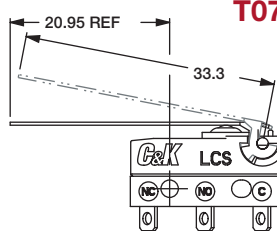
Subminiature Sealed Snap-acting Switches

ACTUATOR 

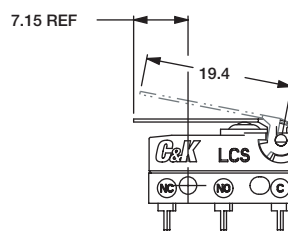
P00



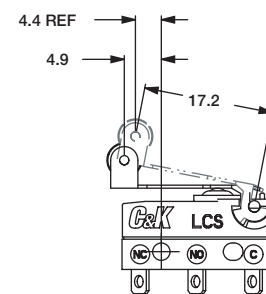
T19



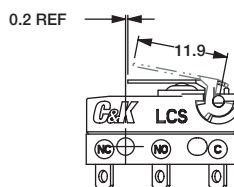
T07



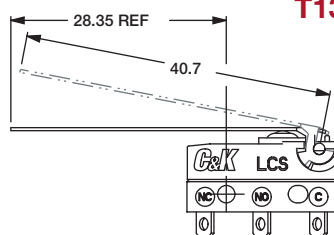
A05



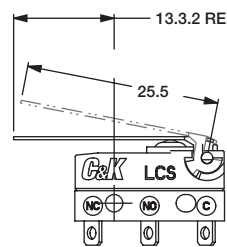
T00



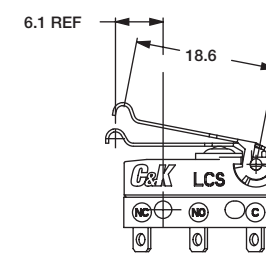
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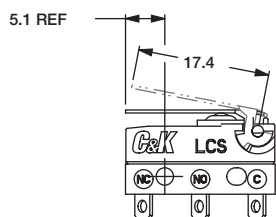
T13



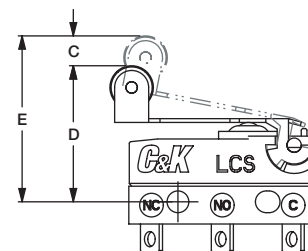
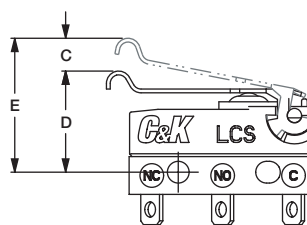
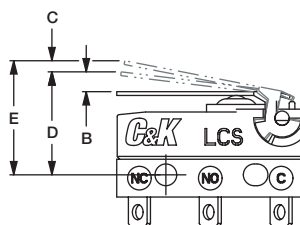
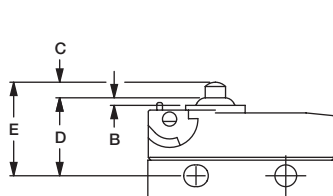
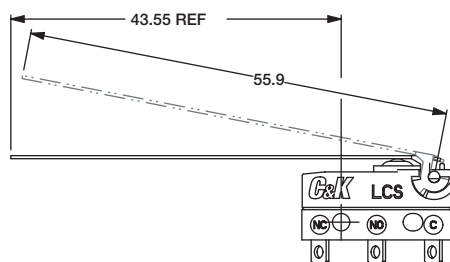
S26



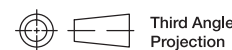
T05



T43



ACTUATOR OPTION CODE	A LENGTH OF LEVER	B OVER TRAVEL (MIN)	C PRE TRAVEL (MAX)	D OPERATING POSITION	E FREE POSITION (MAX)	DIFFERENTIAL MOTION (MAX)	OPERATING FORCE (MAX)	RELEASE FORCE (MIN)
						203	203	203
P00	N/A	0.6	1.2	8.4 ± 3	9.9	0.2	203	50
T00	11.9	0.6	3.2	8.8 ± 9	11.1	0.5	98	21
T05	17.40	0.9	4.3	8.8 ± 1.1	12	0.6	82	16
T07	19.40	1	4.8	8.8 ± 1.2	12.4	0.7	66	13
T13	25.5	1.6	6.3	8.8 ± 1.6	13.5	0.9	54	11
T19	33.3	1.95	8	8.8 ± 2.0	15	1.75	40	5
T28	40.7	2.1	10.1	8.8 ± 2.6	16.3	2.3	39	8
T43	55.9	2.9	13.8	8.8 ± 3.5	19.1	3.6	33	7
S26	18.6	1	4.6	10.7 ± 1.2	14.1	0.65	68	14
A05	17.20	0.9	4.3	14.5 ± 1.1	17.7	0.6	72	15



Dimensions are shown: mm

Specifications and dimensions subject to change

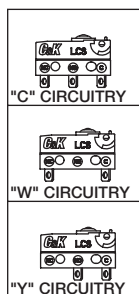
C&K

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J-46

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TERMINATIONS

[illegible]

Technical drawings of the LCS component showing top, side, and recommended mounting views with dimensions.

Top View: Shows the component with three pins labeled NC, ND, and C. The distance between the center of the NC pin and the center of the ND pin is 7.5 ± 0.2 TYP. The distance between the center of the ND pin and the center of the C pin is 7.5 ± 0.1 TYP. The distance between the center of the NC pin and the center of the C pin is 15 ± 0.1 . The pin diameter is $3 \times \phi 1.35/1.5$.

Side View: Shows the component height, which is 6.4 TYP.

Recommended Mounting Pattern: Shows the recommended mounting pattern with dimensions: 0.6 TYP for the pin diameter and 0.5 ± 0.05 TYP for the mounting hole diameter.

Technical drawing of the LCS connector showing front and side views with dimensions and labels.

Front View Dimensions:

- Total height: 15.95
- Height of the top section: 8.5

Labels and Markings:

- Top left: **G&K**
- Top center: **LCS**
- Top right: Circular logo with a stylized 'G' and 'K'.
- Below the top section, three circular markings: **NC** (with a crosshair), **NO** (with a plus sign), and **C** (with a crosshair).

Side View Dimensions:

- Total height: 304.8 ± 6.4
- Height of the bottom section: 3 ± 1

Other Labels:

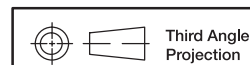
- POTTING "W" OPTION SHOWN** (with an arrow pointing to the main body of the connector).
- C: GRAY NO: BLUE NC: BLACK** (with arrows pointing to the three pins).

Figure 1: Dimensions of the LCS module. The diagram shows two views of the module. The front view on the left indicates a height of 8.5, a width of 21.3, and a pin pitch of 12±0.1. It also shows a 3±1 dimension for the pin length. The side view on the right shows a depth of 6.4. Labels include 'G&K', 'LCS', 'NO', 'C', 'BLACK COM', and 'BLUE NO'.

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CIRCUITRY

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



C&K