

# K6

## Miniature Key Switches



### Features/Benefits

- **Excellent tactile feel**
- **Wide variety of LED's, travel and actuation forces**
- **Designed for low-level switching**
- **Detector version available**
- **RoHS compliant**

### Typical Applications

- **Automotive**
- **Industrial electronics**
- **Computers and network equipment**

### Construction

FUNCTION: momentary action  
CONTACT ARRANGEMENT: 1 make contact = SPST, N.O.  
DISTANCE BETWEEN BUTTON CENTERS:  
min. 7,5 and 11,8 (0.295 and 0.465)  
TERMINALS: Snap-in pins, tinned  
MOUNTING: Soldered by PC pins, locating pins  
PC board thickness: 1,5 (0.0591)

### Mechanical

TOTAL TRAVEL/SWITCHING TRAVEL: 1,5/0,9 (0.059/0.035)  
PROTECTION CLASS: IP 40 according to DIN/IEC 529

1) Voltage rise: 300 V/s  
2) According to DIN 41640; IEC 512-2  
3) Higher values upon request

### Packaging

THT: bulk in boxes of 500 pieces  
SMT: bulk in boxes of 500 pieces  
reels of 500 pieces (with LED) or 750 pieces (without LED)

### Electrical

SWITCHING POWER MIN./MAX.: 0.02 mW / 3 W DC  
SWITCHING VOLTAGE MIN./MAX.: 2 V DC / 30 V DC  
SWITCHING CURRENT MIN./MAX.: 10  $\mu$ A / 100 mA DC  
DIELECTRIC STRENGTH (50 Hz)<sup>1) 2)</sup>:  $\geq 300$  V  
OPERATING LIFE:  $\geq 2 \times 10^5$  operations<sup>3)</sup>  
 $\geq 1 \times 10^5$  operations for SMT version  
CONTACT RESISTANCE: Initial  $\leq 50$  m $\Omega$   
INSULATION RESISTANCE:  $\geq 10^{10} \Omega$   
BOUNCE TIME:  $\leq 1$  ms  
Operating speed 100 mm/s (3.94/s)

### Environmental

OPERATING TEMPERATURE: -40°C to 85°C.  
STORAGE TEMPERATURE: -40°C to 95°C.

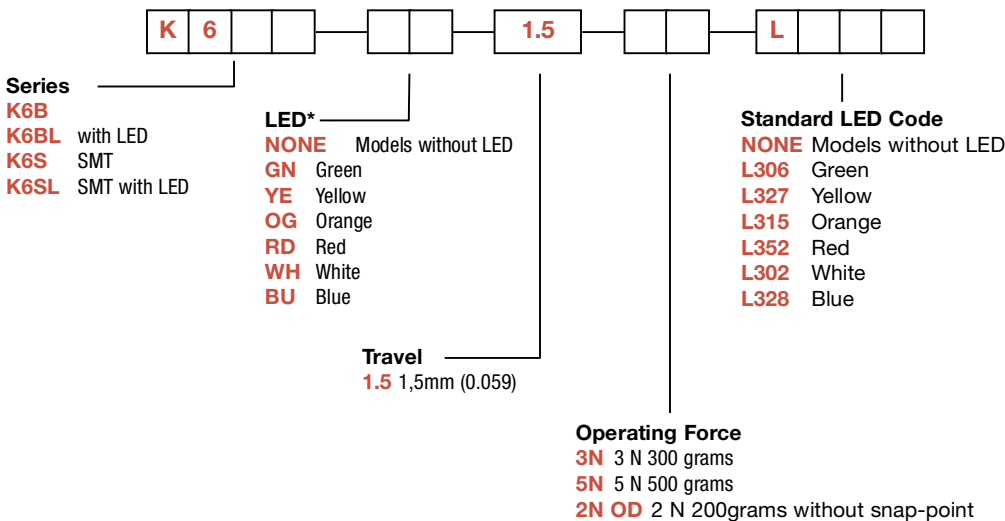
### Process

SOLDERABILITY:  
THT: wave soldering, compatible with lead free soldering profile  
Hand soldering, 350°C for 3s  
SMT: not compatible with lead free reflow profile  
245°C for 5s

### How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

Note: Some of the configurations may not be available or could require some development.



\* Additional LED colors available by request.



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

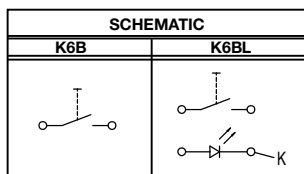
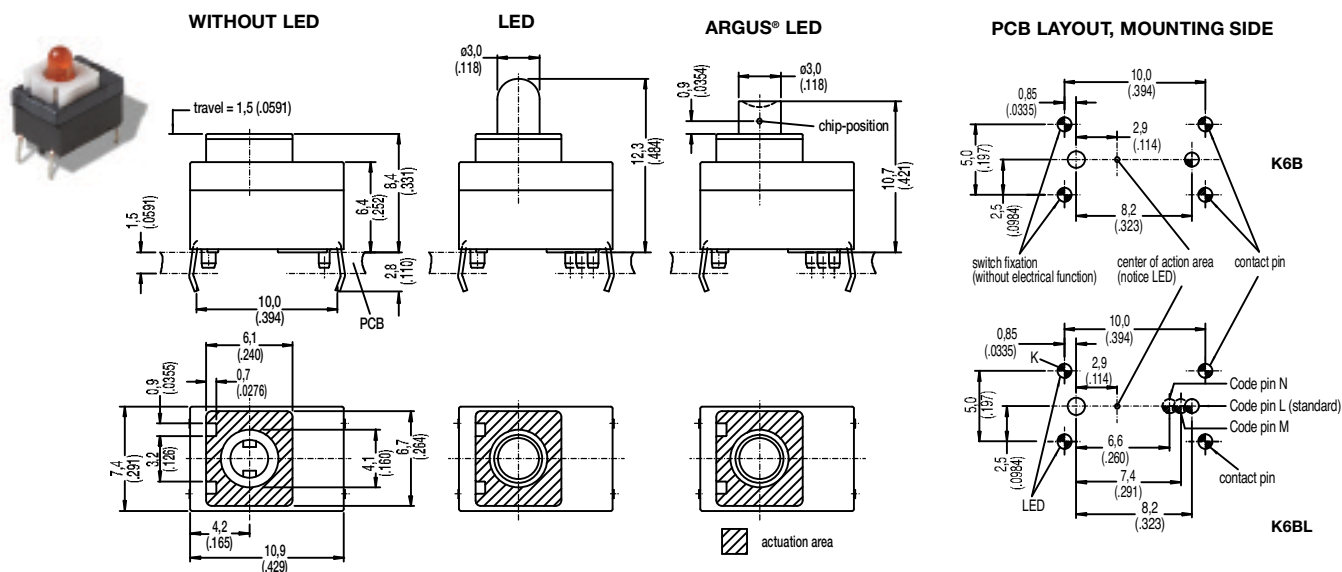


# K6 Miniature Key Switches

SERIES

**K6B** WITHOUT LED

**K6BL** WITH LED

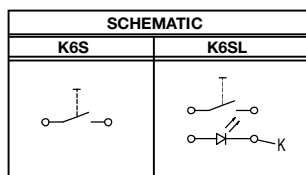
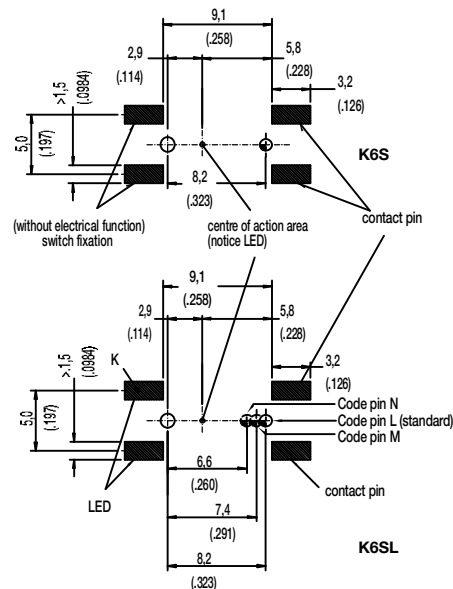


Hole	Ø	Without LED	With LED	Description	Terminal Section	Surface
	1,2+0,1 (.0471+.00349)	1x	1x	center hole		
	0,9+0,1 (.0354+.00349)	1x	1x	code (L,M,N)		
	1,0+0,1 (.0354+.00349)	4x	2x	LED switch	0,6 x 0,3 (.0236 x .0118)	SnPb

**K6S** WITHOUT LED

**K6SL** WITH LED

PCB LAYOUT, MOUNTING SIDE



Hole	Ø	Without LED	With LED	Description
	1,2+0,1 (.0471+.00349)	1x	1x	center hole
	0,9+0,1 (.0354+.00349)	1x	1x	code (L,M,N)



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

[www.ck-components.com](http://www.ck-components.com)

K6

Miniature Key Switches

LED

OPTION CODE	COLOR
NONE	Models without LED
GN	Green
YE	Yellow
OG	Orange
RD	Red
WH	White
BU	Blue

Additional LED colors available by request

STANDARD LED CODE	COLOR
NONE	Models without LED
L306	Green
L327	Yellow
L315	Orange
L352	Red
L302	White
L328	Blue

TRAVEL

1.5 1.5 MM

OPERATING FORCE

OPTION CODE	OPERATING FORCE
3N	3 N, 300 g
5N	5 N, 500 g
2N OD	2 N, 200g without snap-point



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