



# KLS Illuminated SPDT/DPDT Pushbutton

**NEW**

Pushbutton  
A



## Features/Benefits

- Positive tactile feedback
- Momentary or Lock version
- SPDT & DPDT configuration
- Gold or silver contact materials
- Choices of color on LED illumination
- 3 different CAP styles & sizes
- CAP with printed or etched logo\*

## Typical Applications

- Audio/video system
- Vending machine
- Kiosks
- Network equipment

## Specifications

FUNCTION: SPDT, DPDT  
CONTACT ARRANGEMENT: N.C.  
MOUNTING TYPE: Straight PCB terminals

## Mechanical

OPERATING LIFE: 1,000,000 cycles  
TOTAL TRAVEL: 2.2 mm  
OPERATING FORCE: 200 ± 100 gf (SPDT)  
300 ± 150 gf (DPDT)

## Electrical

CONTACT RATING; See table on contact material  
OPERATING LIFE: 200,000 cycles on both gold & silver plating  
DIELECTRIC STRENGTH: 1,000 V AC for 1 min.  
INSULATION RESISTANCE: 100 MΩ min. @ 500 VDC  
INITIAL CONTACT RESISTANCE: 50 mΩ max. (silver contact)  
100 mΩ max/ (gold contact)

## Materials

CASE: PA66+70G33L (Black)  
ACTUATOR: POM (White)  
CAP: PC  
SPRING: Black wire / Stainless steel  
SPRING PLATE: Phosphor bronze  
TERMINALS / CONTACT: Brass / Copper with silver or gold plated  
TERMINAL SEAL: Epoxy

## Operating Environment

OPERATING TEMPERATURE: -40°C to +85°C

**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 it in the appropriate box.

|                                                                                                               |  |                                                                                                      |  |                                                                                                                                                     |  |                                                                                                                                            |  |                                                                                                                                             |  |
|---------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>K</b> <b>L</b> <b>S</b> </div> |  |                                                                                                      |  |                                                                                                                                                     |  |                                                                                                                                            |  |                                                                                                                                             |  |
| <b>Series</b><br><b>KLS12</b> SPDT<br><b>KLS22</b> DPDT                                                       |  | <b>Cap Style</b><br><b>F</b> Square flat<br><b>C</b> Square concave<br><b>L</b> Square large concave |  | <b>Cap Color*</b><br><b>0</b> Transparent<br><b>3</b> Red<br><b>5</b> Yellow<br><b>6</b> Green<br><b>7</b> Blue<br><b>8</b> Grey<br><b>9</b> Silver |  | <b>LED Illumination (Pos. I)</b><br><b>0</b> Without<br><b>3</b> Red<br><b>5</b> Yellow<br><b>6</b> Green<br><b>7</b> Blue<br><b>R</b> RGB |  | <b>LED Illumination (Pos. II)</b><br><b>0</b> Without<br><b>3</b> Red<br><b>5</b> Yellow<br><b>6</b> Green<br><b>7</b> Blue<br><b>R</b> RGB |  |
|                                                                                                               |  | <b>Contact Material</b><br><b>Q</b> Gold/Silver<br><b>G</b> Gold                                     |  | <b>Mechanical Function</b><br><b>A</b> Momentary<br><b>E</b> Lock                                                                                   |  |                                                                                                                                            |  |                                                                                                                                             |  |

\* For CAP with logo or symbol, please contact your sales representative.



26 Jul 19

Dimensions are shown: mm  
Specifications and dimensions subject to change

NEW

# KLS Illuminated SPDT/DPDT Pushbutton

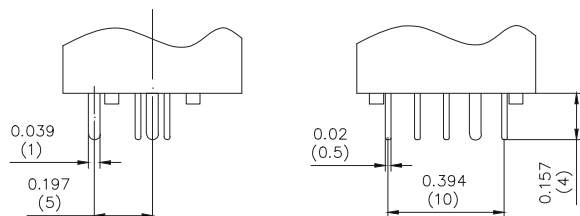


A

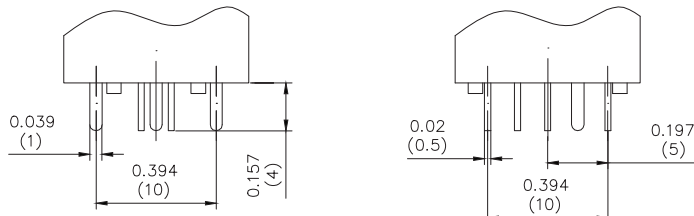
Pushbutton

## SERIES

### KLS12



### KLS22

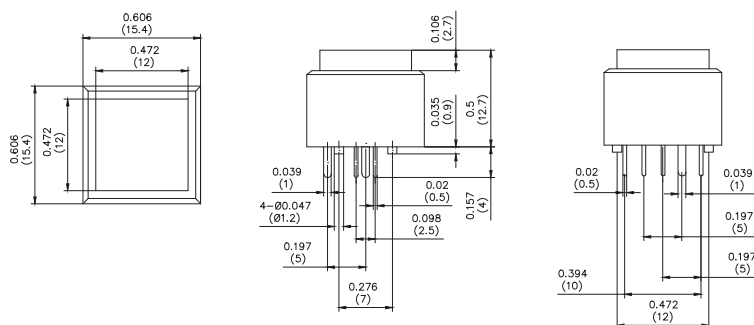


| NO. POLES | MODEL NO. | SWITCH FUNCTION |        | CONNECTED TERMINALS |         | SCHEMATIC |
|-----------|-----------|-----------------|--------|---------------------|---------|-----------|
|           |           | POS. 1          | POS. 2 | POS. 1              | POS. 2  |           |
|           |           |                 |        |                     |         |           |
| SP        | KLS12     | ON              | (ON)   | 1-3                 | 1-2     |           |
| DP        | KLS22     | ON              | (ON)   | 1-3,4-6             | 1-2,4-5 |           |
|           |           | ON              | ON     |                     |         |           |

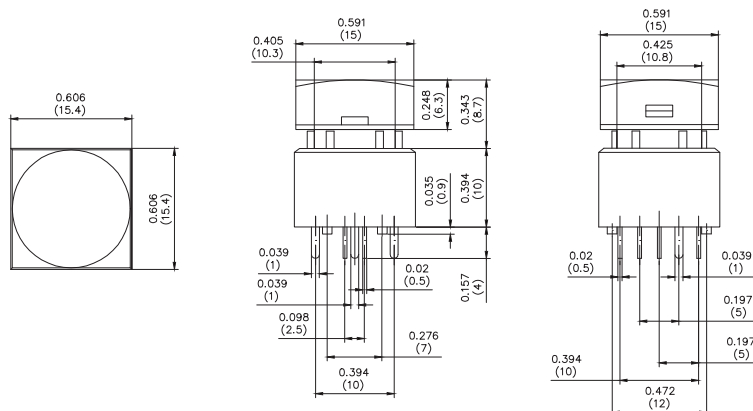
( )=Momentary

## CAP

### F SQUARE FLAT



### C SQUARE CONCAVE



Third Angle Projection

Dimensions are shown: mm

Specifications and dimensions subject to change

C&amp;K

26 Jul 19

D-173

www.ckswitches.com

## KLS Illuminated SPDT/DPDT Pushbutton

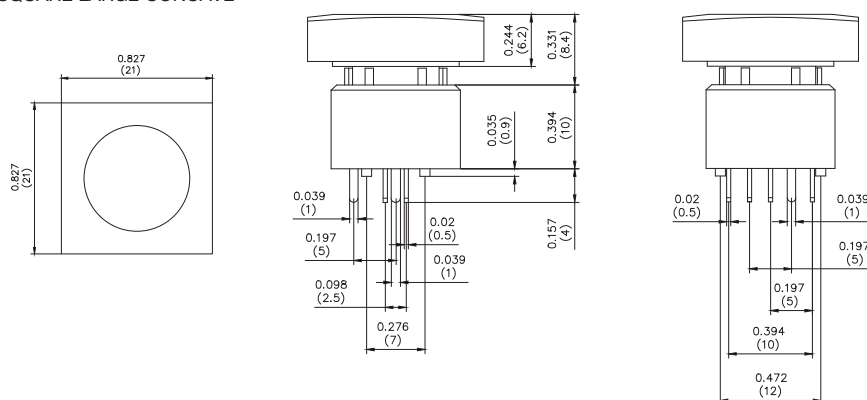
NEW

# Pushbutton A

A

CAP

**L** SQUARE LARGE CONCAVE

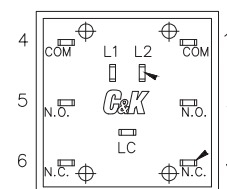
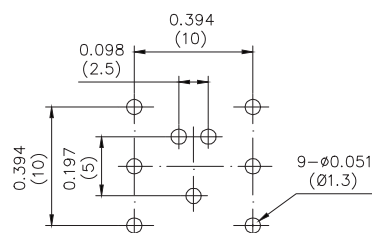
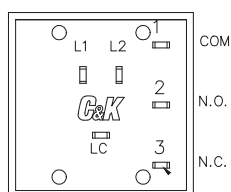
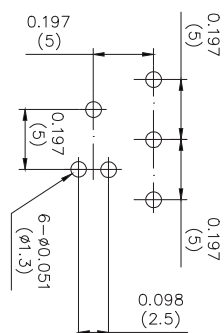


## TERMINATION

## PCB LAYOUT

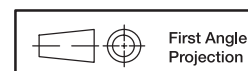
**KLS12**

**KLS22**



## CONTACT MATERIAL

| Option Code | Contact Material                                          | Terminal Plating | Rating           |
|-------------|-----------------------------------------------------------|------------------|------------------|
| <b>Q</b>    | Copper / Gold <sup>1</sup><br>Brass / Silver <sup>2</sup> | Silver           | 25VDC<br>500 mA  |
| <b>G</b>    | Copper, Gold                                              | Copper, Gold     | 28 VDC<br>100 mA |

<sup>1</sup> Movable contact<sup>2</sup> Stationary contact

Dimensions are shown: mm  
Specifications and dimensions subject to change

[www.ckswitches.com](http://www.ckswitches.com)