

# DIGITAST

## Microminiature SPDT, Key Switches



### Features/Benefits

- High reliability/long life
- Designed for low level switching
- Ready to implement on PCB
- Latching function available
- Several button options
- RoHS compliant and compatible

### Typical Applications

- Medical
- Instrumentation
- Industrial electronics
- Audio electronics

### Construction

FUNCTION: momentary or push-push  
 CONTACT ARRANGEMENT: 1 change over contact SPDT, NO  
 MODE OF SWITCHING: Non-shorting  
 DISTANCE BETWEEN BUTTON CENTERS:  
 HORIZONTAL MINIMUM: 12,7 (0.500) or 17,78 (0.700)  
 VERTICAL MINIMUM: 17,78 (0.700)  
 TERMINALS: PC pins  
 MOUNTING: Soldering, centering pins

### Mechanical

TOTAL TRAVEL: ≤ 3 (.0018)  
 SWITCHING TRAVEL: 1,5 (0.0591)  
 LATCHING TRAVEL: 1,8 (0.0709)  
 OPERATING FORCE: 1.5 +/- 0.5 N (150 +/- 50 grams)

### Process

SOLDERABILITY:  
 Wave soldering, compatible with lead free soldering profile  
 Hand soldering, 350°C for 3 seconds

### Electrical

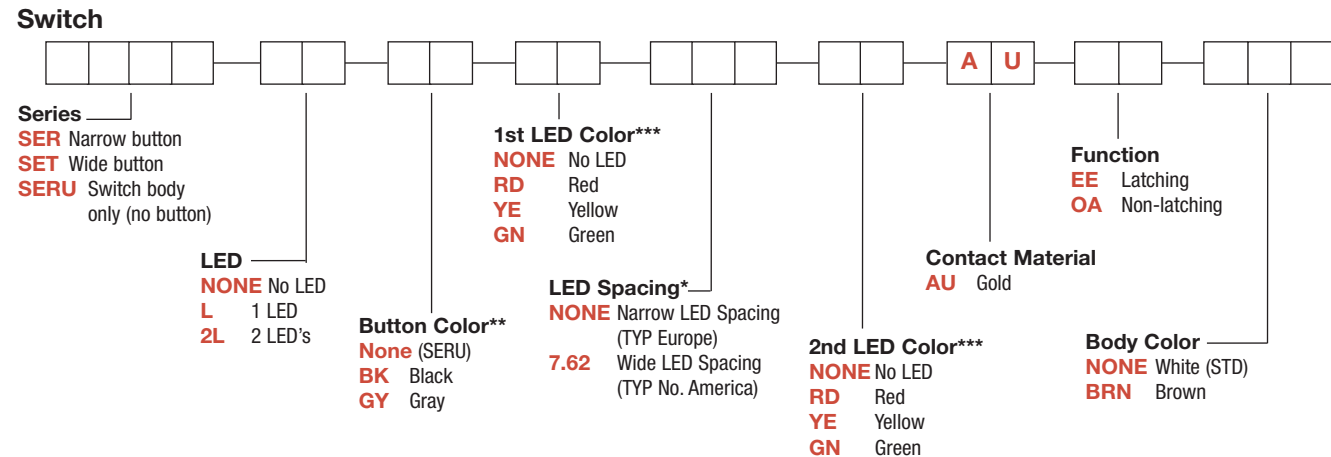
SWITCHING POWER MAX.: 240 mW DC  
 SWITCHING VOLTAGE MAX.: 24 V DC  
 SWITCHING CURRENT MAX.: 10 mA DC  
 CARRYING CURRENT AT 20°C (push-push version): 100 mA  
 DIELECTRIC STRENGTH (50 Hz, 1 min): 500 V  
 OPERATING LIFE with or without max. switching power  
 Momentary: ≥ 5 x 10<sup>6</sup> operations  
 Push-push: ≥ 5 x 10<sup>5</sup> operations  
 CONTACT RESISTANCE: Initial ≤ 50 mΩ  
 After 5 x 10<sup>6</sup> operations: ≤ 100 mΩ  
 INSULATION RESISTANCE: ≥ 10<sup>10</sup> Ω  
 CAPACITANCE at f= 10 kHz: ≤ 0.8pF  
 BOUNCE TIME: ≤ 2.5 ms  
 Operating speed 400 mm/s (15.75/s)

### Environmental

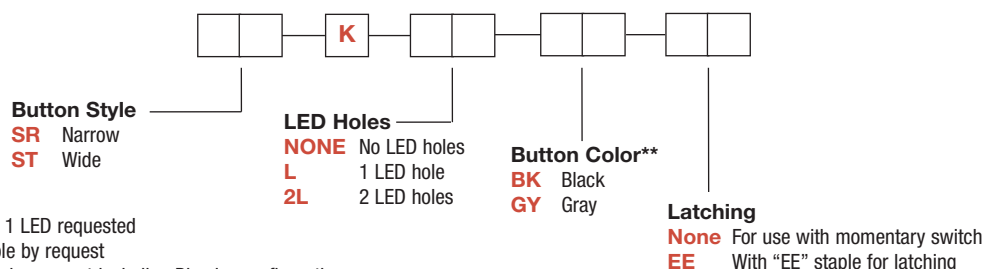
OPERATING TEMPERATURE: -25°C to 85°C.

### 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. **Some of the configurations may not be available or could require some development.**



### Button



\* LED spacing only applies when 1 LED requested  
 \*\* Additional button colors available by request  
 \*\*\* Additional LED colors available by request including Bi color configurations

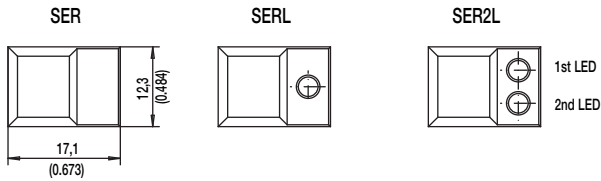
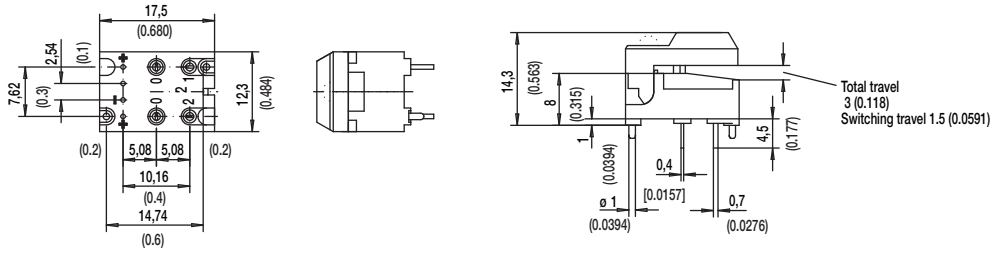


Dimensions are shown: mm  
 Specifications and dimensions subject to change

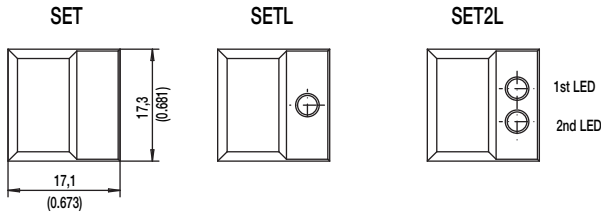
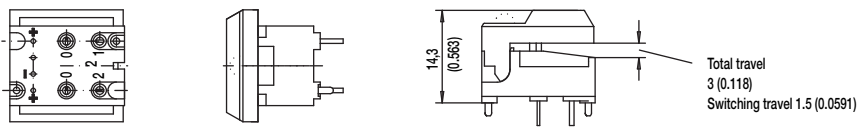
# DIGITAST Microminiature SPDT, Key Switches

DESIGNATION

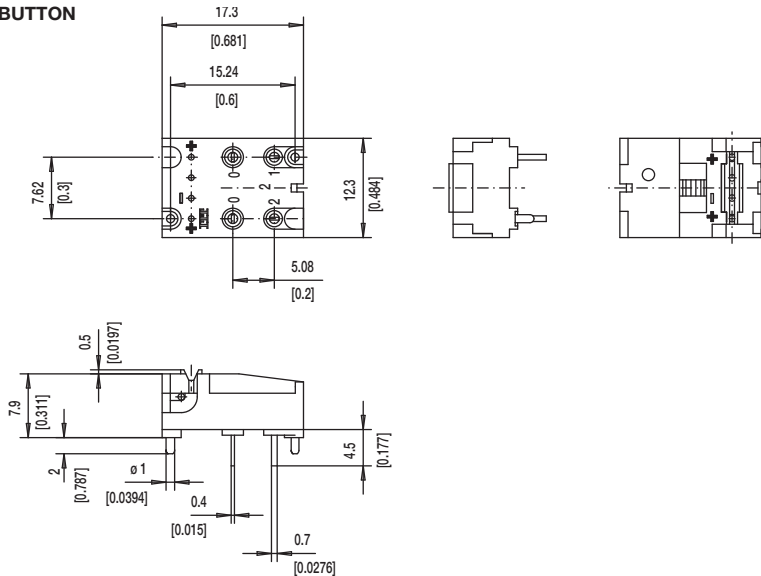
## SER NARROW BUTTON



## SET WIDE BUTTON



## SERU NO BUTTON



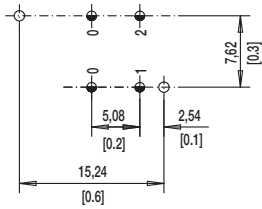
Dimensions are shown: mm  
Specifications and dimensions subject to change

# DIGITAST

## Microminiature SPDT, Key Switches

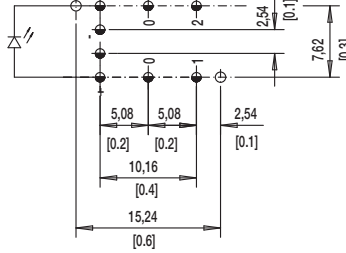
### LED

#### NONE NO LED

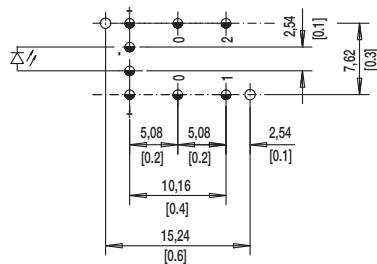


#### L 1 LEDs

7.62 mm Spacing (TYP No. America)

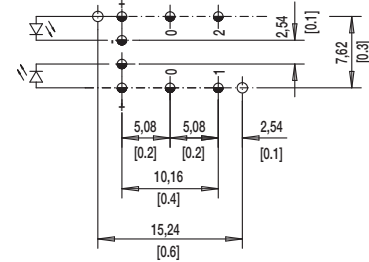


NARROW SPACING (TYP EUROPE)



TOP VIEW OF PCB

#### 2L 2 LEDs



⌀ 1.0±0.1 (0.0394±0.00349)

⌀ 1.1±0.05 (0.0433±0.00197)

### BUTTON COLOR

**BK** BLACK

**GY** GRAY

Other button colors available by request [red (RD), green (GN), white (WH), yellow (YE), blue (BU), orange (OG)].

### LED COLOR

| OPTION CODE | COLOR              |
|-------------|--------------------|
| <b>NONE</b> | Models without LED |
| <b>RD</b>   | Red                |
| <b>GN</b>   | Green              |
| <b>YE</b>   | Yellow             |

### CONTACT MATERIAL

| OPTION CODE | MATERIAL |
|-------------|----------|
| <b>AU</b>   | Gold     |

### FUNCTION

| OPTION CODE | COLOR     | SCHEMATIC |
|-------------|-----------|-----------|
| <b>OA</b>   | Momentary |           |
| <b>EE</b>   | Push-Push |           |



Dimensions are shown: mm  
Specifications and dimensions subject to change



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Key Switches