

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

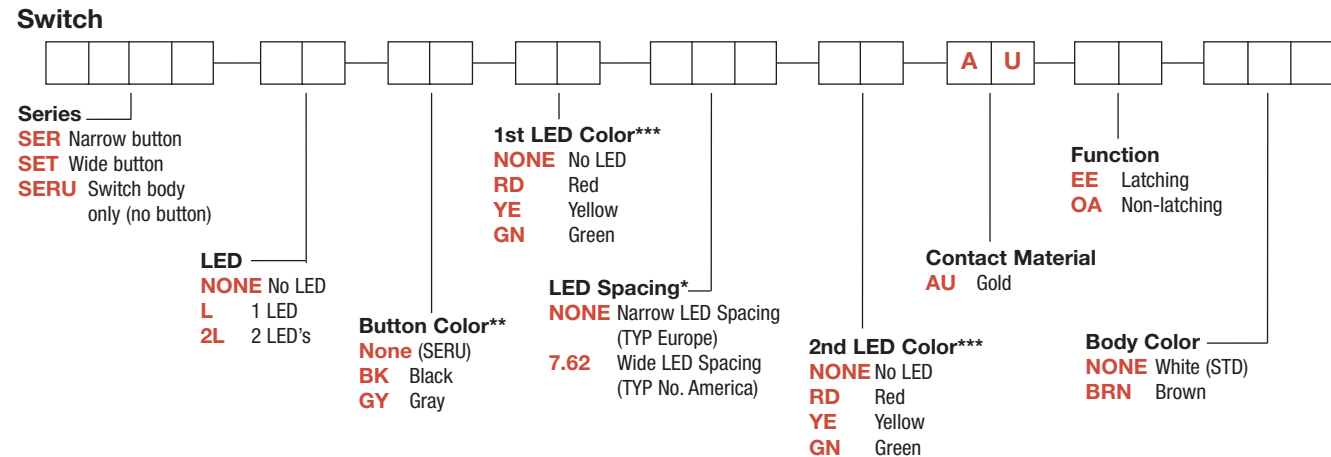
SWITCHING POWER MAX.: 240 mW DC
 SWITCHING VOLTAGE MAX.: 24 V DC
 SWITCHING CURRENT MAX.: 10 mA DC
 CARRYING CURRENT AT 20°C (push-push version): 100 mA
 DIELECTRIC STRENGTH (50 Hz, 1 min): 500 V
 OPERATING LIFE with or without max. switching power
 Momentary: ≥ 5 x 10⁶ operations
 Push-push: ≥ 5 x 10⁵ operations
 CONTACT RESISTANCE: Initial ≤ 50 mΩ
 After 5 x 10⁶ operations: ≤ 100 mΩ
 INSULATION RESISTANCE: ≥ 10¹⁰ Ω
 CAPACITANCE at f= 10 kHz: ≤ 0.8pF
 BOUNCE TIME: ≤ 2.5 ms
 Operating speed 400 mm/s (15.75/s)

Environmental

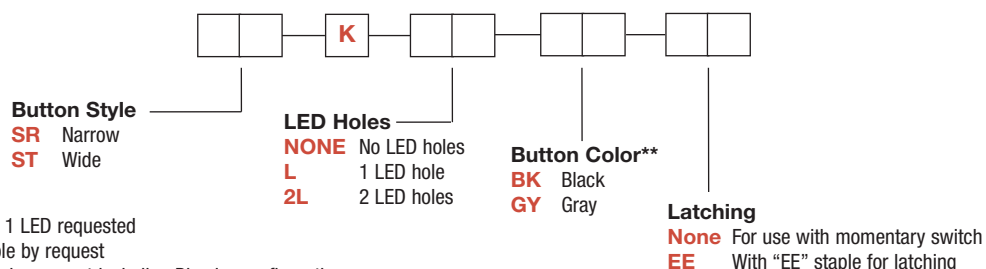
OPERATING TEMPERATURE: -25°C to 85°C.

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

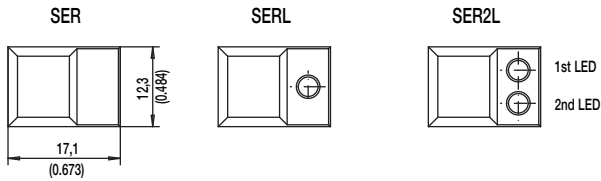
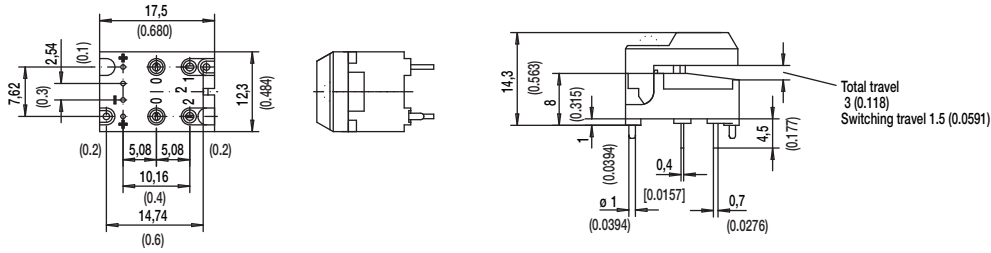


Dimensions are shown: mm
 Specifications and dimensions subject to change

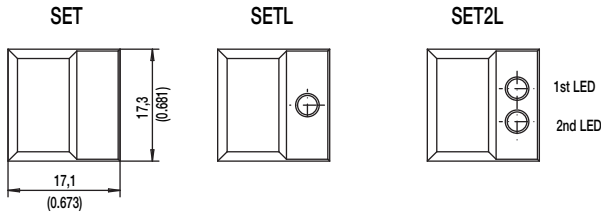
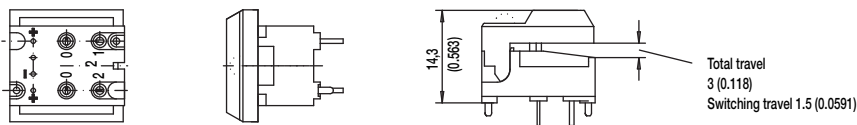
DIGITAST Microminiature SPDT, Key Switches

DESIGNATION 

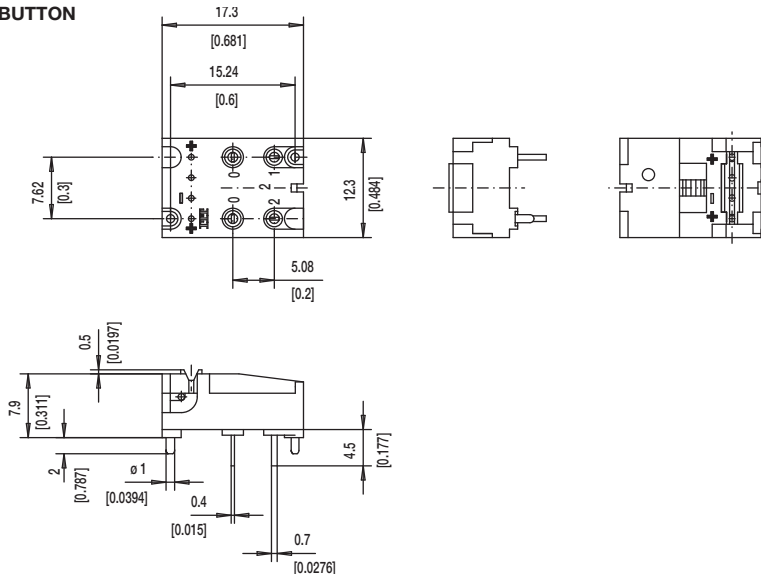
SER NARROW BUTTON



SET WIDE BUTTON



SERU NO BUTTON



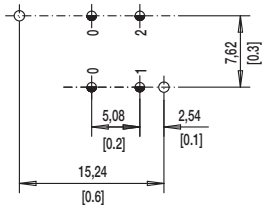
Dimensions are shown: mm
Specifications and dimensions subject to change

DIGITAST

Microminiature SPDT, Key Switches

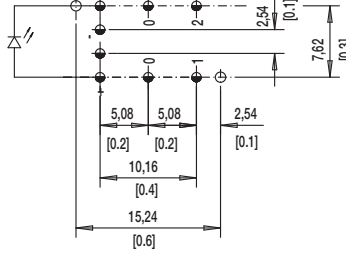
LED

NONE NO LED

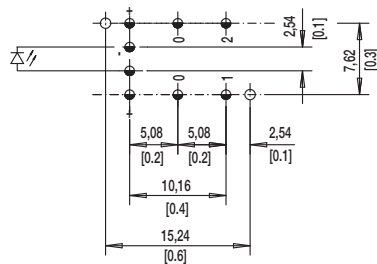


L 1 LEDs

7.62 mm Spacing (TYP No. America)

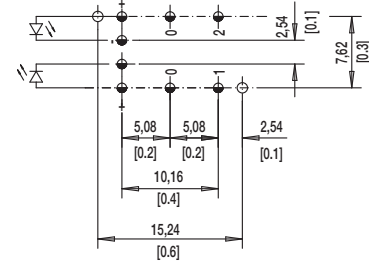


NARROW SPACING (TYP EUROPE)



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 |
|-------------|--------------------|
| NONE | Models without LED |
| RD | Red |
| GN | Green |
| YE | Yellow |

CONTACT MATERIAL

| OPTION CODE | MATERIAL |
|-------------|----------|
| AU | Gold |

FUNCTION

| OPTION CODE | COLOR | SCHEMATIC |
|-------------|-----------|-----------|
| OA | Momentary | |
| EE | Push-Push | |



Dimensions are shown: mm
Specifications and dimensions subject to change



D

Key Switches