

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: Max. soldering time and temperature: 5 s at 260°C

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: $\geq 5 \times 10^6$ operations
Push-push: $\geq 5 \times 10^5$ operations
CONTACT RESISTANCE: Initial ≤ 50 m Ω
After 5×10^6 operations: ≤ 100 m Ω
INSULATION RESISTANCE: $\geq 10^{10}$ Ω
CAPACITANCE at f = 10 kHz: ≤ 0.8 pF
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.

Switch

<div>Series</div> <div>SER Narrow button</div> <div>SET Wide button</div> <div>SERU Switch body only (no button)</div>	<div>LED</div> <div>NONE No LED</div> <div>L 1 LED</div> <div>2L 2 LED's</div>	<div>Button Color**</div> <div>None (SERU)</div> <div>BK Black</div> <div>GY Gray</div>	<div>1st LED Color</div> <div>NONE No LED</div> <div>RD Red</div> <div>YE Yellow</div> <div>GN Green</div>	<div>LED Spacing*</div> <div>NONE Narrow LED Spacing (TYP Europe)</div> <div>7.62 Wide LED Spacing (TYP No. America)</div>	<div>2nd LED Color</div> <div>NONE No LED</div> <div>RD Red</div> <div>YE Yellow</div> <div>GN Green</div>	<div>Contact Material</div> <div>AU Gold</div>	<div>Function</div> <div>EE Latching</div> <div>OA Non-latching</div>	<div>Body Color</div> <div>NONE White (STD)</div> <div>BRN Brown</div>
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* LED spacing only applies when 1 LED requested

Button

<div>Button Style</div> <div>SR Narrow</div> <div>ST Wide</div>	<div>LED Holes</div> <div>NONE No LED holes</div> <div>L 1 LED hole</div> <div>2L 2 LED holes</div>	<div>Button Color**</div> <div>BK Black</div> <div>GY Gray</div>	<div>Latching</div> <div>None For use with momentary switch</div> <div>EE With "EE" staple for latching</div>
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** Additional button colors available by request



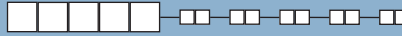
Dimensions are shown: mm (inch)
Specifications and dimensions subject to change

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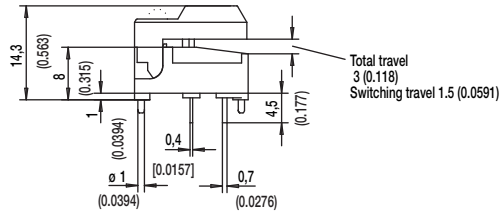
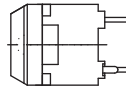
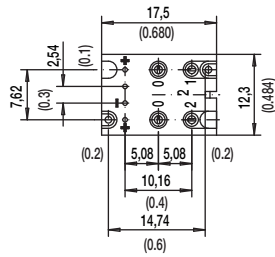
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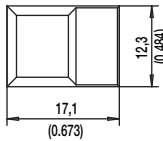
DESIGNATION



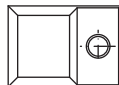
SER NARROW BUTTON



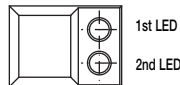
SER



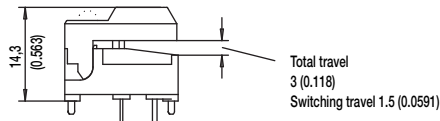
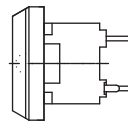
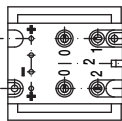
SERL



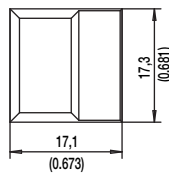
SER2L



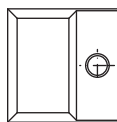
SET WIDE BUTTON



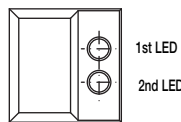
SET



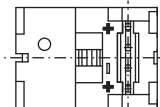
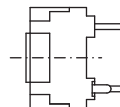
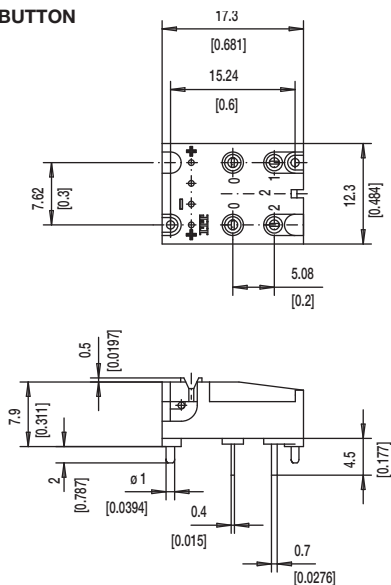
SETL



SET2L



SERU NO BUTTON



First Angle
Projection

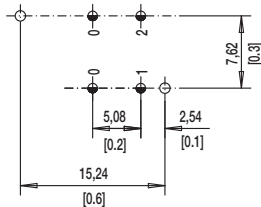
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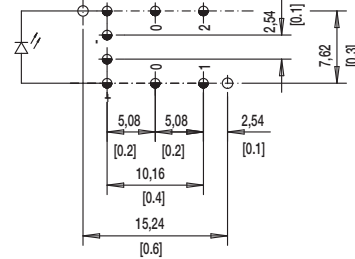
LED

NONE NO LED

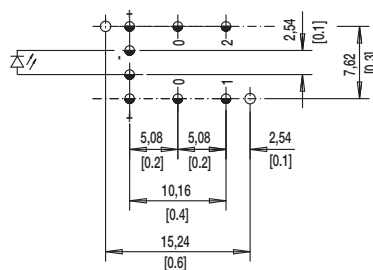


L 1 LEDs

7.62 mm Spacing (TYP No. America)

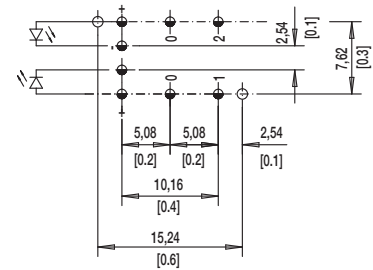


NARROW SPACING (TYP EUROPE)



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

NOTE: For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

FUNCTION

OPTION CODE	COLOR	SCHEMATIC
OA	Momentary	
EE	Push-Push	



First Angle
Projection

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E

Key Switches