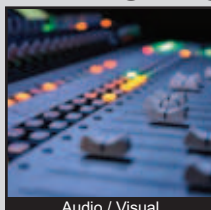


TL6400 SERIES TACT SWITCH

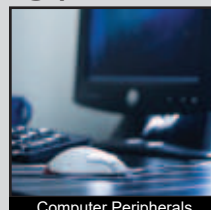
ANTI-VANDAL SWITCHES
DETECTOR SWITCHES
DIP SWITCHES
KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS



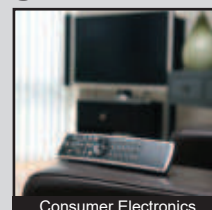
APPLICATIONS / MARKETS



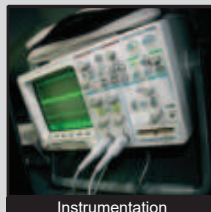
Audio / Visual



Computer Peripherals



Consumer Electronics



Instrumentation



Medical Equipment



Telecommunication

RoHS

SPECIFICATIONS

Electrical Rating: 50mA, 12VDC
Contact Resistance: 100mΩ Max. (Initial)
Insulation Resistance: 100MΩ Min. at 100VDC
Dielectric Strength: 250VAC for 1 Minute
Operating Temperature: -40°C to 85°C
Storage Temperature: -40°C to 85°C
Operating Force: 160gf ± 50gf 50,000 cycles
 260gf ± 70gf 30,000 cycles
Travel: 0.15mm ± 0.10mm
Dust/Moisture Protection: IP67
Function: SPST, Off-(On)
Bounce: 10msec Max.
Contact Material: Silver
Packaging: Actuator A: Tape and Reel, 1,800 pcs/reel
 Actuator B: Tape and Reel, 1,500 pcs/reel

FEATURES & BENEFITS

- Up to 50,000 cycle life expectancy
- Tape and Reel packaging
- Surface mount design
- Actuation force options
- IP67 rating for dust & moisture protection

PART NUMBER CONFIGURATOR

Series	Circuit	Actuator	Force	Plating	Termination
<input type="text" value="TL"/>	<input type="text" value="6400"/>	<input type="text" value="A"/>	<input type="text" value="F160"/>	<input type="text" value="Q"/>	<input type="text" value="J"/>
		A - 4.30 B - 5.00	F160 - 160 gf - Black F260 - 260 gf - White	Q - Silver	J - J-bend

Specifications subject to change without notice 4.15.2022



E-SWITCH®

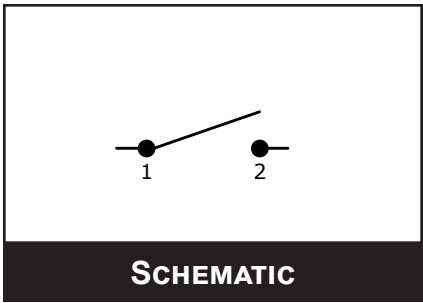
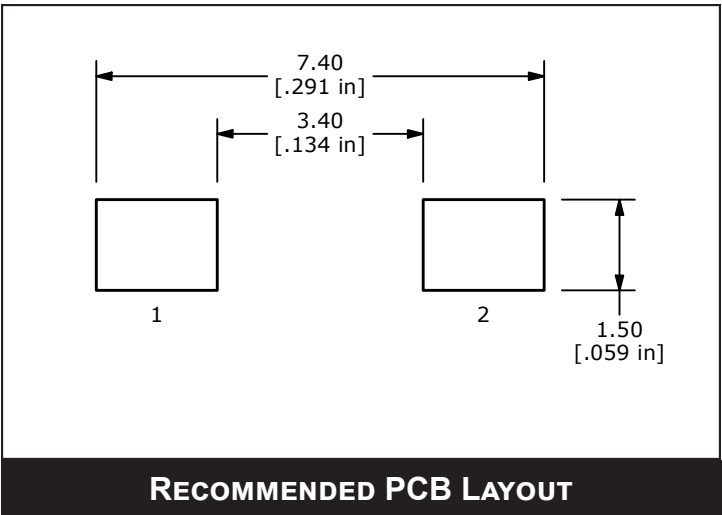
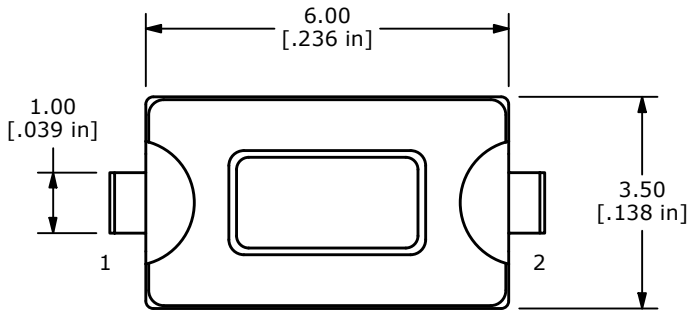
www.e-switch.com

800.867.2717

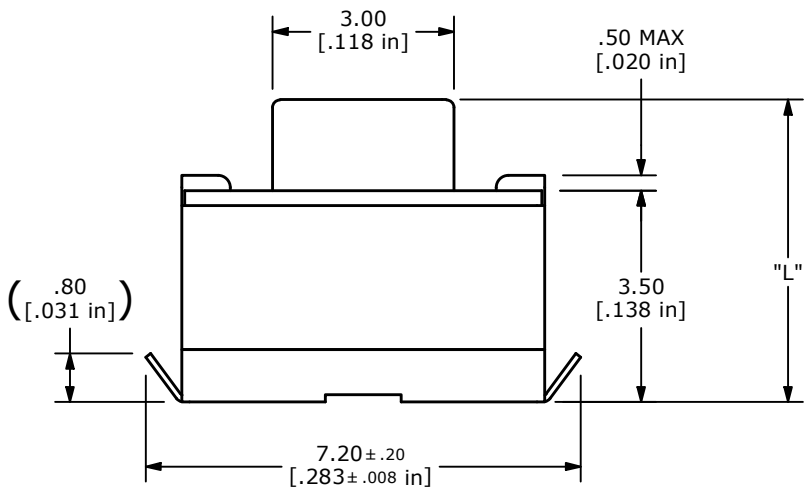
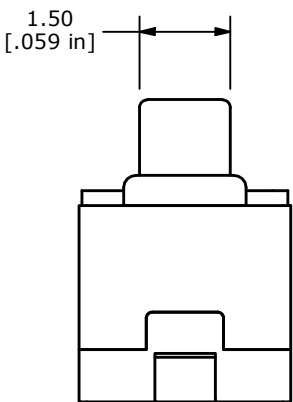
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TL6400 SERIES TACT SWITCH

BODY DIMENSIONS



ACTUATOR	"L"
A	4.30
B	5.00



TOGGLE	ROTARY	ROCKER	PUSHBUTTON	NAVIGATION	KEYLOCK	DIP
SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES
TACTILE	SLIDE	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES
CAP	SNAP ACTION	SNAP ACTION	SNAP ACTION	SNAP ACTION	SNAP ACTION	SNAP ACTION
OPTIONS	TOGGLE	TOGGLE	TOGGLE	TOGGLE	TOGGLE	TOGGLE
ANTI-VANDAL	ANTI-VANDAL	ANTI-VANDAL	ANTI-VANDAL	ANTI-VANDAL	ANTI-VANDAL	ANTI-VANDAL
SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES
DETECTOR	DETECTOR	DETECTOR	DETECTOR	DETECTOR	DETECTOR	DETECTOR
SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES	SWITCHES

Technical drawing of the actuator assembly showing top, side, and cross-sectional views with dimensions in inches and millimeters.

Top View Dimensions:

- Top edge offset: 1.75 [.069 in]
- Top edge offset: 7.50 [.295 in]
- Pin diameter: $\varnothing 1.50$ [$\varnothing .059$ in]
- Pin spacing (center-to-center): 2.00 [.079 in] and 4.00 [.157 in]
- Bottom edge offset: 16.00 [.630 in]
- Actuator width: 8.00 [.315 in]
- Actuator height: 9.50 [.374 in]
- Actuator offset from bottom edge: 4.60 [.181 in]
- Cover tape width: 13.3 [.5 in]

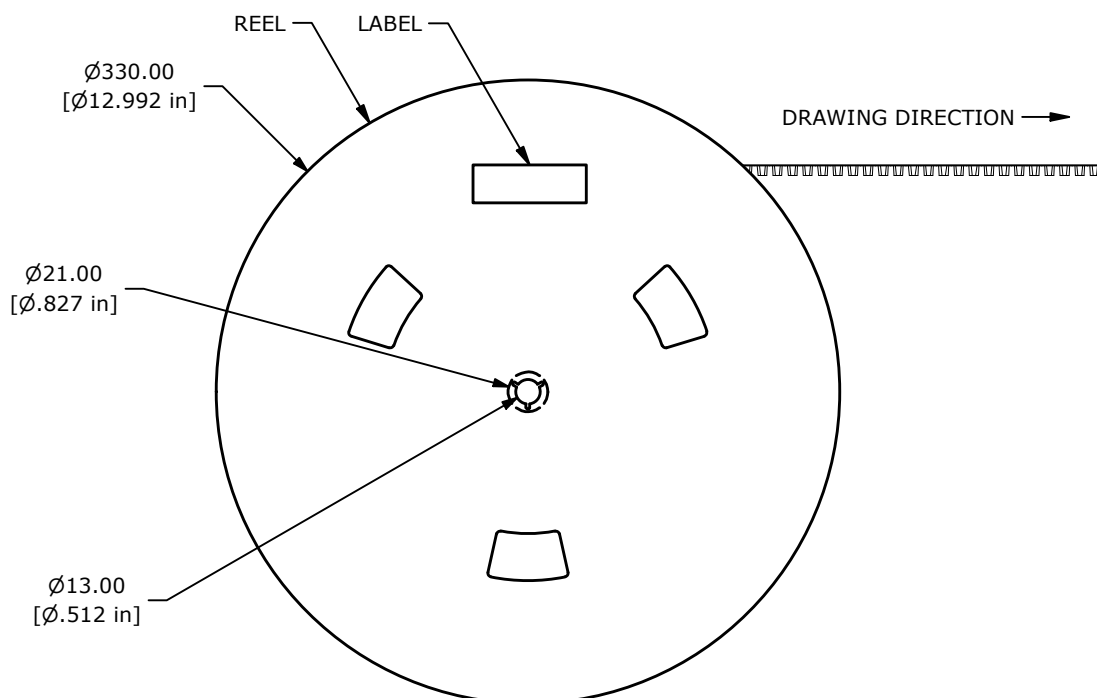
Side View Dimensions:

- Actuator height: 8.5 [.3 in]
- Actuator width: "L"

Cross-sectional View Dimensions:

- Actuator height: .35 [.014 in]

ACTUATOR	"L"
A	4.30



RECOMMENDED SOLDER PROCESS

Most contamination problems can be prevented by exercising care during the cleaning and soldering process. Care should be taken not to immerse or spray unsealed switches during flux removal. Contact E-Switch for specific soldering recommendations and specifications not shown. Generalized soldering procedures are outlined below.

“TYPICAL” SMT REFLOW (Pb and Pb-Free)

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Average Ramp-Up Rate ($T_{s_{max}}$ to T_p)	3 °C/second max.	3 °C/second max.
Preheat		
-Temperature Min ($T_{s_{min}}$)	100 °C	150 °C
-Temperature Max ($T_{s_{max}}$)	150 °C	200 °C
-Time ($t_{s_{min}}$ to $t_{s_{max}}$)	60-120 seconds	60-180 seconds
Time Maintained above:		
-Temperature (T_L)	183 °C	217 °C
-Time (t_L)	60-150 seconds	60-150 seconds
Time within 5 °C of actual Peak Temperature (t_p)	10-30 seconds	20-40 seconds
Ramp-Down Rate	6 °C/second max.	6 °C/second max.
Time 25 °C to Peak Temperature	6 minutes max.	8 minutes max.

Note 1: All temperatures refer to topside of the package, measured on the package surface.

