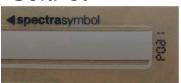


ThinPot



SoftPot



THINPOT



Features

- Linear Position Sensor
- Half the width of the SoftPot
- IP64 Dust Proof, Splash Proof
- Polyester Substrate
- 3M Pressure Sensitive Adhesive (PSA)
- Upon Request
- Male or Female Nicomatic or Berg Connectors
- Wiper of 0.7-2.2 Newton Force to Actuate Part

Mechanical Specifications

- -Life Cycle: >1 million -Height: ≤0.51mm (0.020")
- -Actuation Force (with a 6mm wide active cavity):

-40°C 0.9 to 2.2 N

-25°C 0.9 to 2.2 N

+23°C 0.7 to 1.8 N

+50°C 0.7 to 1.8 N

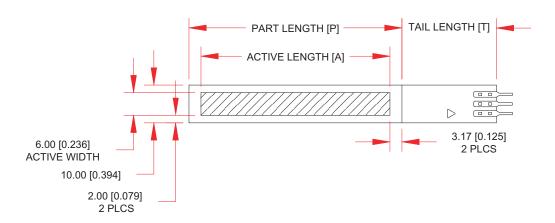
Environmental Specifications

- -Operating Temperature: -40°C to +50°C
- -Humidity: No affect @ 95% RH, 4hrs 50°C
- -IP Rating of Active Area: IP64

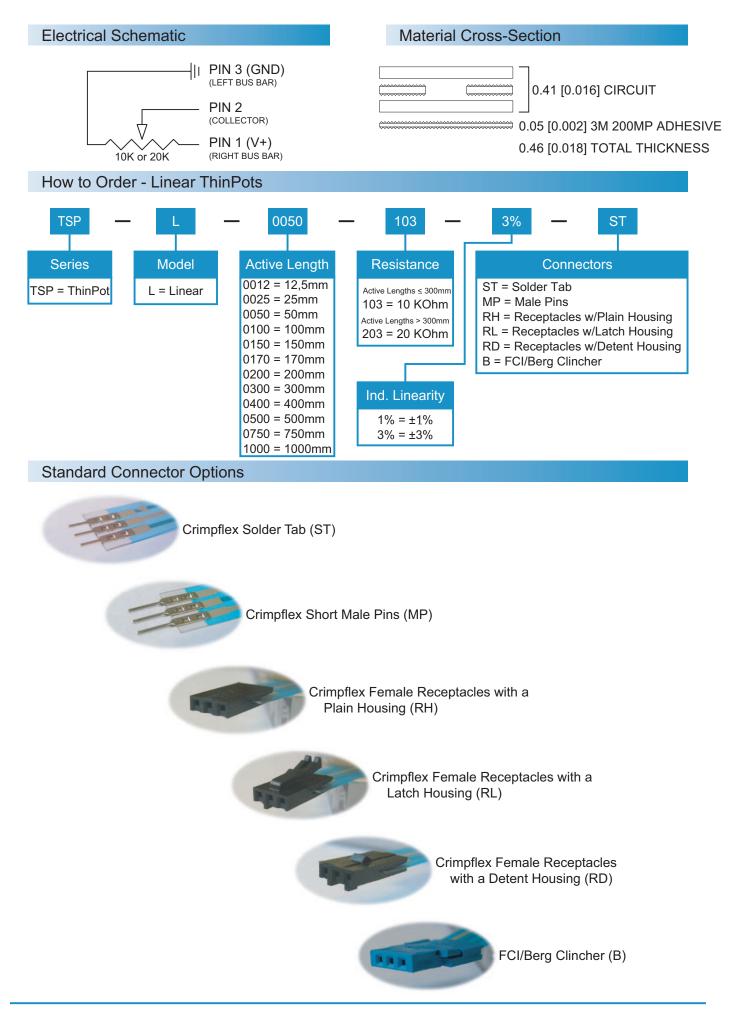
Electrical Specifications

- -Resistance Standard: 10k Ohms (lengths >300mm = 20k Ohms)
- -Resistance Custom: 1k to 100k Ohms
- -Resistance Tolerance: ±20%
- -Effective Electrical Travel: 8 to 2000mm
- -Linearity (Independent): Linear ±1% or ±3% Rotary ±3% or ±5%
- -Repeatability: No hysteresis, but with any wiper looseness some hysteresis will occur
- -Power Rating (depending on size, varies with length and temperature): 1 Watt max. @ 25°C, ≤0.5 Watt recommended
- -Resolution: Analog output theoretically infinite; affected by variation of contact wiper surface area.
- -Dielectric Value: No affect @ 500VAC for 1 minute

Dimensional Diagram - Stock Linear ThinPot



Α	12.50mm	25.00mm	50.00mm	100.00mm	150.00mm	170.00mm	200.00mm	300.00mm	400.00mm	500.00mm	750.00mm	1000.00mm
	0.492"	0.984"	1.969"	3.937"	5.906"	6.693"	7.874"	11.811"	15.748"	19.685"	29.528"	39.370"
Р	18.85mm	31.35mm	56.35mm	106.35mm	156.35mm	176.35mm	206.35mm	306.35mm	406.35mm	506.35mm	756.35mm	1006.35mm
	0.742"	1.234"	2.219"	4.187"	6.156"	6.943"	8.124"	12.061"	15.998"	19.935"	29.778"	39.620"
Т	12.70mm 0.500"		25.00mm 0.984"									



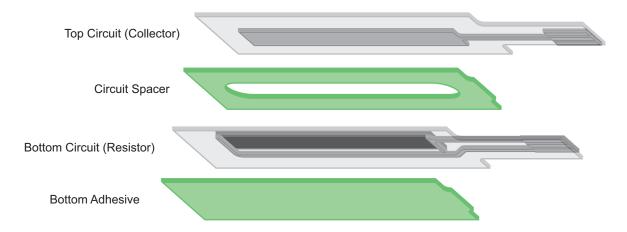
Customization

Customize the size, shape, and even the number of tracks. Such custom requests, for example, can be: multiple ganged sensors (up to 40 tracks); serpentine active area track; custom lengths 10mm-2000mm; custom rotary diameters, etc. Feel free to contact Spectra Symbol with your custom request at sales@spectrasymbol.com or (888)795-2283.

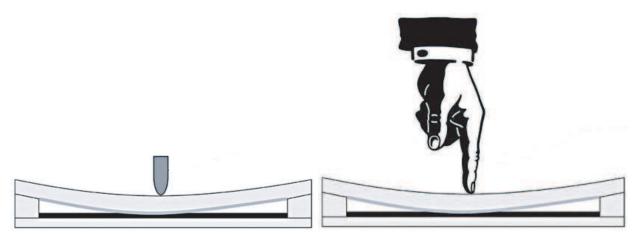
How It Works

In simple terms, the ThinPot membrane potentiometer is a resistive element, which comprises a conductive resistor, a sealed encasement and a simple wiper assembly. A membrane potentiometer can also function as a voltage divider.

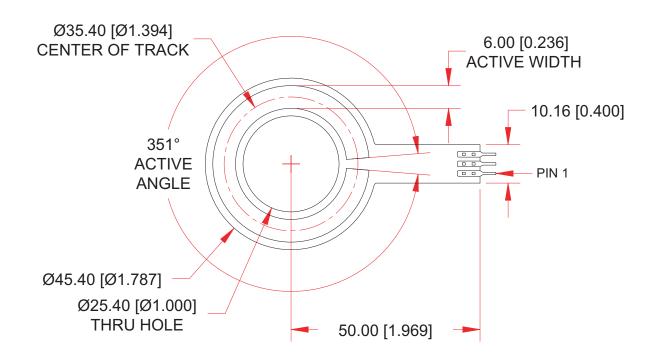
The ThinPot is a three-wire system with two resistive output channels and an electrical collector channel.

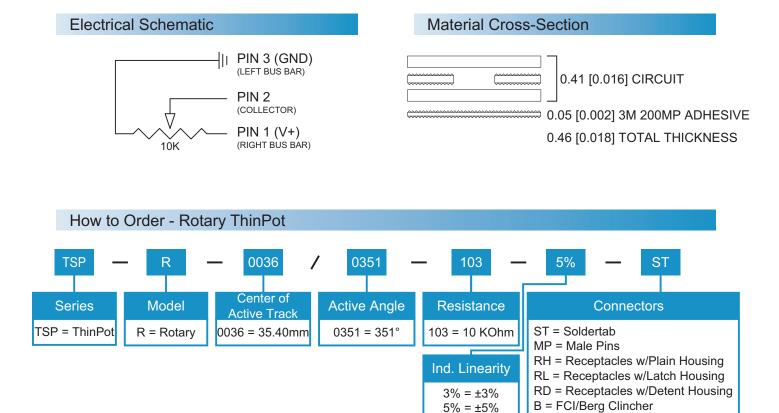


By pressing a wiper down onto the top circuit the SoftPot produces the desired electrical output. The "wiper" is a non-conductive mechanism that depresses the top circuit actuating the potentiometer from the outside of the element. The top and bottom circuits are separated by 0.15mm (0.006") of spacer adhesive build-up and contact between the circuit occurs by pressure (usually 0.7-1.8 Newtons) from the wiper on the top circuit, pushing down until the top circuit connects with the bottom circuit to create a potentiometric output.



The construction of the wiper design can adapt to any application because most materials can serve as the wiper: plastics, metals, sliders, rollers, wheels, etc. Also, the ThinPot can also be manually (hand) actuated.





Mouser Electronics

Authorized Distributor

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Spectra Symbol:

<u>TSP-L-0100-103-3%-ST</u> <u>TSP-L-0170-103-3%-ST</u> <u>TSP-L-0200-103-3%-ST</u> <u>TSP-L-0400-203-3%-ST</u> <u>TSP-L-0750-</u> 203-3%-ST TSP-R-0046-351-103-5%-ST TSP-L-0100-103-1%-RL