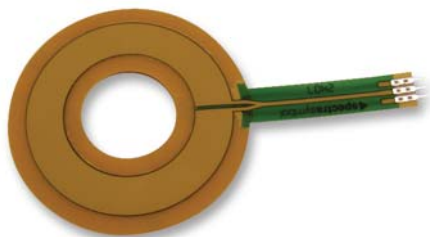


Position Sensor

Rotary



Specifications

Electrical Specifications	SoftPot
Resistance, standard	10k Ω (length >300mm 20k Ω)
Resistance range, customized	1k Ω to 100k Ω
Resistance tolerance	\pm 20%
Effective electrical travel	8 to 200mm
Linearity, independent	\pm 3% for linearity, \pm 5% for rotary
Power rating (depending on size) (varies with length and temperature)	1 Watt maximum at 25 $^{\circ}$ C
Resolution	Theoretical-Infinite; Resolution dependant on contact wiper thickness and construction
Dielectric value	No affect at 500V ac, 1 minute
Mechanical Specifications	
Live cycle (depending on viper)	>1 million
Height	typical \leq 0.51mm/0.020 inch
Actuation force (Actuation force increase approximately 30% for HP, EP) (No affect for SP)	-40 $^{\circ}$ C: 0.8 to 1.8N -25 $^{\circ}$ C: 0.8 to 1.8N -23 $^{\circ}$ C: 0.6 to 1.5N -75 $^{\circ}$ C: 0.5 to 1.4N
Environmental Specifications	
Operating temperature (with contact actuator)	-40 $^{\circ}$ C to +50 $^{\circ}$ C
Humidity	No affect at 95% RH, 4 hours <50 $^{\circ}$ C
Altitude	10,000 metres
IP Rating (Pot itself)	66
Shock	No closures >10msec at 100g half-sine on four sides
Vibration	No closure >10msec at 1hour random sine test

Position Sensor Rotary



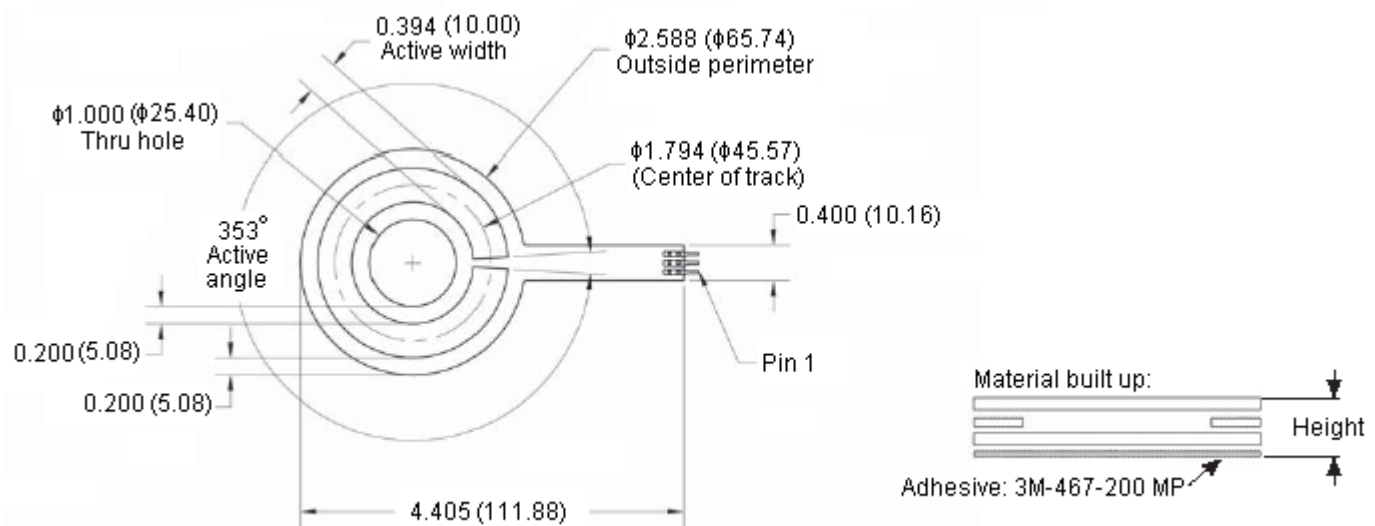
Connection

Connections	Solder Tabs (upon on request housing and other connectors)
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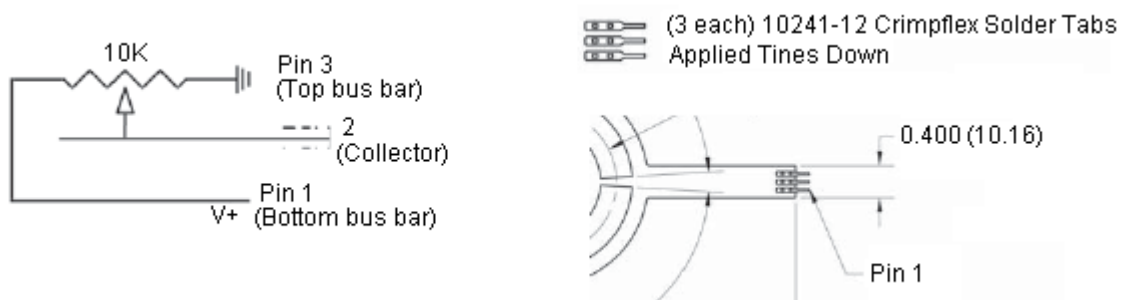
Individual options

Customized	Let us know your application, and we will help you design the optimum part
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Drawing (SoftPot)



Dimensions: Millimetres (Inches)



Part Number Table

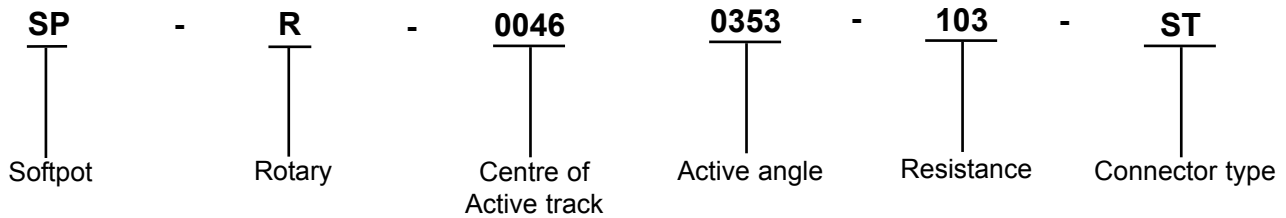
Description	Part Number
Sensor, Linear, Membrane, Rotary	SP-R-0046/353-103-ST

Position Sensor

Rotary



Part Number Explanation:



Centre of active track : 0046 = 45.57mm.
Active angle : 0353 = 353°.
Resistance : 103 = 10KΩ.
Connector type : ST = Solder tabs.

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