Position Sensor

Rectilinear





Specifications

Electrical Specifications		SoftPot	
Resistance, standard		10k Ω (length >300mm 20k Ω)	
Resistance range, customized		1kΩ to 100kΩ	
Resistance tolerance		± 20%	
Effective electrical travel		8 to 2400mm	
Linearity, independent		± 3% for rectilinear, ± 5% for rotary	
Power rating (depending on size) (varies with length and temperature)		1 Watt maximum at 25°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 wiper)		>1 million	
Height		Typical ≤0.51mm/0.020 inches	
Actuation force (Actuation force increase app. 30% for HP, EP) (No affect for SP)	-40°C -25°C +23°C +75°C	0.8 to 1.8N 0.8 to 1.8N 0.6 to 1.5N 0.5 to 1.4N	
Environmental Specifications			
Operating temperature (with contact actuator)		-40°C to +50°C	
Humidity		No affect at 95% RH, 4 hours <50°C	
Altitude		10,000 meters	
IP rating (Pot itself)		66	
Shock		No closures >10m seconds at 100g half-sine on four sides	
Vibration		No closure >10msec at 1 hour random sine test	

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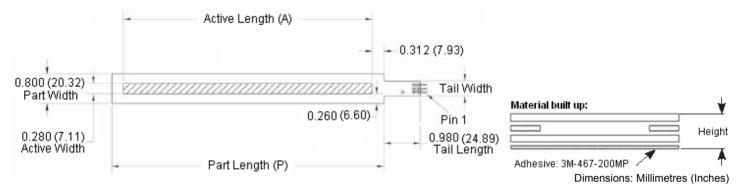


Connection

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

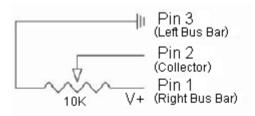
Drawing (SoftPot)

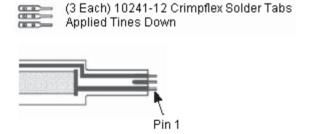


50.00/1.969 100.00/3.937 200.00/7.874 500.00/19.685 Active length mm/Inches mm/Inches mm/Inches mm/Inches 65.86/2.593 115.86/4.562 215.86/8.499 515.86/20.310 Part length mm/Inches mm/Inches mm/Inches mm/Inches ≤0.51mm/0.020 inches (for SP and HP) ≤0.70mm/0.030 (for EP) Height Resistance, standard $10k\Omega$ $10k\Omega$ $10k\Omega$ $20k\Omega$ Drawing# SoftPot 7182 7183 7184 7186 Adhesive 3M-467-200 MP

Dimensions: Millimetres (Inches)

Connection





Part Number Table

Description	Part Number
Sensor, Linear, Membrane, 50mm	SP-L-0050-ST
Sensor, Linear, Membrane, 100mm	SP-L-0100-ST
Sensor, Linear, Membrane, 200mm	SP-L-0200-ST
Sensor, Linear, Membrane, 500mm	SP-L-0500-ST

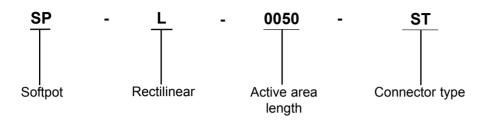
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multicomp

Part Number Explanation:



Active area length

: 0050 = 50, 0100 = 100, 0200 = 200 and 0500 = 500mm.

Connector type : ST = Solder tabs.

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