

Technical Data File TDS # POT-W10L333 Thin film position sensor

Product Description

POT-W10L333 is a resistive strip-shaped thin-film position sensor.

The sensor PIN3 is grounded, PIN1 is connected to the positive V + of the power supply, and PIN2 is the output voltage of the sensor. When there is no external pressure acting on the induction area, PIN2 is in an open circuit state and the output voltage V1 is 0; When there is pressure (20g-50g), the sensor is triggered, and V1 outputs a voltage signal. When the pressure action position moves from the right end to the left end of the sensor, V1 becomes larger accordingly, and the change range changes linearly from 0V + to V +. The voltage of V1 The magnitude is determined by the pressure action position; After the pressure is released, the sensor returns to the OFF state with the V1 voltage at 0.

The position sensor is composed of polyester film with excellent comprehensive mechanical properties and environmentally friendly materials, highly conductive materials, graphene pressuresensitive materials, and adhesive materials. Double-sided adhesive tape on the back for easy installation operations. Adopt metal terminal interface, anti-oxidation, can be soldered directly.

- Excellent position sensing
- Fast response speed
- Long service life
- The circuit principle is simple and the application is convenient
- Customizable

Typical Applications

- Position sensing
- Potentiometer

- Gear switch
- Other position sensing scenarios

Main technical data

Thickness	0.4 mm
Style	Elongated strip shape
Trigger force	20g-50g
Recommended	20~ 200~
pressure	$20g \sim 200g$
Recommended	Curved shrapnel/D3
indenter	Plastic/rubber ball head
On contact	I (1 10 O
resistance	Less than 10Ω
Pressure mode of	Shrapnel/Spring/Weight
action	Block
Resistance when	
not triggered	Infinity (VI-V0, VI-V +)
Activation time	Less than 0.01 S
Use Temperature	-20°C~+65°C
	More than 1 million times
Durability	(Normal Flexible Pressing)
Initial resistance	30K. customizable
	<i>c,</i>
Response time	< 1ms
Is it waterproof	
15 II Waterproof	No
Whether it is	
dustproof	Yes
austproor	
Electromagnetic	Without
interference EMI	
Electrostatic	Without
discharge EDS	
RoHS compliant	
	RoHS

Basic Description

1. The structural dimension drawing is as follows



Note:

The above information is believed to be correct and prepared for professional and capable end users who correctly evaluate and use these data.

Shenzhen Legact Technology Co., Ltd. does not guarantee the accuracy of these data and is not responsible for damage occurring during use.