

## MicroNav 360 Data Sheet

MicroNav 360

#### Features and Benefits

- Continuous 360° direction control through the touch of a finger or thumb
- No moving parts
- Packaged in tape and reel for pick and place manufacturing
- · Lead-free solder re-flow compatible
- Allows for ultimate flexibility in actuator design (shape and material)
- Compatible with our existing keypad
  membrane

#### Description

MicroNav 360 from Interlink Electronics is the innovative solution for keyboards, tablet PCs and remote controls that uses the most advanced micro-pointing technology for consumer electronic devices. MicroNav 360 offers smooth and true 360° pointing, pressure-controlled acceleration and a complete set of actuator reference designs.

MicroNav 360 is an intuitive, and easily integrated, 360° mouse pointing sensor based on Interlink Electronics' patented Force Sensing Resistor (FSR®) technology. FSR's are a polymer thick film (PTF) device which exhibit a decrease in resistance with an increase in the force applied to the active surface. Complete with full 360° pointing capabilities, Interlink Electronics has optimized its patented Force Sensing Resistor (FSR®) technology for web surfing, gaming, and micro-pointing in the palm of your hand. Call us for more information 805-484-8855.





P/N: PDS-10012-B

Human-Machine Interface Solutions for a Connected World



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MicroNav 360

#### **Device Characteristics**

PARAMETER	VALUE
Dimensions:	9.9mm x 9.9mm x 1.4mm (.390" x .390" x.055")
Force Sensitivity Range:	1N to 20N 100 to 2,000gf
Break Force (Turn-on Force):	<1N (dependent on mechanics and FSR® build) 100 gf
Stand-off Resistance:	>10M Ω
Switch Travel:	<0.05mm (0.002")
Lifetime:	>2 million actuations
Temperature Range:	Storage: -35°C to +85°C
	Operation: -20ºC to +55ºC
Sensitivity to Noise/Vibration:	None
EMI:	Susceptibility is similar to a passive resistor
ESD:	Not affected
Lead Attachment:	Solder / solder reflow



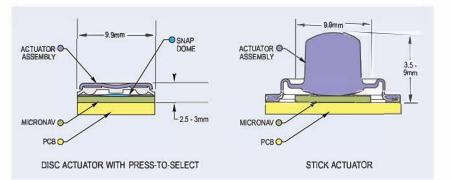
MicroNav 360



#### Orderable Part Numbers

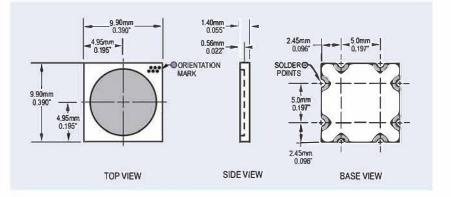
- MicroNav 360 Sensor, PN 30-98799
- MicroNav 360 Module VP1000, PN 54-24566
- MicroNav 360 USB Microcontroller, PIC18F14K50, PN 54-00005
- MicroNav 360 USB Microcontroller, PIC18F14K50 High Temperature, PN 24-00178

#### Actuator



The actuator is vital to the correct operation of the MicroNav 360 sensor. For a CAD model of a recmmonded actuator visit our website at www.interlinkelectronics.com/Support

#### Sensor Drawing



#### Contact Us

#### **United States Corporate Office**

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