



## Specifications

Power source	3.3 – 17 VDC
Measuring range	±90° (two-dimensional)
Resolution	0.1°   1 mg
Accuracy	0.2° (Typical), 0.4° (Maximum error in full range)
Zero offset error <sup>1</sup>	< ±0.1° (@20°C) <sup>2</sup> , Maximum offset drift: ±0.011° /°C
Repeatability	< 0.1°
Accelerometer range	±2 g/±4 g selectable
Sensor Bandwidth	200 Hz
Baud rate	2.4kbps – 460.8kbps selectable, default: 115.2kbps
Data format	ASCII, port settings: 1 start bit, 8 data bits, 1 stop bit & no parity
Output data rate	1, 2, 5, 10, 20, 25, 40, 50 and 100 Hz selectable
LED indicators	Data transmission rate Flashing at current data rate
Power consumption (@ 5 V)	< 8 mA @ data rate <10Hz 15mA @ maximum data rate
GUI software	WinCTi-Tilt®
Serial interface	3.3V TTL UART
Temperature sensor resolution	1°C
Operating Temperature	-40°C to +85°C (-40°F to +185°F)

**Warranty:** This product has 18 months limited warranty. For more information, please visit:

[www.CTiSensors.com/warranty](http://www.CTiSensors.com/warranty)

**This product is entirely designed and manufactured in the U.S.A.**

<sup>1</sup> Zero g offset can be easily corrected and saved by user.

<sup>2</sup> Units can be calibrated between -40°C and +85°C on request.

## Features

- Measuring range two-dimensional: ±90°
- High accuracy: err. < 0.2°
- High resolution: 0.1° | 1 mg
- Three-axis accelerometer
- Low power consumption: <8 mA (@ 5 V)
- Full duplex UART communication, 3.3 V TTL
- Small size: 1" x 1" (25.4 x 25.4 mm)
- Low cost (\$25 each for 1000 pcs)

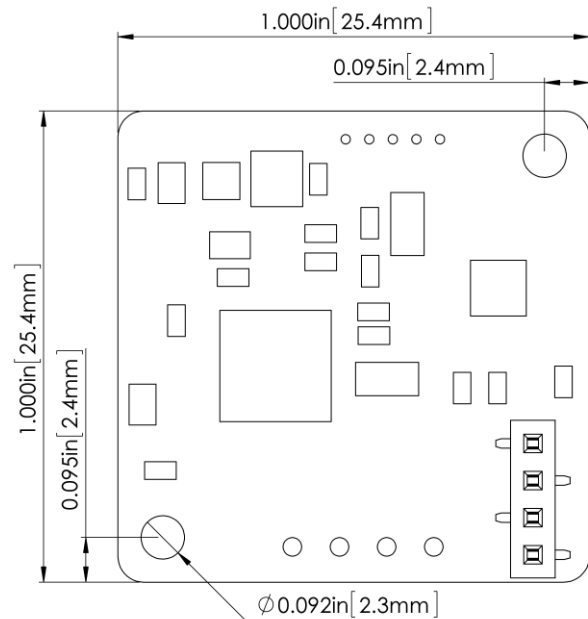
## Applications

- Platform control, alignment, and stabilization
- Solar panel tracking and control systems
- Tilt sensing and leveling
- Telescopic and scissor platform monitoring
- Motion/position measurement
- Navigation and GPS compensation
- Robotic position sensing
- Agricultural and industrial vehicle tilt monitoring

## Accessories

GUI Software                      WinCTi-Tilt®

## Dimensional Drawing



### CTI SENSOR, INC.

30301 Emerald Valley Parkway, Unit B  
Solon, OH 44139  
Phone: (440) 264 - 2370  
Email: [sales@CTiSensors.com](mailto:sales@CTiSensors.com)

All contents of this document are subject to change without any notice.