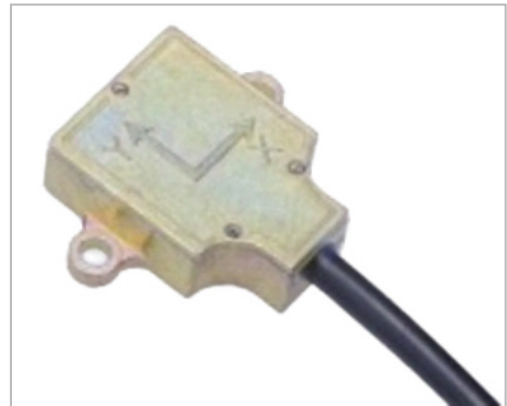




Description

This is a low cost single axis inclinometer sensor with a 360° measuring range, a resolution of 0.1° and an accuracy of $\pm 0.5^\circ$. There are two versions of this product, one with RS232 and the other with an RS485 interface. It can be programmed (via the digital interface) to give ASCII or Hex output. It can also select absolute or relative measurement mode, and re-calibrate the absolute zero point which is stored after power down. The housing and cable assembly are sealed to IP65. The standard cable is 2m long, although custom cable lengths can be supplied on request



Features

- Measuring range : 360°
- Sealed to IP65
- Solid state MEMS sensor
- Braided screen cable (2m standard length, others on request)
- RS232 full duplex or RS485 half duplex communication
- Low cost (<\$30 for 1kpcs)
- Zero offset position can be easily programmed and stored (even after power off)
- Small size, 41 x 30 x 13.5mm

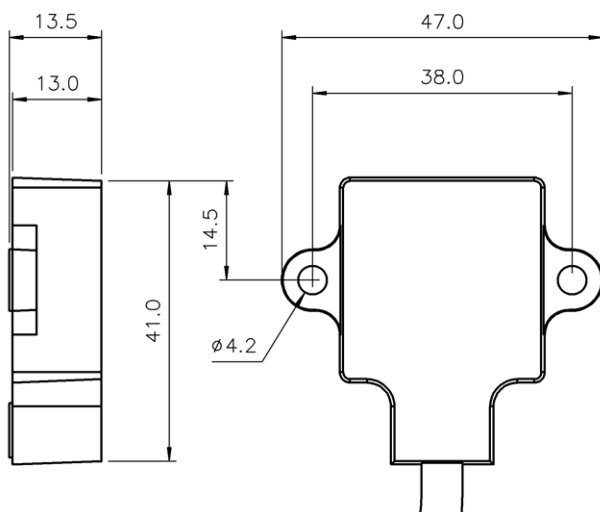
Applications

- Security systems
- Platform levelling and monitoring
- GPS compensation
- Agricultural and industrial vehicle tilt monitoring
- Telescopic and scissor lift platform monitoring
- Can be readily customised to suit most applications

Specifications

Parameter	Value	Unit
Supply Voltage ⁽¹⁾	5 \pm 0.2	V
Operating Current	<20	mA
Operating Temperature	-40 to 85	°C
Size: Width	46.7 (Inc. feet)	mm
Length	41	
Height	13.5	
Measuring range	360	°
Resolution	0.1	°
Accuracy ⁽²⁾	± 0.5	°
Zero temperature drift	0.03	° / °C
RS232 / RS485 bit rate	4800, 9600 or 19200 (set via RS232, 9600 default)	bps
RS232 / RS485 data format	1 start bit, 8 data bits, 1 stop bit, no parity	
Notes:		
1. Supply voltage of 7-15V on request		
2. Measurement accuracy at 25°C		
Part Numbering:		
LCH-360-232	RS232 Output Version	
LCH-360-485	RS485 Output Version	

Housing Size and Mounting Orientation



Sensor mounting orientation for 0° output

