

Product Description

ER-C-02 series of inclination Angle sensor is a new low cost, full attitude inclination Angle measurement product. It adopts the latest anti-interference platform design and integrates the new micro-mechanical sensor unit, with excellent wide temperature performance and anti-vibration performance, stable and reliable long-term operation and effective working life of up to 10 years.

This product adopts the principle of non-contact measuring Angle of the object, through internal capacitance decay component produced by mechanical unit of measurement of earth's gravity to calculate the real-time Angle, simple and convenient installation, just on the movement of objects being measured, don't need a fixed axis and the axis of rotation. A variety of installations can meet customer demand for measurement. Engineering machinery vehicles, agricultural machinery, industrial equipment, such as the ideal accessory.



Product Feature

- Resolution Ratio 0.1°
- Output Mode RS232 /RS48S/TTL
- Six Installation Methods
- Wide Voltage Input 9~36V
- Zero can be set on site
- Wide Working Temperature -40°~+85°
- IP66 Protection Level
- High-Seismic Performance>3500g

Application

- Agricultural Machinery
- Hoisting Machinery
- Overhead Working Truck
- High Altitude Hanging Basket
- Wood Working Machinery

- Construction Cranes
- The Medical Bed
- Electric Vehicle Control

Specification Parameters

Parameter	Condition	ER-C-02-30	ER-C-02-60	ER-C-02-90	ER-C-02-360	Unit
Range		≤±30°	≤±60°	≤±90°	≤±360°	
Resolution Ratio		0.1	0.1	0.1	0.1	°
Measurement Accuracy	25°C	±0.2	±0.3	±0.5	±0.6	°
Response Time		0.05	0.05	0.05	0.05	S
Temperature Drift Characteristic	-5~55°C	±0.5	±0.5	±0.5	±0.5	°
	-25~70°C	±0.7	±0.7	±0.7	±0.7	°
	-40~85°C	±0.8	±0.8	±0.8	±0.8	°
Output Load	>500Ω					
Working Time	50000hours/time(trouble-free)					
Insulation Resistance	>100Ω					
An-ti Vibration	10grms、10~1000HZ					
Shock Resistance	100g@11ms、Triaxial harmony (half normal)					
Weight	60g					
Production Certification	CE;FCC;CCC;					
Production standard	GB/T 191 SJ 20873-2003 General specification for inclinometer and level					
Quality system	IS09001:2008Standard (certification no. : 128101)					