

ER-126T-CANOPEN Type Dual-Axis Inclinometer is a CANOPEN output dual-axis inclinometer for industrial field control , using industry standard isolated CAN transceiver, built-in high-precision A / D differential converter, by 5 filtering algorithm, which can measure the angle of sensor output relative to the horizontal tilt and pitch tilt.

Because of built in high precision digital temperature sensor that can correct the sensor temperature drift in accordance with the changes of the built-in temperature sensor, to ensure high repeatability of the product in the low-temperature and high-temperature environment. The output frequency response standards up to 100Hz, for higher response frequency Division we can customize according to the user requests. The products are truly industrial-grade products, reliable performance, scalability, and a variety of output options. Suitable for a variety of harsh industrial control environment.



**Application:**

- Satellite positioning Search
- Rail-mobile monitoring
- engineering mechanical measurement of dip angle
- oil-well drilling equipment
- Radar detection of vehicle platform
- Underground drill posture navigation
- Gun Barrel angle measurement in early shooting
- Based on the angle direction measurement
- Satellite communications vehicle posture detection
- Shield pipe jacking application
- Ship's navigation posture measurement
- Geological equipment inclined monitoring

**Features:**

- Dual-Axis Inclinometer
- Measuring Range : $\pm 1 \sim \pm 90^\circ$  optional

- Accuracy : refer to the technical data
- Wide voltage input: 9~36V
- Wide temperature working: -40~+85℃
- Resolution: 0.01°
- IP67 protection class
- Highly anti-vibration performance >2000g
- Direct lead cable interface
- Small size : 66×44×24mm (customized)
- Output mode: CAN OPEN

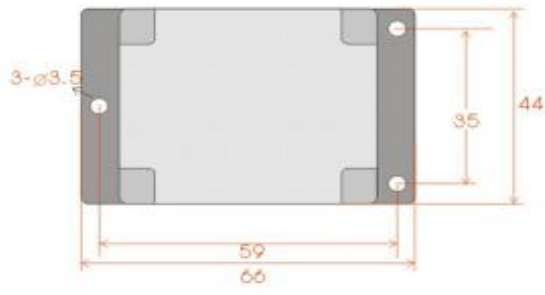
### Technical Data

Parameters	Conditions	ER-126T-10	ER-126T-30	ER-126T-60	ER-126T-90	Unit
Measuring range		±10	±30	±60	±90	°
Measuring axis		X,Y	X,Y	X,Y	X,Y	
Resolution		0.01	0.02	0.03	0.04	°
Absolute accuracy		0.02	0.05	0.08	0.1	°
Long term stability		0.05	0.05	0.05	0.05	
Zero temperature coefficient	-40~85°	±0.006	±0.006	±0.006	±0.006	°/℃
Sensitivity temperature coefficient	-40~85°	≤100	≤100	≤100	≤100	ppm/℃
Power on time		0.5	0.5	0.5	0.5	S
Response time		0.05	0.05	0.05	0.05	S
Output rate	5Hz、15Hz、35Hz、50Hz can be setting					
Output signal	CAN OPEN					
EMC	According to EN61000 and GBT17626					

MTBF	≥50000hours/times				
Insulation	≥100M				
Resistance					
Shockproof	100g@11ms、3Times/Axis(half sinusoid))				
Anti-vibration	10grms、10~1000Hz				
Protection	IP67				
glass					
Cables	Standard 1M length、wearproof、grease proofing、wide temperature、				
	Shielded cables 4*0.4mm2				
Weight	80g(without cable)				

<b>Electronic Characteristics</b>						
Parameters	Conditions	Min	Standard	Max	Unit	
Power supply	Standard	9	12、24	36	V	
	customized		5		V	
Working current	non-loaded		30		mA	
Working temperature		-40		+85	℃	
Store temperature		-55		+125	℃	

**Dimension**



UNIT:mm