T7000-B: HIGH PRECISION ANALOG CURRENT OUTPUT SINGLE-AXIS TILT SENSOR

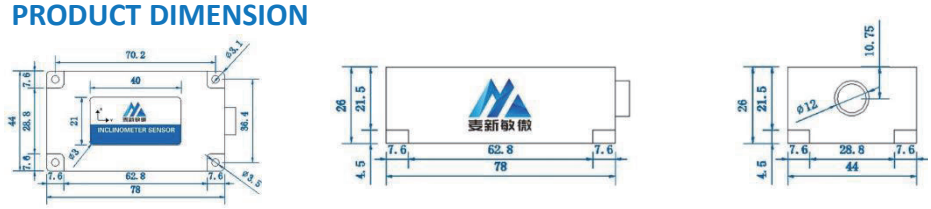
PRODUCT DESCRIPTION

The T7000-B series is a high-performance current output single axis tilt sensor. The measurement range is 0- ± 180 ° (0-360 °), with a maximum accuracy of 0.008 °. It can output standard 4-20mA, 0-20mA, and 0-24mA analog currents, with RS232 and RS485 options available simultaneously. Good anti-interference characteristics, suitable for long-distance signal transmission. The product is easy to install and use, with multiple output options, resistant to external electromagnetic interference, and strong ability to withstand vibration and impact, suitable for measuring angles in industrial control environments such as surveying and mapping.

PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T7000-B	Unit
Measuring range		±180	°
Measuring axis	Y axis option	X axis	
Zero temperature drift	-40 ~ 85°	±0.001	°/℃
Sensitivity temperature coefficient	-40 ~ 85°	≤50	ppm/℃
Zero bias	0° output	4~20mA output-12mA 0~20mA output-10mA 0~24mA output-12mA	mA
Frequency response	DC response	100	Hz
Resolution	Bandwidth 5Hz	0.001	°
Accuracy	-40 ~ 85℃	0.008	°
Power-on start time		0.2	s
Response time		0.01	s
Output signal	4-20mA, 0-20mA, 0-24mA (optional)		
Average working hours	≥55000 hours/time		
Impact resistance	10000g, 0.5ms, 3 times/axis		
Anti-vibration	10grms、10 ~ 1000Hz		
Insulation resistance	≥100MΩ		
Waterproof level	IP67		
Cable	Standard 1.5 meter-length, wear-resistant, oil-proof, wide temperature, shielded cable 6*0.3mm2		
Weight	150g (excluding packaging box)		

PRODUCT DIMENSION



SIZE: L78*W44*H28MM

PRODUCT APPLICATION

- Railway gauge ruler and gauge leveling
- Bridge, dam monitoring
- Gimbal leveling
- Wind turbine shimmy attitude
- Robot tilt monitoring
- Satellite solar antenna positioning
- Ship navigation attitude measurement
- Medical equipment
- Angle control of various construction machinery
- Precision machine tool horizontal control