

## T7000-F: HIGH PRECISION ANALOG VOLTAGE OUTPUT DUAL-AXIS TILT SENSOR

### ■ PRODUCT DESCRIPTION

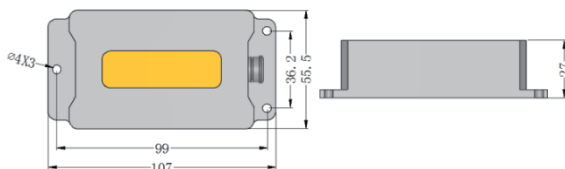


T7000-F is a standard industrial high-precision voltage output dual-axis inclination sensor with standard voltage as 0~5V and 0.5~4.5V (0~10V optional). At the same time, RS232 output can be used for long-distance transmission of 2000 meters. The product makes accurate compensation and correction for temperature error and linearity error, high accuracy, good anti-vibration, anti-electromagnetic interference circuit, especially suitable for the application of underground non-excavation machinery and other harsh industrial environments.

### ■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T7000-F-5	T7000-F-10	T7000-F-15	T7000-F-30	Unit
Measuring range		±5	±10	±15	±30	°
Measuring axis	axis	X, Y	X, Y	X, Y	X, Y	
Zero temperature drift	-40 ~ 85°	±0.0007	±0.0007	±0.0007	±0.0007	°/°C
Sensitivity temperature coefficient	-40 ~ 85°	≤50	≤50	≤50	≤50	ppm/°C
Zero bias	0° output	0-5V output-2.5V, 0-10V output-5V				V
Frequency response	DC response	100	100	100	100	Hz
Resolution	Bandwidth 5Hz	0.0007	0.0007	0.0007	0.0007	°
Accuracy	-40 ~ 85°C	0.005	0.006	0.0065	0.007	°
Long term stability	-40 ~ 85°C	<0.006	<0.007	<0.007	<0.008	°
Power-on start time		0.2				s
Response time		0.01				s
Output signal		0-5V, 0-10V				
Average working hours		≥45000 hours/time				
Impact resistance		20000g, 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*0.3mm <sup>2</sup>				
Weight		250g (excluding packaging box)				

### ■ PRODUCT DIMENSION



SIZE: L107\*W55.5\*H27MM

### ■ 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