

## T700-F: MEDIUM PRECISION ANALOG CURRENT OUTPUT DUAL-AXIS TILT SENSOR



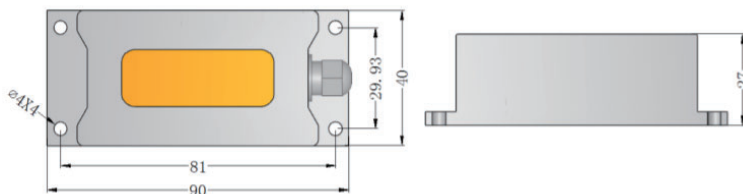
### ■ PRODUCT DESCRIPTION

T700-F is a standard industrial dual axis current output tilt sensor. The standard current is 4-20mA, 0-20mA, and 0-24mA, which can be selected for long-distance transmission of 2000 meters. The product adopts the latest MEMS sensing production process, which accurately compensates and corrects temperature and linearity errors. It has high accuracy, small size, high packaging technology, good vibration resistance, built-in anti RF, and adopts anti electromagnetic interference circuits, especially suitable for underground non excavation machinery and other harsh industrial environments.

### ■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T700-F-10	T700-F-30	T700-F-60	T700-F-90	Unit
Measuring range		±10	±30	±60	±90	°
Measuring axis	axis	X, Y	X, Y	X, Y	X, Y	
Zero temperature drift	-40 ~ 85°	±0.002	±0.002	±0.002	±0.002	°/°C
Sensitivity temperature coefficient	-40 ~ 85°	≤50	≤50	≤50	≤50	ppm/°C
Zero bias	0° output	4~20mA output-12mA 0~20mA output-10mA 0~24mA output-12mA				mA
Frequency response	DC response	100	100	100	100	Hz
Resolution	Bandwidth 5Hz	0.001	0.002	0.002	0.002	°
Accuracy	-40 ~ 85°C	0.01	0.02	0.03	0.05	°
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		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		150g (excluding packaging box)				

### ■ PRODUCT DIMENSION



SIZE: L90\*W40\*H27MM

### ■ PRODUCT APPLICATION

- Railway gauge ruler and gauge leveling
- Wind turbine shimmy attitude
- Bridge, dam monitoring
- Robot tilt monitoring
- Signal towers, high-voltage power poles
- Satellite solar antenna positioning
- Medical equipment
- Angle control of various construction machinery
- Precision machine tool horizontal control