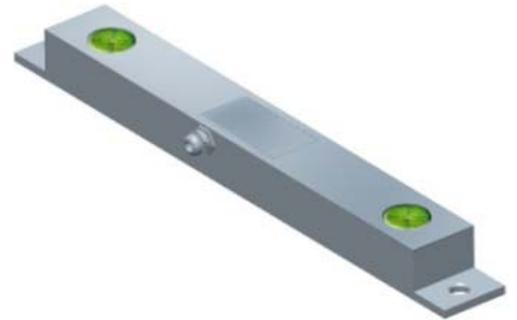


TSC116-K - High Precision Beam Inclinometer Digital



General Description

TsC116K is a serial output single-axis inclinometer launched by DPF company to the field of tunnel, bridge, metro track, built-in high-precision A / D differential converter, through 5 filtering algorithm, which can measure the angle of sensor output relative to the horizontal tilt and pitch tilt. The output interface RS485, RS232, RS422.

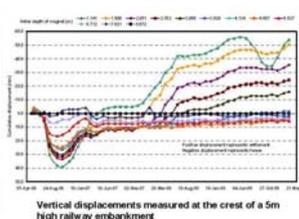
Because of Built in ADI company's high precision digital temperature sensor that can correct the sensor temperature drift in accordance with the changes of the built-in temperature sensor, to ensure high repeatability of the product in the low-temperature and high-temperature environment. The output frequency response standards up to 18Hz, 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.

APPLICATIONS

- Monitoring the effects of tunneling and excavating on nearby buildings and other structures.**
- Monitoring the movement of tunnel walls and railway tracks.**
- Monitoring the stability of structures where slope instability is occurring.**
- Monitoring the deflection of bridges and beams under load.**

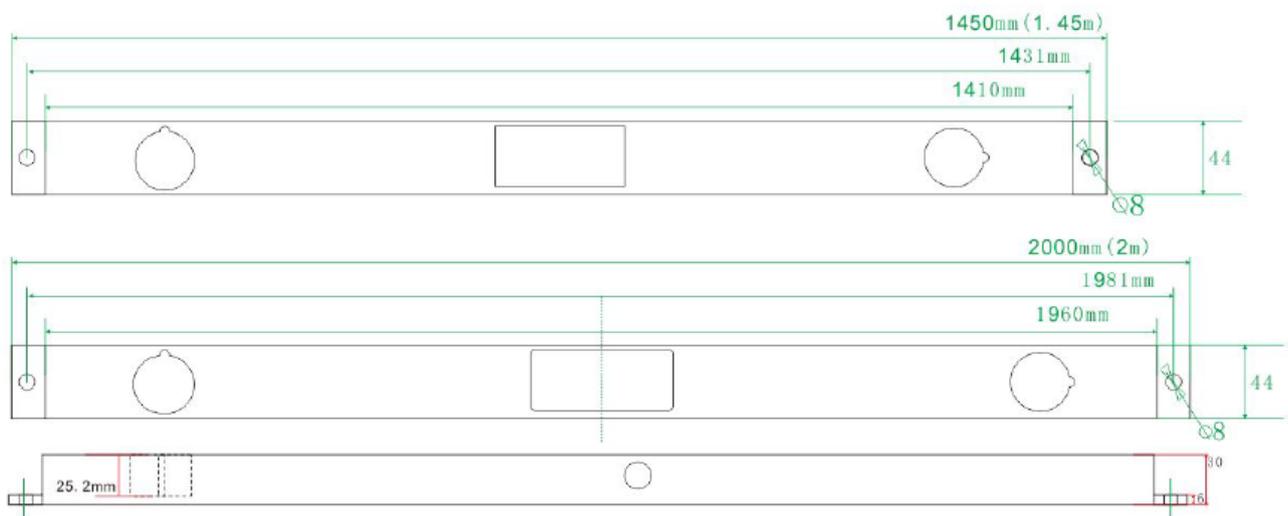
FEATURES

- Simple construction with no moving parts to damage.**
- Convenient to install on any structure and easy to use.**
- Beams can be linked together to provide detailed movement data over long distances.**
- Analog, digital and frequency outputs available.**



	TSC-1x6-10	TSC-1x6-30	TSC-1x6-60	TSC-1x6-90	UNIT
Measuring rang	±10	±30	±60	±90	°
Measuring axis	1-2	1-2	1-2	1-2	
Resolution	0,01	0,01	0,01	0,01	°
Absolute accuracy	0,02	0,05	0,08	0,1	°
Zero temp. coefficient -40~85°	±0.006	±0.006	±0.006	±0.006	°/C
Sensitivity Temp. coeff -40~85°	=100	=100	=100	=100	ppm/?
Response time	0.05	0.05	0.05	0.05	Seg.
Output	Output mode RS232/RS485 - CanBus 4...20 mA - 0..10 Vcc				
Power supply	9...36 Vdc				
Working temperature	-40...+85				°/C
Store temperature	-50...+100				°/C
Electromagnetic compatibility	According to EN61000 and GBT17626				
MTBF	=45000 hours/times				
Insulation Resistance	=100M				
Shockproof	100g@11ms、3Times/Axis(half sinusold))				
Anti-vibration	10grms、10~1000Hz				
Protection class	IP67				
Cables	Standard 1M length、wearproof、grease proofing、widetemperature、Shielded cables4*0.4mm2				
Weight	5.540g (without cable)				

Dimension



TSC-1x6	x	-XX	X
	1 : 1 AXIS	10 (10°)	A (4...20 MA)
	2: 2 AXIS	30 (30°)	B (0...5 VDC)
		60 (60°)	C (RS232)
		90 (90°)	M (MODBUS)
			CB (CANBUS)
		XX (OTHER RANGE)	

