

TS01 FBG Tilt Sensor

Description

TS01 FBG Tilt Sensor is an advanced fiber optic device using Fiber Bragg Grating (FBG) for accurate tilt measurement of structures.

Features

- Dual FBG
- Including temperature compensation
- Large measurement range
- Passive, anti-electromagnetic interference

Applications

- Communication/electricity tower tilt monitoring
- The tilt monitoring of high-rise buildings
- Bridge tilt monitoring



Specification

Item	Unit	Specification
Measurement Range	deg	-10 to +10
Sensitivity	pm/deg	~45
Resolution	deg	0.02
Linearity	%	99.9
Temperature Compensation	-	Yes
Central Wavelength	nm	1510 to 1590
Reflectivity	%	≥50
SMSR	dB	≥15
Dimension	mm×mm×mm	75×40×115
Operating Temperature Range	°C	-40 to +80
Fiber Connector Type	-	FC/APC (or customize)
Pigtail Length	m	1.0 (or customize)