TI 500 T - Tilt / Inclination sensor

Fiber Bragg Grating based single axis tilt / inclination sensor, specifically designed to measure long term angular variations of large structures.

The highly sensitive fiber optic tilt sensor has an angular measurement range of 10° and is temperature compensated to ensure high stability.

- Very high sensitivity
- Double ended
- Robust stainless-steel design for harsh environment
- Intrinsically temperature compensated
- Large angular range

Performance	Parameter
Sensitivity	550 pm/deg. ± 50 pm/deg.
Resolution	8.33 µdeg. / 0.15 µm/m
Accuracy	10 mdeg. / 175 µm/m
Measurement range[1]	10 deg.
Response time	< 3 sec
Weight	1.5 kilograms
Material	1.4404 (SS 316L)
Operational temperature range	-30 to +80 °C
Protection	IP 67
FWHM	< 0.5 nm
Reflectivity	> 50 %
Insertion loss	< 0.1 dB
FBGs	2
Connector options	FC/APC, LC/APC, open end[2]

1. Larger measurement range on request.
2. Other connector options available on request.

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Mounting instructions

It is recommended to fasten the sensor on a flat surface using an M5 bolt as indicated.

Maximum torque to apply is 5 Nm.