

# TI 200 T - Tilt / Inclination sensor



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

The highly sensitive fiber optic tilt sensor has an angular measurement range of 30° and is intrinsically temperature compensated to ensure high stability.



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

Parameter	Performance
Sensitivity	180 pm/deg. $\pm$ 20 pm/deg.
Accuracy	30 mdeg. / 525 $\mu$ m/m
Measurement range	30 deg.
Response time	< 10 sec
Weight	1.3 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 <sup>1</sup>

<sup>1</sup>. Other connector options available on request.

## 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.

Note special wall-, floor- and ceiling mounts are available on request.

