

[OESEN-DIS-100]

Fiber Bragg Grating Displacement Sensor

Applications:

- Bridges
- Big buildings
- Dams
- Aerospace industry

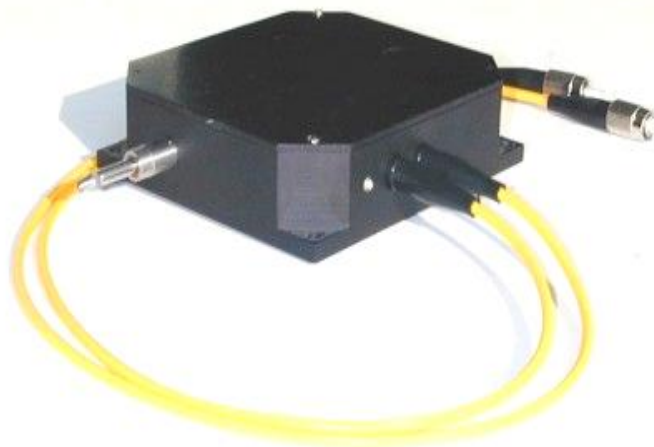


Fig 1. FBG Displacement Sensor

Product description:

A low cost fiber displacement sensor is now available at **O/E LAND INC.** Based on our patented technology on wide band tunable fiber Bragg gratings, our fiber displacement sensor with model number **OESEN-DIS-100** is used to measure the relative movement between two different positions in structures like bridges, big buildings, dam, etc. An optional built-in temperature sensor can be included for monitoring both displacement and temperature simultaneously.

Product specifications:

Parameter	OESEN-DIS-100
Center wavelength (nm)	1310, 1550
FWHM (nm)	0.2 ± 0.1
Reflectivity (%)	> 75
Displacement range (mm)	5-50
Resolution (%)	< 0.1
Precision (%)	< 1
Fibre cable	1m long, 3 mm†

* Some limitations apply.

** Tuning range can significantly vary depending on FBG specifications.

*** Recommended values. The ambient environment temperature can limit the performance, incl. the tuning range.