

FBG-Displacement Sensor

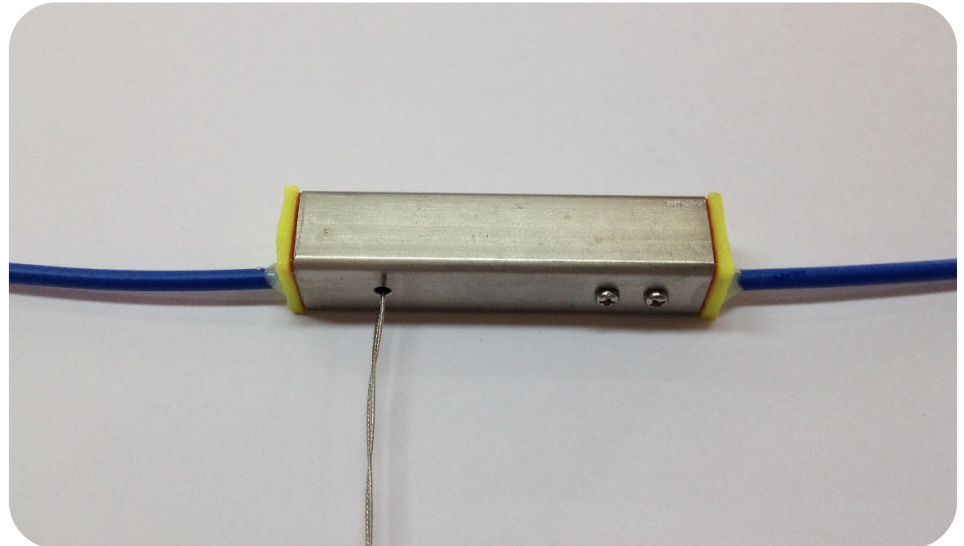
Applications

- Geogrid
- Geotextile
- Geomembranes
- Laboratory

Geosynthetic Pullout tests.

Features

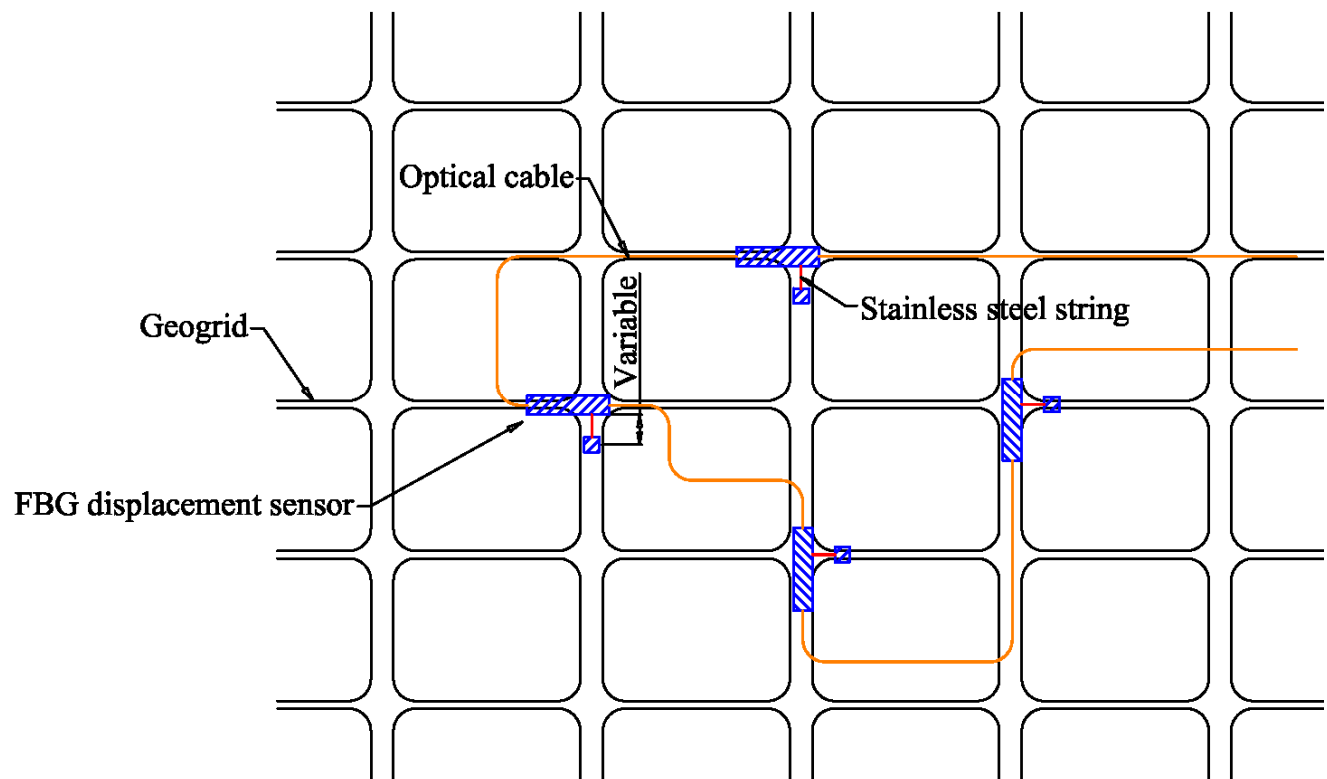
- Immune to lightning, electromagnetic interference and short circuits, and capable of without losing its quality.



Description

Specifically designed for strain measurements for flexible materials such as geosynthetic. The FBG sensor is enclosed in a stainless steel housing for rugged protection. A flexible, stainless steel string connects the FBG sensor to the target point where its relative displacement is to be monitored. A wide range of strains (well above 10%) can be accommodated by adjusting the range of the FBG sensor and its relative distance with the target point.

FBG-Displacement Sensor



FBG2500 attached to geogrid

FBG-Displacement Sensor

Specifications	FBG-Displacement Sensor
Physical Properties	
Operating Temp. range	0 to 80°C
Standard range	<25%
Resolution ¹	<0.005%
Accuracy	±0.05% Full scale range
Connectors	FC/APC, SC/APC, or customer specified
Dimensions	12.7mm×12.7mm×55mm
Weight	~30g
Optical Properties	
Peak Reflectivity (Rmax)	>70%
FWHM (-3dB point)	0.25nm(±0.05nm)

Notes:

1. Dependent on FBG interrogator.

Ordering Information	FBG2500-1XX-LLL-15YY
1XX: Cable 1, Length & Connector	LLL: Sensor Length
1: 1m Standard, Cable Length	050: 50 mm
FC: FC/APC Connector	100: 100 mm
SC: SC/APC Connector	150: 150 mm
LC: LC/APC Connector	
YY: FBG Wavelength	
Standard: 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84	