

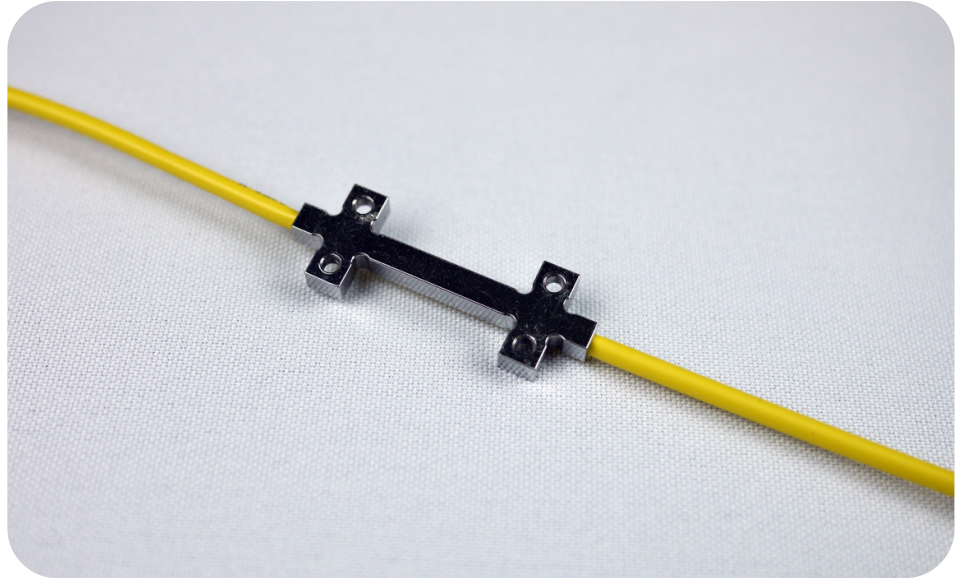
FBG-Weldable Strain Gauge

Applications

- Dams
- Foundations
- Bridges
- Piles
- Tunnel linings
- Buildings

Features

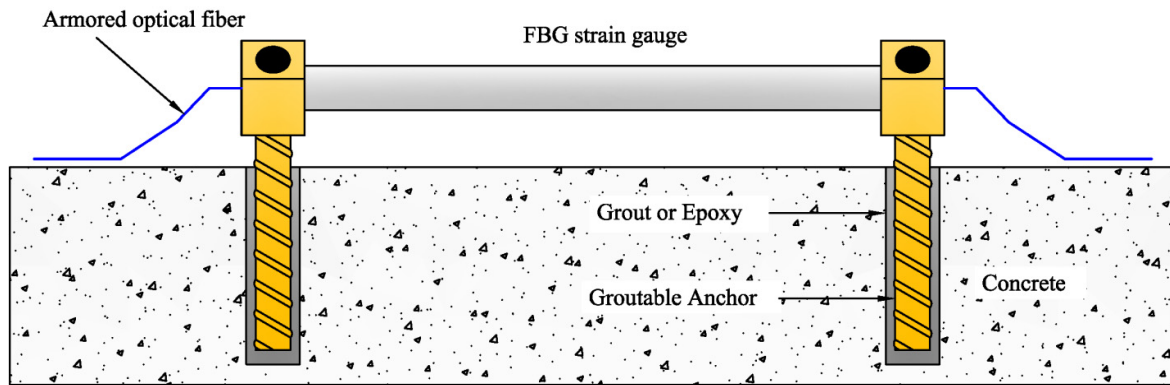
- Immune to EMI and short circuits
- Low noise long distance signal transmission
- Connecting multiple sensors to a common optical fiber



Description

The body is made of 316 stainless steel which can be bolted or welded on the surface of the subject to be monitored. The FBG inside the gauge sense the strain through its linear relationship with the FBG peak wavelength. The gauge size can be varied to fit the need in the field.

FBG-Weldable Strain Gauge



FBG2100 bolted to concrete.

FBG-Weldable Strain Gauge

Specifications	FBG-Weldable Strain Gauge
Physical Properties	
Operating Temp. range	0 to 80°C
Standard range	5000 $\mu\epsilon$
Resolution ¹	1 $\mu\epsilon$
Accuracy	$\pm 0.2\%$ Full scale range
Connectors	FC/APC, SC/APC, or customer specified
Length	50mm, 100mm, 150mm
Weight	~100g
Optical Properties	
Peak Reflectivity (Rmax)	>70%
FWHM (-3dB point)	0.25nm(± 0.05 nm)

Notes:

1. Dependent on FBG interrogator.

Ordering Information	FBG2100-1XX-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	