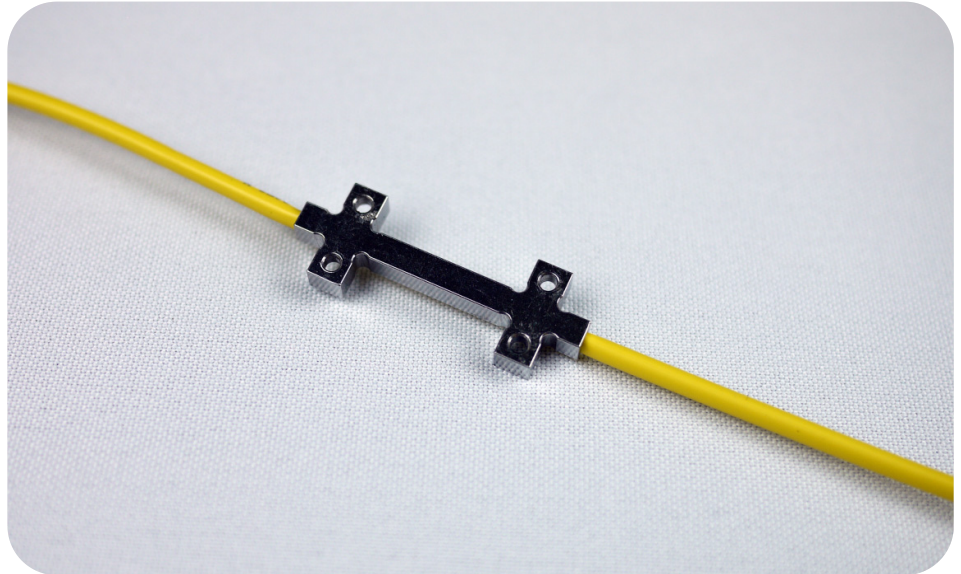


Applications

- Buildings
- Bridges
- Concrete
- Steel structure
- Nuclear or hazardous environments

Features

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



Description

An FBG is used to sense the strain of the 316 stainless steel body as a result of temperature fluctuation. Taking advantage of the linear relationship between FBG peak wavelength and strain, as well as the stable thermo properties of the stainless steel, the FBG-Temperature gage is exceptionally stable and durable. The size and temperature range can be varied to fit the need in the field.

FBG-Temperature Gauge

Specifications	FBG-Temperature Gauge
Physical Properties	
Temp. measurement range	0 to 100°C
Resolution ¹	<0.05% Full scale range
Accuracy	±0.5% Full scale range
Connectors	FC/APC, SC/APC, or customer specified
Length	60 mm
Weight	~100g
Optical Properties	
Peak Reflectivity (Rmax)	>70%
FWHM (-3dB point)	0.25nm(±0.05nm)
Notes:	
1. Dependent on FBG interrogator.	

Ordering Information

FBG1100-1XX-15YY

1XX: Cable 1, Length & Connector

1: 1m Standard, Cable Length

FC: FC/APC Connector

SC: SC/APC Connector

LC: LC/APC Connector

YY: FBG Wavelength

Standard: 12, 18, 24, 30, 36, 42, 48, 54, 60,
66, 72, 78, 84