

Fiber Bragg Grating Strain Sensor

FBG-SS

Applications

Structural monitoring for civil, aerospace, marine, and other structures

General sensing applications

Features

Multiplexible – FBG sensor allows for serial multiplexing

Wavelengths available: O, C, and L Bands, and 815 - 865 nm

Small size, easily embedded into composite structures

Custom sensor spacing available

FC connectors (typical), others available on request

Description

The FBG-SS is a fiber optic strain gage capable of providing strain measurements for most applications. Optical Fiber Bragg Grating (FBG) sensors respond to strain by a shift in their optical wavelength. Aither Engineering, Inc. (AEI) provides wavelength selection services to match the sensing needs of your particular application. Our engineers are also available to help design multiplexed arrays and determine solutions to the trickiest sensing problems. Installation and testing services are also available, please inquiry to info@aitherengineering.com for further information.

FBG-SS

Fiber Bragg Grating Strain Sensor

The standard FBG can be used for most strain and/or temperature applications. This does not possess any special packaging for harsh environments or work conditions.

This product can be easily combined with AEI's other sensing products to provide a complete sensing system for monitoring the structural response (thermal, strain, and acceleration) for almost any application.

Selected Specifications

Typical strain range	-5000 to 5000 $\mu\epsilon$
Typical temperature range	-20 to 100 °C
Maximum temperature range	-50 to 150 °C

Ordering information

Product number:

FBG-SS- α - β - α -AEI

α - Connector style
0 - no connector
1 - FC/PC
2 - FC/APC
3 - ST
4 - SC

β - Wavelength range
800 or 1550
You may request a specific Bragg wavelength, please ask for details

Example: FBG-SS-1-800-1-AEI

Custom designed sensors can be produced upon request. For more information please contact us at:

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Sensor



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