

Minimized FBG Strain Sensor

[MSS-1700]

High accuracy & Long term stability measurement

Minimized size strain package sensor
This FBG strain sensor can be reused by attaching on the surface with screw and epoxy in additional plate



This package mountable strain sensor measures directly strain and small displacements on the surface of bridge, building, in-structure in civil engineering, aerospace, energy and military application. It's very easy to attach and remove it installation. It provides accurate test result in harsh environmental conditions and several sensors can be connected in series.

MSS-1700

Features

- Minimized size strain package sensor
- Easy to install & remove
- Reused type
- High accuracy & Long term stability

*Available series-connection
& Customized design*

Specifications

Center wavelength range*	1530~1570nm
Center Wavelength tolerance	+/- 0.5nm
Reflectivity	>90%
FWHM	0.2~0.4nm
Strain Range**	5000 $\mu\epsilon$ (pre-strain 1000 $\mu\epsilon$)
Fiber type	SMF-28 Acrylate Recoating
Strain sensitivity	1.20pm/ $\mu\epsilon$
Temp sensitivity	11pm/ $^{\circ}$ C
Proof test	100Kpsi
Pigtailed length	1m (in each side)
Connector type	FC/APC (optional)
Operating temperature	-20~80 $^{\circ}$ C
Dimensions	145(W) x 30(D) x 20(H) mm
Weight	50g

* Customer selectable

** Without any special request for pre-stain we set out 1000 $\mu\epsilon$ in order to measure contractive result before installation of strain sensor.

Fiber Bragg Grating sensor

FBG sensors offer several significant advantages over conventional electrical sensors.

FIBERPRO can provide a wide range of sensors to measure all kinds of physical parameters like: temperature, strain, pressure, displacement, acceleration, inclination, water leakage, humidity, etc.

These sensors can be read out with *IS7000* and *IFIS100* for real-time monitoring

Available for customized FBG sensors by FIBERPRO for your application!