

FBG Strain Sensor MS-02

Surface mounted FBG strain sensor MS-02 is mainly used to monitor the stress and deformation of various structural surfaces. The sensor is packaged with high-performance stainless steel material, and is installed on the surface of the monitored object by gluing or spot welding without causing any damage to the surface of the measured object. Due to its small size and convenient installation, it is more suitable for small spaces and laboratories, and occasions where the object to be measured is not easily damaged.

Key Features

- High precision, reliability, and stability
- Minimal temperature drift
- All-optical measurement, intrinsically safe
- Long-term zero point stability
- Easy to install



Applications

- Surface strain measurement of steel structure
- Bridge structural health monitoring
- Surface strain measurement of polymer materials
- Pre-stressed load measurement
- Strain measurement of pipes and storage tanks

Specifications

Parameter	Unit	Value
Center Wavelength	nm	1460 ~ 1610
Range	$\mu\epsilon$	± 1500
Resolution	$\mu\epsilon$	0.01% F.S.
Accuracy	$\mu\epsilon$	0.1% F.S.
Material	--	Stainless steel
Dimension	mm	82(L) x 13(W) x 7(H)
Installation	--	Paste or welding
Pigtail Length	m	$\Phi 3$ mm armored cable, 1m at both ends, or customize
Optical Connector	--	FC/APC, or customize
Operating Temperature	$^{\circ}\text{C}$	-20 ~ +80