

## FBG Strain Sensor MST-03

FBG Strain Sensor MST-03 is a special FBG strain sensor designed for strain feedback monitoring of wind turbine pitch control and the abnormality monitoring of wind turbine blade structure, configured with built-in temperature compensation, anti-fatigue, the same type of sensor can be blindly inserted or replaced at will, easy to install.

### Key Features

- Anti long-term vibration: 2g
- Anti fatigue: no metal package
- Quick installation: blind insertion, easy reset

### Applications

- Strain feedback for wind turbine pitch control
- On-line monitoring of structural abnormalities of wind turbine blades and propellers
- Low frequency vibration monitoring of wind turbine blades or towers



### Specifications

Parameter	Unit	Value
Center Wavelength	nm	1460 ~ 1610
Range	$\mu\epsilon$	$\pm 5000$
Resolution	$\mu\epsilon$	0.1% F.S.
Accuracy	$\mu\epsilon$	1% F.S.
Vibration Frequency	Hz	0.1~200
Temperature Compensation	--	Built-in
Material	--	Silicone Rubber
Dimension	mm	125 x 29 x 5.7
Installation	--	Glue
Pigtail Length	m	$\Phi 2$ mm TPU cable, 1m at single end, or customize
Optical Connector	--	SC/APC, or customize
Operating Temperature	$^{\circ}\text{C}$	-20 ~ +100
Operating Humidity	%	10 ~ 95