

Strain Sensor

Alxenses's FBG strain sensor makes use of the sensitivity of fiber grating to measure the strain. The FBG is fixed inside a ruggedized stainless steel housing between two anchoring points. The housing consists of a sliding mechanism that allows both ends to move freely relative to each other.

Features

- Robust and high reliability
- Monitoring of compression as well as tension possible
- Watertight and capable of service in harsh environment

Application

- The strain sensor can be applied to monitor strain changes in various structure



FBG EMBEDDED STRAIN SENSOR - ALESS01



FBG MOUNTABLE STRAIN SENSOR - ALMSS01

SPECIFICATIONS

Strain Sensor (Embeddable ALESS01 & Mountable ALMSS01)

Parameters	Values	Units
Center Wavelength	1510-1590	nm
Strain Measurement Range	+/-1500	µε
Accuracy *	1%	--
Distance Between Anchoring Points	70	mm
Temperature Range	-5 ~ +80	°C
Housing Diameter	8	mm
Pigtail Type	Armored or Jumper cable	mm
Connector Type	FC/APC	--

* The sensor accuracy does not contain error sources originating from the read-out equipment.