



GFBG based, surface mountable strain sensor with measurement range up to 4000 μ and temperature compensation, for static and dynamic measurement of surface strain. Passive sensor, ideal for strain measurement on metal, concrete and reinforced concrete structures, nuclear power plant containments, bridges, dams, etc.

SPECIFICATION

Measure range	0 - 4000 μ
Sensor type	FBG
IP code	IP67
Materials	Stainless steel DIN 1.4301, Aluminum EN AW-6060
Mounting span	300 – 2000 mm
Cord type	Optical fiber G.657.A2, protected by furcation and PU tube.
Spectral sensitivity	~ 1,3 pm / μ
Wavelength	Optional in C-band (1550 nm)
FWHM	~ 100–300 pm
Reflectivity	20–90 %
Connector type	LC/APC, FC/APC or SC/APC

Key features:

- Long term stability, high accuracy and measurement repeatability
- Temperature compensation
- Sub-micron measurement sensitivity*
- Passive optical sensor
- Immune for electromagnetic radiation EMI/RFI
- Suitable for explosive areas
- Sensors could be placed up to several km far from interrogation unit
- Robust and high reliability monitoring of compression as well as tension

* For 1 meter or longer sensors

Application:

- Surface mountable strain measurement on various constructions
- Advance industrial applications
- SHM – bridges, dams, tunnels, etc.

Drawing:

