

Fiber Bragg Grating Sensor

Technica SA

Applications

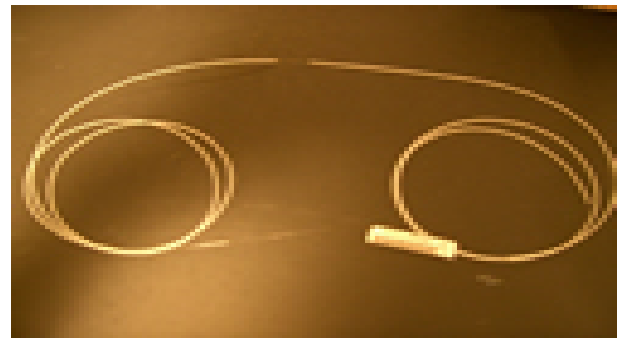
- Civil engineering SHM (bridges, tunnels, buildings)
- Oil & Gas (platform SHM)
- Transportation (railway, roadways)
- Energy (wind turbines, pipelines, nuclear reactors)

Key Features

- High tensile strength
- EMI immunity
- Explosion proof
- Small size & weight
- Absolute Measurement
- Requires no calibration
- Cascaded capability
- Good performance cost ratio

Easy to use

Our fiber Bragg grating (FBG) technology which is recognized as the most promising and successful optical fiber sensing technology. Installation is easy as FBG sensors is mounted using conventional techniques and is designed for use a single of in series as part of a FBG array of sensors



Specifications

Parameter	Unit	Specifications	Remark
Wavelength	nm	1462 to 1614	Other wavelength available upon request
Wavelength Tolerance	nm	+/- 0.5	+/- 0.25 (optional)
Reflectivity	%	1 to 99	-
Reflection FWHM	nm	0.1 to 1	-
FBG Length	mm	1 to 20	-
Sidelobe suppression ratio	dB	Min. 15	-
Fiber Type	-	SMF-28, Polyimide coated fiber, PM fiber	-
Recoat	-	Acrylate, polyimide	-
Pull Strength	kpsi	Min. 100	150, 200 kpsi (optional)
Optical Connector	-	FC/APC,FC/UPC	Others available upon request

Technica S.A. undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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