

FBG Sensor Array

For sensor

iXblue offers the possibility to have one or multiple High Reflectivity FBGs with customized central wavelengths from 600 nm to 2100 nm, on a single optical fiber without any splice.
FBGs are suitable to detect strain, temperature, pressure change in various applications environment.

Thanks to our specialty optical fibers, sensing applications are deep water, outer space, harsh areas with high temperature or radiation condition..

Key Features

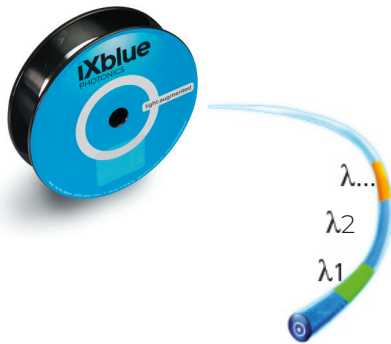
- Temperature, Strain sensing
- Structural Health Monitoring (oil and gaz, nuclear, aeronautic)
- Acoustic sensing

Key Features

- Spliceless FBG array
- Low insertion loss
- Excellent SLSR up to 20 dB
- Customized FBG array configuration
- Large range of wavelengths
- FBGs positioned at discrete points along a continuous fiber
- 125 or 80 μm cladding diameter
- Available on small cladding diameter fiber
- PM available
- Up to 100 FBG
- SMF, PM, CMF or other fiber type
- 600 to 2100 nm

Related Products

- Passive fibers



Main Specifications

Product Name	IXC-SEN
Fiber Type	SMF, PM, CMF, other
Center Wavelength	600 to 2100 nm
Number of FBGs	1 to 100
FWH	0.2 to 1 nm (typical)
Reflectivity	10 to > 90 %
FBG Profile	uniform, apodized, chirped
Proof Test	> 100 kpsi
Coating ¹	standard acrylate or polyimide

¹Buffer and connector upon request

