FRP Sensor

Welltech

Fiber Reinforced Polymer FBG (FRP FBG)

When monitoring sensing points for high strain, distributed FBG cable will be ideal solution for any application. The fbg array is embedded in a glass fiber reinforced plastic (GFRP) that permits fbg to expand and compress freely with strain variation. This packaging protects fiber and makes the sensor robust and easy to handle and install.

Glass FRP



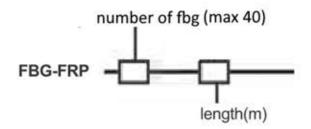
Multi-FBG on FRP

FRP-FBG Strain Sensor

- Wavelength: any wavelength between 1490 to 1615nm
- Diameter 1 mm, 1.5mm, 2mm or 3mm (custom size available)
- Length: any length up to max 300m (longer as option)
- Maximum of FBG: Max 40 on one GFRP rod
- Strain Range: +/-5000ue
- Maximum longitudinal load: 500N
- Accuracy: 1ue
- Resolution: 1ue
- Repeatability: <0.5%
- Linearity: <0.5%
- Reflectivity: > 90%
- Side Lobe Isolation: >15dB
- Material: Glass Reinforced Polymer
- Type: Embedded Type

Strain (µx)	Wavelength(nm)							
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625	1549.475		- 1	THE PROPERTY OF	AND DESCRIPTION OF THE PARTY OF	AND DESCRIPTION AND DESCRIPTIO		
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3125	1552.074							
3750	1552.727	1386			-	_		_
4375	1553.372				~			
5000	1554.025	1554						
5625	1554.672	-		V				
6250	1555.321	2562						
6875	1555.971	APRIL .	N					
7500	1556.622	T	~					
8125	1557.271	1350						
8750	1557.919							
9375	1558.571	1548		1000	100	10000	Plant Co.	CHANGE OF THE PARTY.
10000	1559.244		2000	4,000	M100	8000	30000	12000

Ordering Code



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