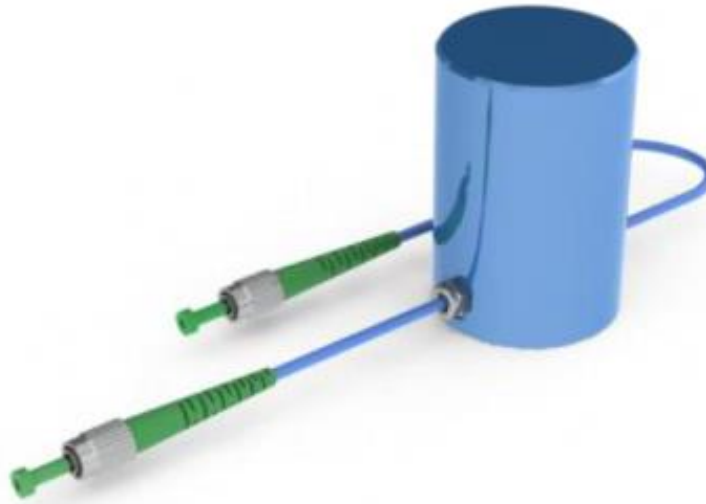


- **FBG acceleration sensor**
- **10 g (100 ms⁻²) range**
- **Zero power, EMI immune, intrinsically safe**
- **Dense multiplexing capability**
- **Multiple km signal integrity for highly remote measurements**



SmartAccel-LF sensor

SmartAccel-LF is a single axis FBG acceleration sensor, suitable for low frequency measurement of small vibrations. The sensor is ideal for the measurement of structural responses to dynamic stimuli, for instance buildings during earthquakes, wind turbines under gust loading, ship hulls under wave loading. Numerous SmartAccel-LF sensors can be multiplexed with our range of other fibreoptic sensors to form an integrated structural health monitoring system. Where higher amplitude or higher frequency vibrations are present, for instance in rotating machine condition monitoring, our [SmartAccel-HF](#) sensor is recommended.

For each of our SmartAccel products, tri-axis acceleration modules are available.

SmartAccel-LF specifications (typ):

	Unit	
Measurement Range	G	+/- 10
Bandwidth	Hz	0 to 50 (resonance typ ~ 430 Hz)
Sensitivity	pm/g	typ 75
Resolution	µg	12.5/sqrt (Hz)
Operating Temperature Range	°C	-20 to +80
Dimensions	mm	73 x 20 dia.
Weight	gr	250