Key features
- 100 x better performance than regular FBG
- Convert wavelength change directly to voltages
- Signal to noise of 50 db
- Works in transmission

Applications
- Leak detection Fuel Tank
- Acoustic Emission
- Leak detection in pipeline
- Delamination in carbonfiber composite panels in aircrafts
- PD detection in transformers, generators and generators

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Min</th>
<th>Max</th>
<th>Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center wavelength in nm</td>
<td>1530</td>
<td>1565</td>
<td></td>
</tr>
<tr>
<td>Wavelength Tolerance in nm</td>
<td>± 0.1</td>
<td>± 0.2</td>
<td></td>
</tr>
<tr>
<td>Line width</td>
<td></td>
<td>1 pm</td>
<td></td>
</tr>
<tr>
<td>Grating length</td>
<td>1 mm</td>
<td>20 mm</td>
<td></td>
</tr>
</tbody>
</table>

Performance & Limitations
- Low frequency down to 10 Hz
- High frequency up to 2 MHz

Supporting Interrogation
- Pound Down Hall Method for Signal Processing modules available
- Packaging adapted to target applications
- PD Sensing 30 – 300KHz in transformers + generators
- Special thin package for in slot PD detection