FenceSentry™ - Distributed Acoustic Sensor

The FenceSentry™ series of Distributed Acoustic Sensors (DAS) are optimised for Perimeter Intrusion Detection (PIDS) and provides detection and locating of intrusion events with minimal nuisance events and false alarms.

### Features
- Location of intrusion event to within 5m
- Intelligent classification engine with motion recognition
- Based on single fiber optic sensing cable. No individual sensors, no metal or moving parts
- Robust and reliable instrumentation with no moving parts (fan free) and utilising high reliability telecom components

### Benefits
- Ability to react to precise location of event for rapid action and effective troubleshooting
- High detection rate of all intrusion events with low nuisance and false alarm rates
- Easy to install and low cost of ownership with low ongoing maintenance costs
- High percentage system uptime (mean time between failures > 19 years) giving complete coverage at all times
### User Interface

The FenceSentry system utilises in-built software with advanced data analytics and intelligent classification engine. With the GIS mapping interface, alarming functionality and waterfall data analytics this can be used as a standalone solution or with Bandweaver’s power Maxview SCADA software.
System Integration

The FenceSentry system has an extremely flexible system architecture enabling it to integrate either with Bandweaver’s Maxview SCADA software or with any 3rd party control systems. With the loose coupling architecture of Maxview it can integrate multiple systems across multiple sites with one coherent, customisable, easy to install user friendly interface.
Robust Anti-Cut Loop Configuration

In 2 channel loop mode configuration the FenceSentry system can withstand accidental or malicious damage to the cable. The system will can continue with full functionality even with a cut to the cable.

Cable Specifications

The FenceSentry system is optimised to work with the Bandweaver Fenceline cable. Fenceline is based on a loose tube cable design optimised to provide signal amplification and additional protection to the sensing cable. As standard comes with 4 fibers but can accommodate additional fibers on request.

<table>
<thead>
<tr>
<th>Cable OD</th>
<th>Fiber Type</th>
<th>Number of cores</th>
<th>Pressure rating</th>
<th>Strength rating</th>
<th>Bend radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2mm</td>
<td>G.652</td>
<td>4+</td>
<td>Short term 1000N</td>
<td>Short term 600N</td>
<td>Static 10 x</td>
</tr>
<tr>
<td></td>
<td>Single mode</td>
<td></td>
<td>Long term 3000N</td>
<td>Long term 1500N</td>
<td>Dynamic 20x</td>
</tr>
</tbody>
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