

**PUBLIC SAFETY & SECURITY**

**Perimeter Intrusion Detection System (PIDS)**



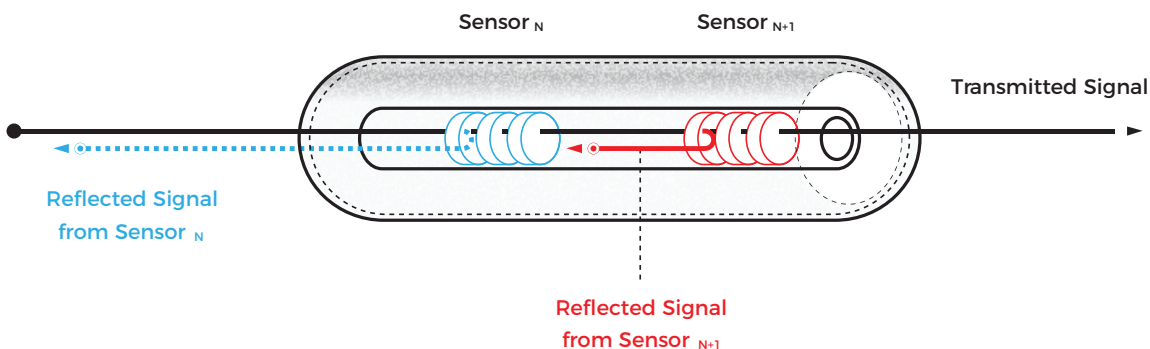
**Fence-Mount PIDS**

AgilFence Perimeter Intrusion Detection System (PIDS) by ST Engineering is a solution designed and developed in Singapore for fence security, offering highly accurate and reliable detection while maintaining low false alarm rates in actual environment.

**How It Works**

These extremely sensitive fibre sensors are able to sense the slightest disturbances to the physical perimeter while maintaining low false alarm rates in various scenarios. These sensors have unique characteristics under normal conditions, where each reflects a specific pattern back to the system. Any type of intrusion will affect the steady state and change the pattern that is being reflected back to the system, which will translate into an intrusion alert.

**Discrete Fibre Sensor**



## Operational Concept



An intruder attempts to breach the perimeter by cutting or scaling the fence. When the fence panel is disturbed, an alert will be triggered to the operations centre.



The nearest strategically placed CCTV on the perimeter is automatically activated to verify the intrusion with pin-point accuracy.



The security response team is quickly activated and dispatched to the precise intrusion locations.



The intruder is apprehended before any damage is done. The entire process is monitored by the operations centre.

## Performance Specifications

<b>Probability of Detection</b>	> 95%
<b>Detection Accuracy</b>	± 5 m
<b>Detection Resolution</b>	20 m
<b>False Alarm Rate (Average)</b>	≤ 3 per day per kilometre in real environment
<b>Resilient to Defeat</b>	Detects tampering and immune to cuts. The cable is able to sustain multiple cuts while maintaining operation

## Technical Specifications

<b>Technology</b>	Fibre optic cable embedded with discrete fibre sensors
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>Sensing Unit: 45 W typical (4-channel, 8-channel, 16-channel)</li> <li>Signal Processing Unit: 460 W</li> <li>No power needed outdoor</li> </ul>
<b>Environmental Specs</b>	<ul style="list-style-type: none"> <li>UV-resistant and armour-protected sensor cable</li> <li>UV-resistant cable tie</li> <li>Sensing Unit &amp; Signal Processing Unit operate in air-conditioned room</li> </ul>
<b>Product Life</b>	<ul style="list-style-type: none"> <li>10 years</li> <li>A comprehensive warranty program and extension option available</li> </ul>
<b>Integration</b>	Integrate with new/existing ISMS & CCTV networks

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