

AGIL Fence Perimeter Intrusion Detection System (PIDS)





AGIL Fence PIDS

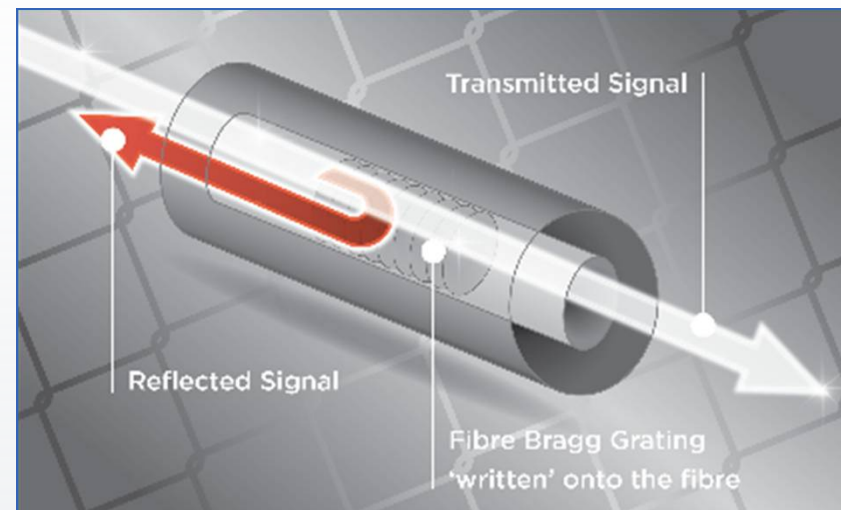
Based on advanced FBG sensors, designed and developed to overcome the perennial issues of poor detection, high false alarm rate and lack of pinpointing capability.

Co-confidential



Next Generation, Fibre Optics Sensors

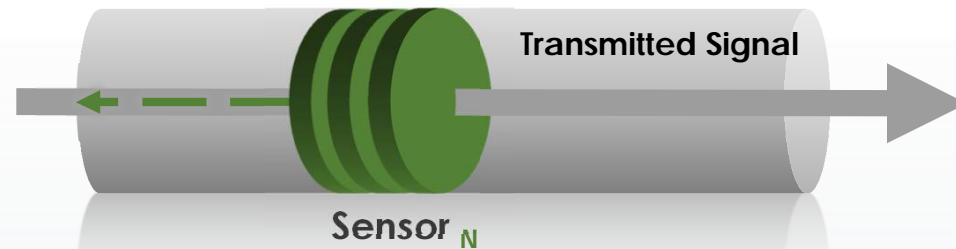
- FBG Sensors embedded in a fibre optic cable, in an array
- Highly sensitive optical strain sensor
- Paired with Advanced Signal Processing Algorithms for false alarm control



Designed and developed by ST Engineering

AGIL Fence – Key Technologies

How does it work?

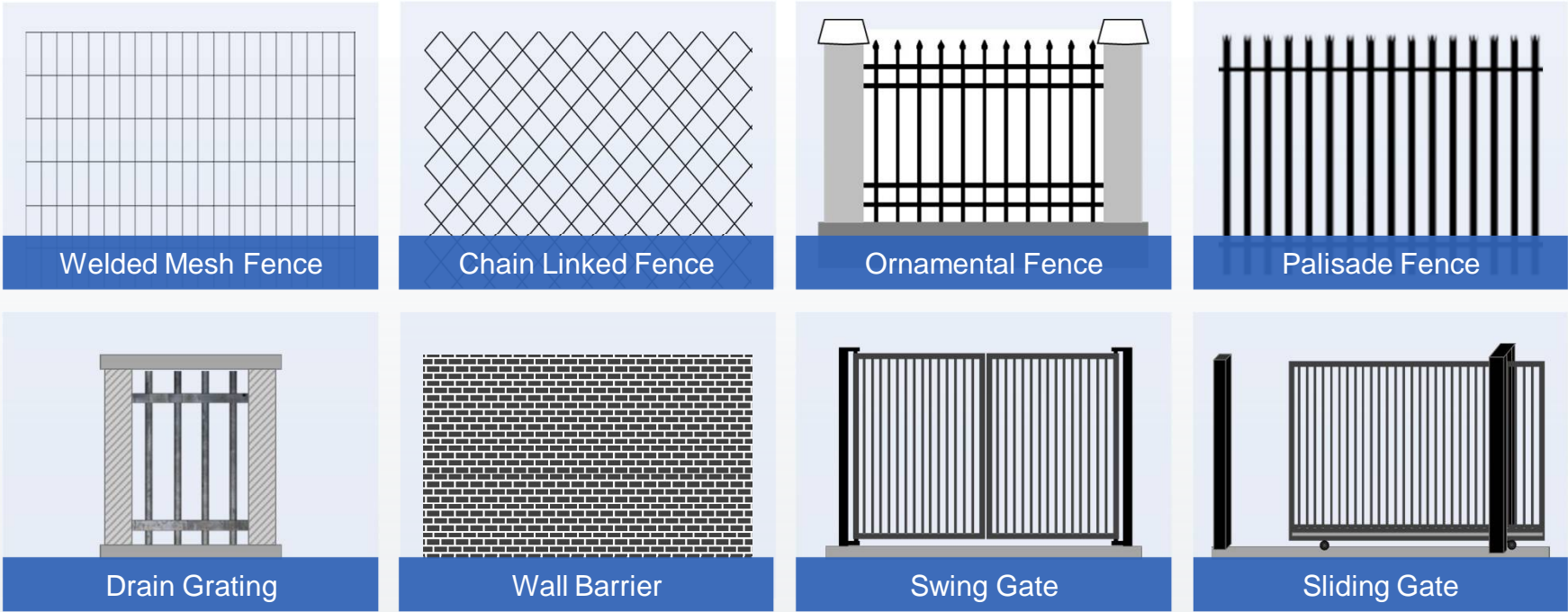


Disturbance puts a **strain** on the **nearest FBG sensor**, causing a change of shade in its reflected colour



AGIL Fence – Key Technologies

High deployment compatibility to barriers



Key Advantages

Co-confidential



AGIL Fence – Key Advantages

Higher probability of detection

- Able to detect silent intrusions (e.g. ladder climbs, fence cuts, etc.)
- Ability to detect and differentiate multiple intrusions
- Proven in every field trial participated
- Higher resilient to defeat



AGIL Fence – Key Advantages

Low NAR

- Proprietary signal processing algorithm intelligently discriminates against nuisance alarm alerts
- Automatically and dynamically adapts to changes in environment
- Customisable sensor settings



AGIL Fence – Key Advantages

Excellent reliability



Example of a microphonic PIDS that is susceptible to lightning strike.

- Immune to EMI, RFI, lightning
- Intrinsically safe

No fear of lightning strikes;
Such incidents result in burnt circuits
- cutting off perimeter security ops

AGIL Fence – Key Advantages

Resilient to defeat

- Detection when cable is cut
- Controlled impact on cable cut; only that channel is affected
- For affected channel, remaining part of cable continues to work

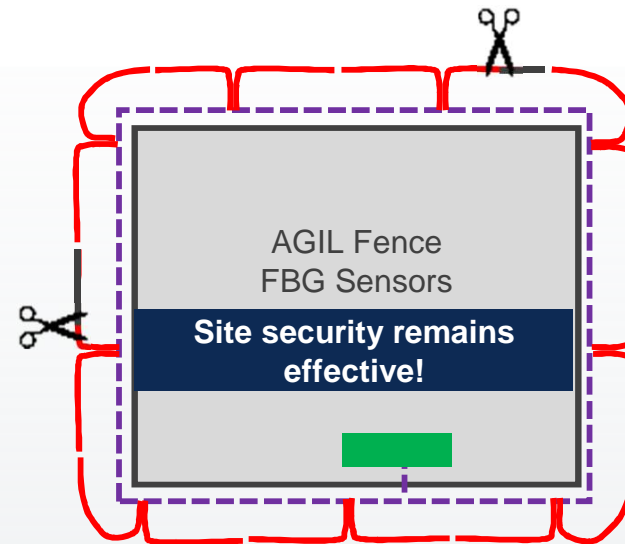


AGIL Fence – Key Advantages

Smart architecture for perimeters

For a 3,000 m site,
when a cable cut takes place anywhere
along the perimeter,
maximum affected length is 300 m.

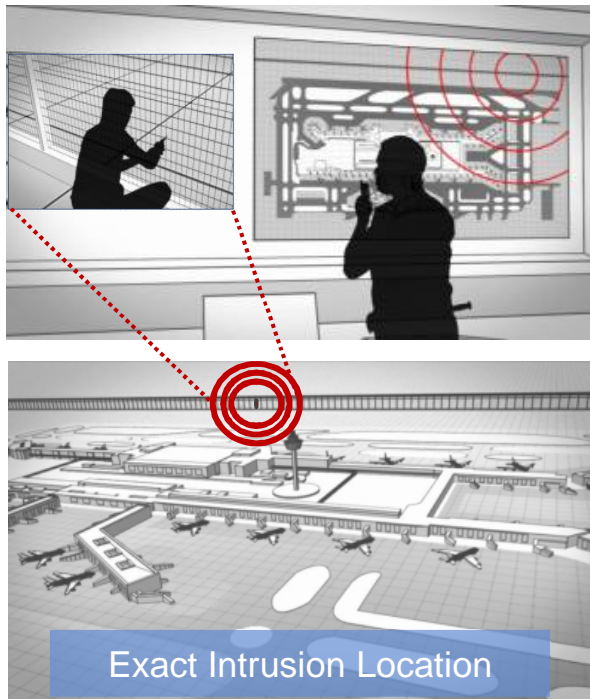
This means,
2,700 m of the perimeter security
is still live and effective



As each channel is independent,
downed areas are controlled and
kept minimal.

AGIL Fence – Key Advantages

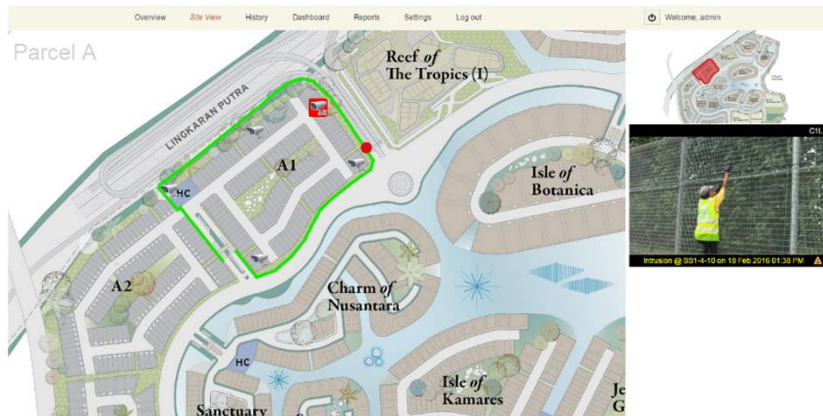
True pin-pointing intrusion



- Able to pinpoint intrusion down to ± 3 m, unlike zone-based PIDS
- Allows fast and accurate responses by security forces, especially important for large installations
- Works hand-in-hand with CCTV to verify alarms and monitor intrusions
- Integration-ready with drone systems

AGIL Fence – Core Capabilities

Integration with surveillance & security platforms



iPAMS

Deployment-ready alarm management software, customisable for various sizes of sites.

Integration ready

Ready to integrate to existing VMS/ISMS/PSIM.

Industry Certifications, Validations & References

Co-confidential



AGIL Fence - Industry Certifications, Validations & References

Approved: Centre for the Protection of National Infrastructure

- 8-month trial at Wales RAF Valley, among the windiest places on earth.
- Ideal performance of zero false alarms per day with > 99% detection.
- AGIL Fence was verified for its system's reliability, detection performance, automatic and dynamic false and nuisance alarm controls.

Since 2016, AGIL Fence PIDS has been included in CPNI's Catalogue of Security Equipment, a selection of equipment approved to protect critical national infrastructure and assets.



ST Engineering

AgilFence

Category: Detection and Tracking Systems

Sub Category: Barrier Mounted Detection

Description

The AgilFence PIDS barrier-mounted uses Fibre Bragg Grating (FBG) sensors on single-mode single-core optical fibre and intelligent signal processing technique to detect intrusion event via fence climb or fence cut while maintaining low false and nuisance alarm rate.

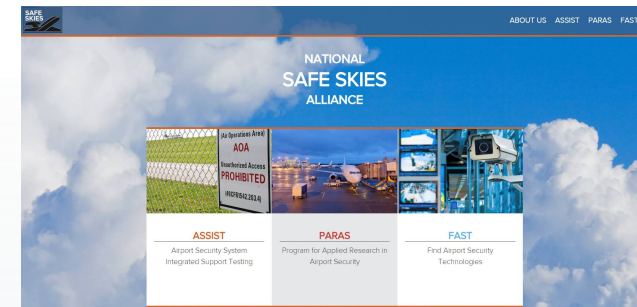


AGIL Fence - Industry Certifications, Validations & References

Verified: Safe Skies Alliance; FAA supported

- Participated in the Safe Skies' Airport Security System Integrated Support Testing (ASSIST) intensive 9-month, all-season evaluation in an airport environment.
- AGIL Fence was verified for the system's ease of operation, installation, detection performance, automatic and dynamic false alarm control.

Completed in Sep 2018, AGIL Fence PIDS is currently listed in Safe Skies' Find Airport Security Technologies (FAST).



AgilFence Fence-Mount PIDS

HOME > PERIMETER > AGILFENCE FENCE-MOUNT PIDS

ABOUT

AgilFence Fence-Mount PIDS uses FBG-embedded optical fiber cable sensor, detects change in mechanical strain cause by fence disturbance (important for detecting silent climb), and utilizes adaptive signal processing software to deliver optimal system performance. It offers accurate and instantaneous detection, thus enabling a facility's security staff to respond quickly and effectively.

CATEGORIES:

Perimeter, Fence Mounted, Perimeter Boundary, Fiber Optic

Taking End-Users' Perimeter Security to Next Peak



**Over 125,800 m
of perimeter protected**

- Power Utilities
- Base Station
- Commercial Buildings
- Gated Communities
- International Airport
- High Security Facilities
- Security Ops Centres
- Transport Hubs

Thank you