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PERIMETER PROTECTION BeeS

BeeS

Smart security system for fences

BeeS™ is a perimeter protection system that can manage both piezoelectric sensor-chains and sections of microphone cable, for the **protection of any type of fence.** It is based on a microprocessor with DSP technology, able to execute the analysis of signals in the time and frequency domain in an extremely accurate way. During operation, the system can distinguish different types of recurring environmental signals, from alarms. The signals generated by the sensors are automatically compared with those previously stored during the system setting. Based on the type and duration of the signal received, the system recognizes the signal and, when necessary, activates the alarm.

OPERATION

BeeS™ operations are based on the detection by the sensors, either piezoelectric sensor-chains or sections of microphone cable, of any mechanical stresses generated by an intrusion attempt such as climbing over, lifting, or cutting the fence.

These stresses are detected by the sensors which, due to a piezoelectric effect, translate them into electrical signals. The DSP analyzer provides enormous computing power and therefore allows the implementation of Fourier Transforms, Digital Filters and more. It **can manage separately eight zones (channels)** of 50 meters each, if the signal exceeds the preset threshold, after subsequent comparisons between the system parameters set, it generates any alarm or pre-alarm anomaly.

Depending on the conformation of the perimeter, the degree of sensitivity to be obtained and the type of fence, you can choose which sensor technology to use and which sensitivity level to set for each individual section.
The system can be connected to any type of alarm control unit and, during the installation phase of the system, it is possible to adjust the operating parameters via personal computer, tablet and smartphone.

VERSIONS

BeeS™ is available in **three versions**: a Stand-Alone USB, a Stand-Alone LAN, for a maximum protection of 400 m (eight zones of 50 meters each) and in a Multiplex version for a maximum protection of 25.6 Km with a single perimeter control unit (MIND™).

ADVANTAGES

• **Easy to install.**
• High computing power for **excellent signal analysis**.
• Maximum real alarm detection performance **(>99%).**
• Very high degree of discrimination of improper alarms **(FAR<1%).**
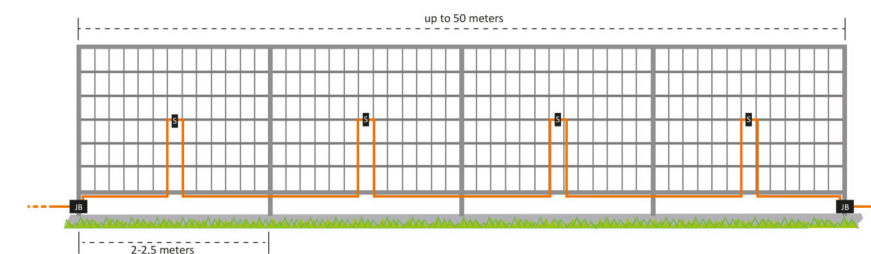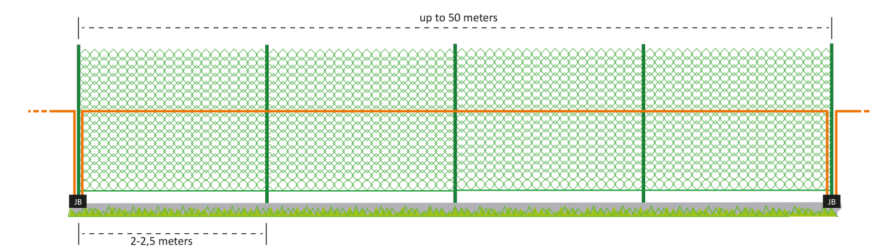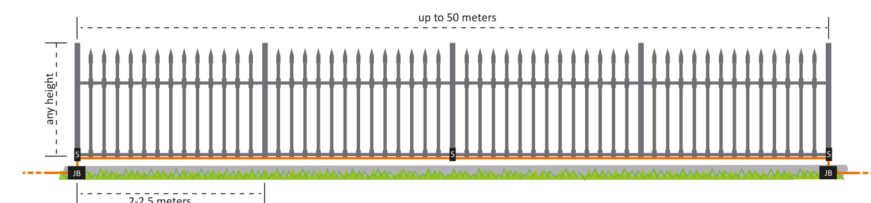• **Attractive and discreet design**: thanks to its small size, the appearance of the fence is not altered.
• BeeS is the only perimeter system to combine **two sensor technologies** (piezoelectric and microphone) in a single analyzer.
• Possibility to easily select **different degrees of sensitivity on different types of fences** on the same perimeter.
• Flexible, simple to install, reliable, precise and extremely convenient both in terms of investment and management costs.

The high sensitivity of the BeeS sensors allows installation even with alternating poles (one yes and one no), while still ensuring the detection of even the most discreet intrusion attempts, such as using a ladder resting on the pole without a sensor.

Examples of installation on different types of fences.

With sensor installed at the bottom of the pole, one yes and one no

With microphonic cable

With sensor mounted in the center of the panel

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GPS STANDARD SRL
Fraz. Arnad Le Vieux, 47 • 11020 Arnad (AO) - Italy • Ph. +39 0125 96 86 11 • Fax +39 0125 96 60 43
info@gps-standard.com • www.gps-standard.com

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