

Sensor Cable

Technical Specification

Detection Capabilities

Footsteps Detection	Up to 12m/39ft radius
Vehicle Detection	Up to 25m/82ft radius
Digging Detection	Up to 25m/82ft radius
Virtual Fence Dimensions	6m width × 25m depth

Communication

Maximum Sensors	Up to 38 sensors per string
Bus Communication	RS485

Environmental & Power

IP Rating	IP68 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Power Supply	12V (9 to 20VDC)
Power Consumption	~15mW (1.3mA @ 12V)

Physical Specifications

Dimensions (Sensor)	131mm × 50mm × 42mm / 5.1" × 1.96" × 1.65"
Dimensions (Spike)	55mm / 2.16"
Weight (Each Sensor)	115g / 0.2lbs
Installation Depth	30-50cm / 11.8"-19.6"



Overview

The Sensor Cable consists of smart seismic sensors connected in a string formation, designed to create an invisible perimeter security system. Each sensor includes a DSP processor for local sampling and processing, providing distributed intelligence throughout the system.



Key Features

- Invisible perimeter protection
- Advanced DSP processing
- Individual sensor sensitivity adjustment
- Low power consumption
- No maintenance required