SGx
Technical Specification

Version 1.4 | August 2026

Detection Capabilities

Footsteps Detection	Up to 12m/39ft radius
Vehicle Detection	Up to 25m/82ft radius
Digging Detection	Up to 25m/82ft radius
Detection Zone	360° coverage
False Alarm Rate (FAR)	1 per two weeks
Probability of Detection (PD)	98%

Integration & Interface

SGx Interfaces	UART TTL, RS485 and Dry Contact

Environmental & Power

IP Rating	IP68 (MIL-STD 810G)
Operating Temperature	-40°C to 85°C / -40°F to 185°F

Physical Specifications

Dimensions (Sensor)	131mm × 50mm × 42mm / 5.1" × 1.96" × 1.65"
Dimensions (Spike)	55mm / 2.16"
Weight	115g / 0.2lbs
Installation Depth	20-50cm / 7.5”-19”



Overview

Smart seismic sensor designed for IoT applications via simple integration with 3rd party controllers/devices. The sensor's sensitivity can be adjusted per event, delivering very low false alarm rates. Unlike conventional analog sensors, SGx has SensoGuard's field-proven adaptive algorithms embedded on a chip for optimal probability of detection.

Key Features

- Adaptive algorithm with event classification
- Maintenance free, simple installation (plug & play)
- Ultra Low Power consumption: ~1mA @ 3.3V - Lowest in industry
- Integration friendly with several interface options
- RoHS compliant

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