SGx XR
Technical Specification

Version 1.4 | August 2026

Detection Capabilities

Footsteps Detection	Up to 18m/60ft radius
Vehicle Detection	Up to 35m/115ft radius
Digging Detection	Up to 35m/115ft 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)	95mm x 70mm / 3.74” x 2.7”
Dimensions (Spike)	75mm / 2.95"
Weight	500g / 1.1lbs
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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