

## Repels® Portable outdoor sensor

**DESCRIPTION** – Repels® is a portable outdoor security sensor that operates like a radar fence. It creates an invisible electromagnetic detection zone along the path of two parallel cables that are supported by poles driven into the ground. Repels is designed specifically for perimeter protection and has none of the limitations of line-of-sight sensors.

**APPLICATION** – The system can be installed in almost any terrain within 30 minutes, and can handle perimeters of any shape. Support poles for cables are driven into the ground and the required amount of cable is reeled out of the processor unit. No cable cutting, connections or fine tuning is required. A soil deployment kit is provided. Once the system is in place, simply turn on the power, and it becomes operational.



### Features

- Battery-powered for operation of typically six months
- Performs well on hills, wooded areas and around corners as well as in flat, straight applications
- One unit protects a perimeter of up to 100 m (328 ft.)
- Multiple units can be linked to cover longer distances
- Light weight

### Benefits

- Portable
- Rapidly deployable
- Easy to set-up
- Cost-effective
- Deployable on most types of terrain and in all weather conditions
- High Probability of detection (Pd)
- Low False and Nuisance Alarm Rates (FAR / NAR)
- Well protected from external electromagnetic interfering sources
- Difficult to defeat

### Markets

- Mobile military assets
- Commercial applications
- Governmental VIP protection
- Police (crime scenes)
- Construction sites
- Vehicle compounds
- Special event security

# Technical Specifications

## How it works

With the cables mounted at 15 cm (6 in.) and 1.2 m (4 ft.) above ground, the resulting detection field is typically 2 m (6.6 ft.) wide, centered on the plane of the cables, and 2 m (6.6 ft.) high.

Like Senstar's other outdoor perimeter sensors, Repels is largely unaffected by small animals, foliage or the environment, resulting in low false and nuisance alarm rates (FAR / NAR) and a high Probability of detection (Pd).

Repels is a battery-powered detector capable of operation for approximately six months (with the transmitter lasting up to 2 years).



**Repels is a portable sensor that acts like a radar fence for outdoor perimeters of up to 100 meters. It can be installed in most types of terrain in about 30 minutes and is ideal for temporary perimeter protection of mobile military assets, construction sites and special event sites, to name a few.**

## COMPONENTS:

- Carrying bag, including a transmitter, and an integrated unit consisting of a receiver processor and 2 cables on a built-in cable reel
- Soil deployment kit: includes support poles, tension cords, hammers and instructions

**PERIMETER LENGTH:** Up to 100 m (328 ft.) - Multiple units can be deployed for longer perimeters

**DETECTION ZONE:** Typically 2 m (6 ft.) wide, centered on the cables, and from the ground to 2 m (6 ft.) high

**PERFORMANCE:** Greater than 99% Probability of detection (Pd) when properly installed. Low false alarm rate; immune to false alarms from small animals, wind, rain, snow, blowing debris, etc.

**POWER SOURCE:** D-size (or equivalent U2 or LR20) alkaline batteries; processor: 5 cells, transmitter: 2 cells

**BATTERY LIFE:** Typically 6 months for processor and 20 months for transmitter batteries, at 20°C (68°F)

**CONTROLS:** Power / reset switch and sensitivity switch on processor

## INDICATORS:

- 3 LEDs on the processor for intrusion, RF power fault and low-battery alarms
- 1 LED on the transmitter for battery test

## OUTPUTS:

- Separate alarm and fault relays
- Type: SPDT (Form C), 1 A @ 30 VDC maximum rating

## SIZE AND WEIGHT:

- Processor unit (in carrying bag): 41 x 43 x 18 cm (16 x 17 x 7 in); 8 kg (18 lb.)
- Soil deployment kit (in carrying bag): 173 x 25 x 25 cm (68 x 10 x 10 in); 12 kg (27 lb.)

## ENVIRONMENT:

- Temperature -40°C to 68°C (-40°F to 155°F)
- Components are water-resistant (non-immersible)

*Specifications are subject to change without prior notice.*



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