

# Serpent Ultrasonic Sensor

EL-Far's high performance **Serpent** solution is a unique detection system that incorporates advanced ultrasonic sensors. It is designed to detect human movement within close proximity to a physical barrier. Ultrasonic sensors installed around the perimeter will provide an early warning alert of an unauthorized approach or presence within close proximity to the protected perimeter. As such, the solution is able to detect intruders scaling over the fence even if physical contact is not made.

## Higher Security Dimension

The solution can be easily integrated into existing security systems. The combination of a physical barrier with this technology creates the highest security level and provides an additional dimension and security layer to perimeter security systems, particularly in areas susceptible to intrusions. In addition, the system's data analysis algorithm ensures a very high detection rate with very low false alarm rates.

EL-Far's Serpent solution includes vibration sensors, making them tamper proof.

The solution can be used in conjunction with other smart sensors to create multi-layered protection and deliver data fusion providing the ultimate security solution.



## Features & Benefits

- Anti masking
- Detection range – 1.5m x 12m
- Detection arc – Varies according to requirements
- Early detection of attempted perimeter penetration
- Can be installed on any type of existing infrastructure
- High detection resolution (+/- 10 meters)
- Maximum performance with minimum energy consumption
- Highest probability of detection
- Unique algorithms ensure lowest false alarm rate
- Sensors are weather proof – resistant to temperature changes, humidity, rain, snow and wind
- Easy to install and maintain

## Specifications

Operating temperature	-30°C to + 85°C
Relative humidity	100%
Operating voltage	12 V, 35-60 V D.C.
Operating current	20 mA @12 V
Enclosure	UV protected P.C. case
Detection range	Adjustable
Detection resolution	+/- 10 meters
Angle of detection	80 degrees
Operating frequency	40 KHz



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