



Mini

Wireless Vehicle Detection System

The **e-Loop Mini** replaces traditional wired inductive loops, saving you time and money while increasing reliability.

The **e-Loop Mini** is the little brother of the commercial e-Loop, perfect for domestic applications.



KIT CONTENTS

- 1 x e-Loop Mini wireless detection module.
- 1 x 12–24VDC single channel transceiver.
- 2 x Concrete fixing bolts.

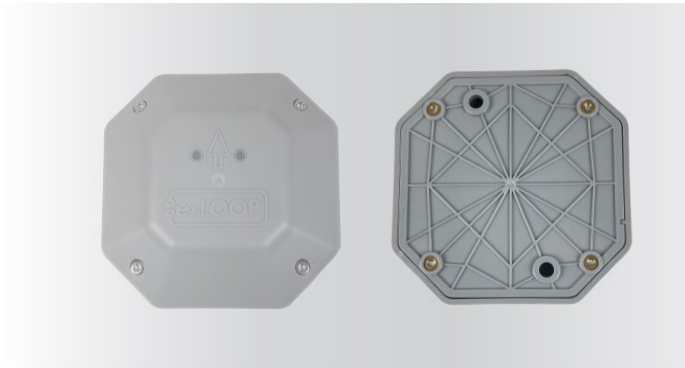
FEATURES

- Quick and easy installation.
- Small compact design (4.7*4.7* 1.1 inches).
- Static load capacity 5500 lbs.
- Uses standard 1.5V AA Lithium batteries (included).
- Uses standard 1.5V AA Lithium batteries (included). Providing up to 3-4 years of battery life depending on usage.
- High security 128-bit encryption.
- Range up to 50 yards.
- IP68.

Domestic e-loop mini

EL00M

The Domestic Wireless Vehicle Detection System uses magnetometer sensors to detect the presence and movement of vehicles. These detections are transmitted to a nearby transceiver for gate activation. The sensors are installed on the surface of entry or exit passages using concrete fixing bolts, contain two replaceable AA batteries, and can withstand almost any vehicle.



Note: Gate or door controller must have a dedicated open input and auto close function enabled.

Functions / Features

Lower power consumption

3-axis magnetometer for vehicle detection

- 8 Hz sampling rate
- Auto-calibration
- Exit/Entry detection mode

Fast and simple installation

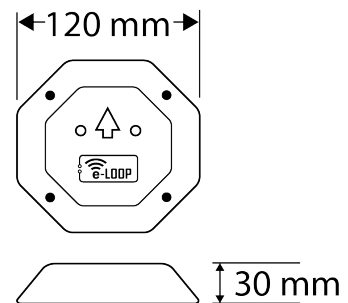
- Quick non-permanent installation

Up to 4 year battery life

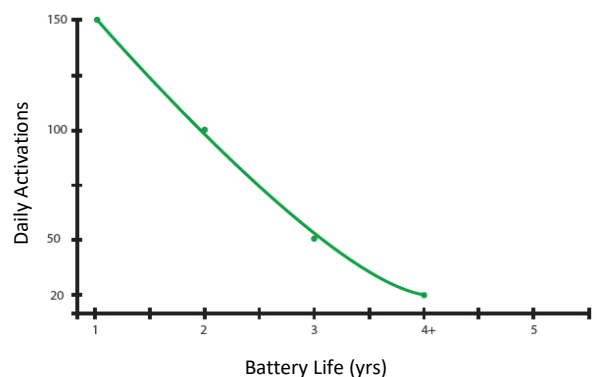
- Compact design
- Compatible with various gates

Reliable radio communications with transceiver

- Reliable radio communication
- High security 128-Bit AES Encryption



Battery Life



Radio Specifications

| | |
|----------------------|---|
| Frequency | 433.39 MHz |
| Modulation | FSK |
| Bitrate | 9.6 kbps |
| Bandwidth | 250 kHz |
| Antenna Type | PCB |
| Nominal Output Power | 10 dBm |
| Receive Sensitivity | -126.2 dBm |
| Security | 128-Bit AES Encryption |
| Spurious Emissions | <ul style="list-style-type: none"> • 30 - 1000 MHz: < -56 dBm • 1 - 12.75 GHz: < -44 dBm • 1.8 - 1.9 GHz: < -56 dBm • 5.15 - 5.3 GHz: < -51 dBm |

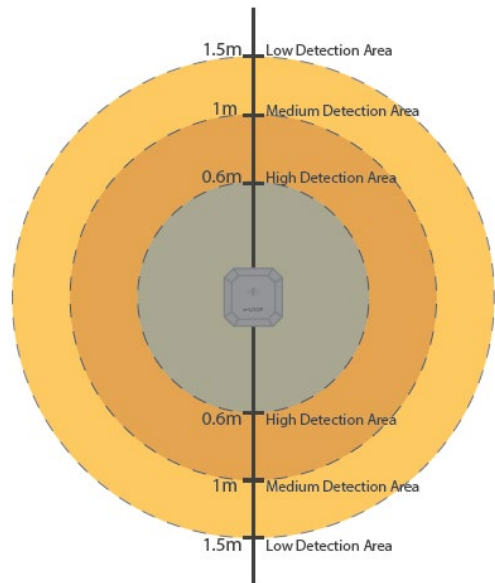
Compliance

| | |
|--------|--|
| Safety | Tested to CE Approval |
| EMC | <p>FSK Tested to: EN 301 489-1 V2.2. "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for Electro Magnetic Compatibility" Including. a)_ Emissions to EN 55032 "Electromagnetic compatibility of multimedia equipment". b)_ Transmitter and receiver test to EN 300 220-1 V3.1.1 'Short Range Devices (SRD) operating in the frequency range 25MHz. to 1000MHz; Part 1: Technical Characteristics and methods of measurement." c)_ Immunity Tests to EN 301 489-1</p> |

Power, Physical and Environment

| | |
|--------------------|---|
| Power | 4 * 3.6 V 2700ma |
| Dimensions | 4.7*4.7* 1.1 inches |
| Weight | 1.1 pounds |
| Environment | <ul style="list-style-type: none"> • designed for above ground mounting • IP68 ingress protection |
| Operating Temp | -40°F to 176°F |
| Standby Power | 14μA |
| Activation Power | 50mA |
| Transmitting power | <10mW |

Magnetometer Detection Areas



1.6 yards = Low Detection Area.
1 yard = Medium Detection Area.
0.6 yard= High Detection Area.