



Introducing a new concept in wireless vehicle detection. The e-Loop replaces traditional wired inductive loops, saving time and money while increasing reliability.

## Wireless Vehicle Detection System

### EXIT MODE

EL00C

#### Installation in 3 simple steps

1. Code in the e-Loop
2. Secure the e-Loop to the driveway
3. Calibrate the e-Loop... and you're ready to operate in less than 15 minutes.

**Save many hours of installation time compared to wired loop systems.**



#### KIT CONTENTS

- 1 x e-Loop wireless detection module.
- 1 x 12–24VDC single channel transceiver (or option LCD e-Trans 200 transceiver).
- 2 x Concrete fixing bolts.
- 1x Magnet.

#### FEATURES – (EL00C MODEL)

- Magnetic field detection.
- Quick and easy installation.
- Compact profile – only 28mm high x 220mm diameter (IP68).
- Not effected by ground movement.
- 10600 mA battery giving up to 10 years battery life.
- High security 128 bit encryption.
- Range 50 metres.
- Made of high-impact plastic (10 tonne static load limit).

## Commercial e-loop EXIT MODE EL00C

The Commercial Wireless Vehicle Detection System uses magnetometer sensors to detect the presence of oncoming vehicles. These detections are transmitted to a nearby transceiver for gate activation. After the vehicle is detected, the e-loop will switch to radar mode. The sensors are installed on the surface of entry or exit passages using concrete fixing bolts, contain four replaceable Lithium 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

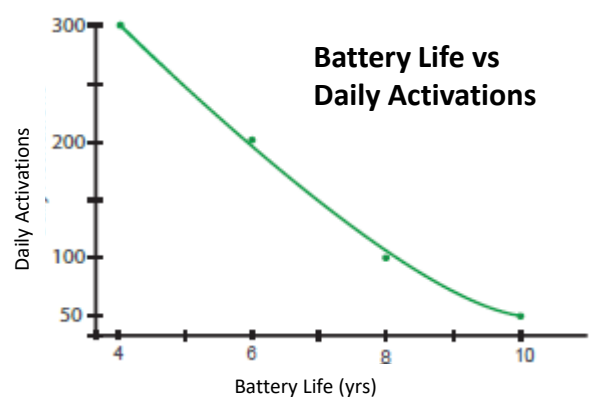
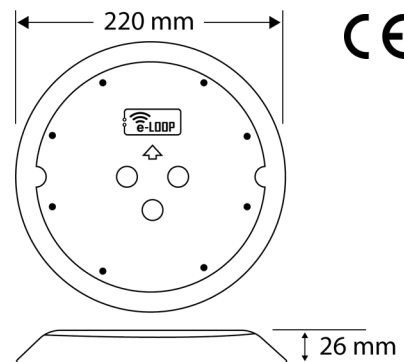
- Quick non-permanent installation

#### Up to 10 year battery life

- Compact design
- Compatible with various gates

#### Reliable radio communications with transceiver

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



Note: Battery life is dependent on many factors, including daily activations, time used per activation, radar range and external conditions.

## 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"> <li>30 - 1000 MHz: &lt; -56 dBm</li> <li>1 - 12.75 GHz: &lt; -44 dBm</li> <li>1.8 - 1.9 GHz: &lt; -56 dBm</li> <li>5.15 - 5.3 GHz: &lt; -51 dBm</li> </ul>

## Compliance

Safety	Tested to CE Approval
EMC	<p>FSK Tested to:</p> <p>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.</p> <p>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."</p> <p>c) Immunity Tests to EN 301 489-1</p>

## Power, Physical and Environment

Power	4 * 3.6 V 2700ma
Dimensions	220*220*26mm
Weight	1000g
Environment	<ul style="list-style-type: none"> <li>designed for above ground mounting</li> <li>IP68 ingress protection</li> </ul>
Operating Temp	-40° to 80° C
Standby Power	14µA
Activation Power	50mA
Transmitting power	<10mW

## Detection Specifications

Activation Time	300ms
-----------------	-------

Magnetometer Detection Areas

