

Commercial Wireless Vehicle Detection System

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 dynabolts, 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

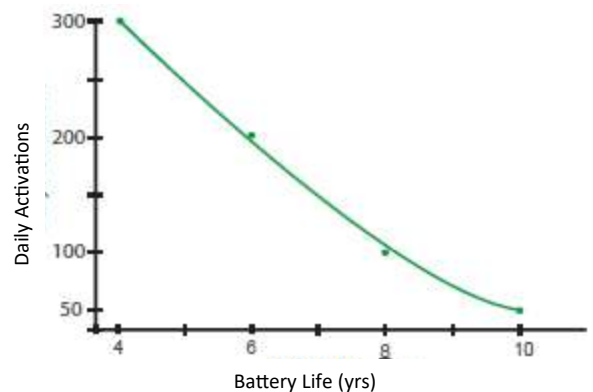
Up to 10 year battery life

- Compact design
- Compatible with various gates

Reliable radio communications with transceiver

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

Battery Life vs Daily Activations



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"> • 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

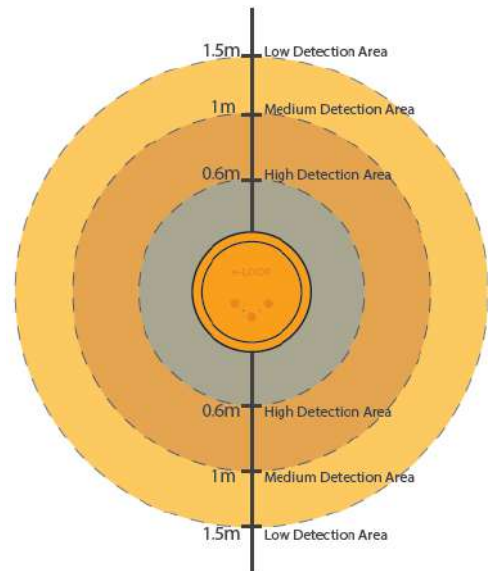
Compliance

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	8.6*8.6*1 inches
Weight	2.2 pounds
Environment	<ul style="list-style-type: none"> • designed for above ground mounting • IP68 ingress protection
Operating Temp	-4°F to 176°F
Standby Power	14µA
Activation Power	50mA

Magnetometer Detection Areas



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