

## Microtech Designs e-loop Micro

The Microtech Designs Micro Wireless Vehicle Detection System uses magnetometer sensors to detect the presence and movement of vehicles. These detections are transmitted to a nearby Microtech transceiver for gate activation. The sensors are installed on the surface of entry or exit passages using dynabolts, contain a single replacable CR123a battery, and can withstand almost any light-medium vvehicle.

**Note:** Gate or door controller must have a dedicated open input and autoclose 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

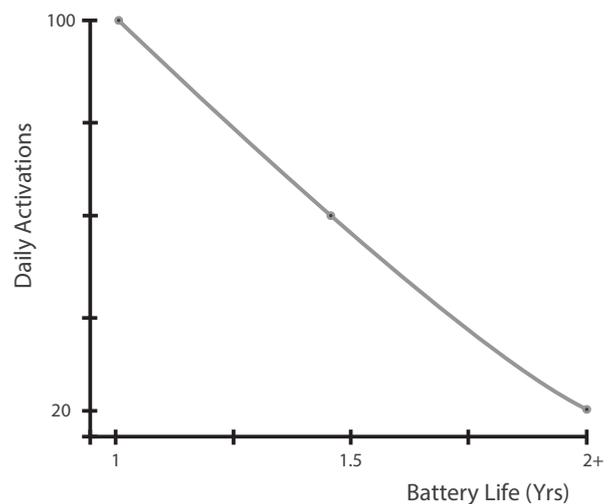
### Up to 2 year battery life

- Ultra Compact design
- Compatible with various gates

### Reliable radio communications with trasceiver

- 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 Emmissions	<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>Tested to: EN 301 489-1 V2.2.3 "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic 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." c)_ Immunity Tests to EN 301 489-1</p>

## Power, Physical and Environment

Power	1 * 3.6 V 1500ma
Dimensions	110*110*23mm
Weight	200g
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	35mA

## Magnetometer Detection Areas

