

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 vehicle.

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

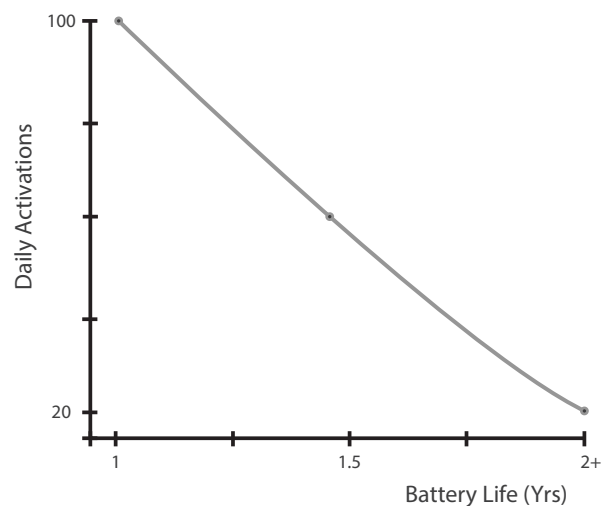
Up to 2 year battery life

- Ultra Compact design
- Compatible with various gates

Reliable radio communications with 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 Emmissions	<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>Tested to:</p> <p>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"</p> <p>Including</p> <p>a)_Emissions to EN 55032 "Electromagnetic compatibility of multimedia equipment".</p> <p>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	1 * 3.6 V 1500ma
Dimensions	110*110*23mm
Weight	200g
Environment	<ul style="list-style-type: none"> • designed for above ground mounting • IP68 ingress protection
Operating Temp	-40° to 80° C
Standby Power	14µA
Activation Power	35mA

Magnetometer Detection Areas

