

# Data Sheet

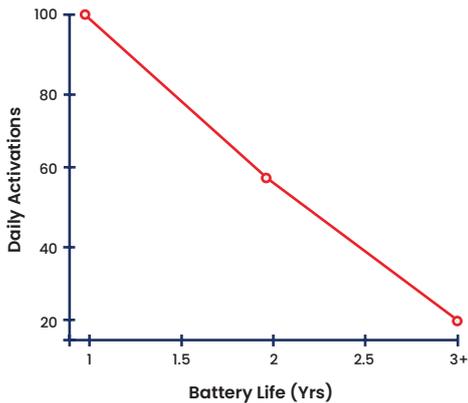
MICROTECH DESIGNS

## Post-Mount ELOOPM

The Microtech Designs Post Mounted Wireless Vehicle Detection System uses military grade magnetometer sensors. With added radar confirmation; to detect the presence and movement of vehicles. Simply code the Post Mount to the included transceiver, calibrate and you're ready to go. Once the sensor has detected a vehicle, a signal is sent to a nearby Microtech transceiver. Capable of operating in all weather conditions.

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

### Battery Life



### Functions / Features

#### Lower Power Consumption 3-axis magnetometer for vehicle detection

- 8 Hz sampling rate
- Auto-calibration
- Exit/Entry Mode Detection
- Presence Mode Detection will flash 3 times. The systems are now paired and you can remove the magnet.

#### Fast and simple installation

- Quick non-permanent installation
- Unobtrusive install

#### Up to 3 year battery life

- Ultra Compact design
- Compatible with various gates

#### Reliable radio communications with transceiver

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

### Power, Physical and Environment

Power	2 * 1.5 V 3000ma AA Lithium Batteries
Dimensions	176mm*70mm*30mm
Weight	200g
Environment	<ul style="list-style-type: none"> <li>To be post-mounted 600mm from the ground</li> <li>IP68 ingress protection</li> </ul>
Operating Temp	-40° to 80° C
Standby Power	14µA
Activation Power	35mA

### 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>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".</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>

### Radar Read Distances

