

Commercial Inground e-loop EXIT MODE EL00IG

The Inground Wireless Vehicle Detection System uses magnetometer sensors to detect the presence and movement of vehicles. These detections are transmitted to a nearby transceiver for gate activation. The sensors are installed in the ground of entry or exit passages using sikaflex, contain a replaceable Lithium battery, and can withstand almost any vehicle. 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

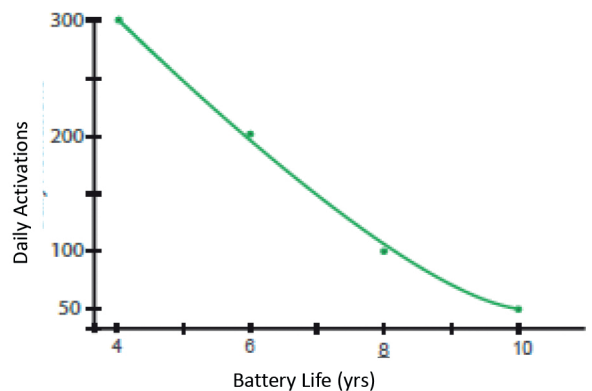
Up to 10 year battery life

- 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:</p> <p>EN 301 489-1 V2.2.3 "Electro Magnetic 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 | 1 * 3.6 V 14500ma |
| Dimensions | 88*88*55mm |
| Weight | 300g |
| Environment | <ul style="list-style-type: none"> • designed for inground (flush) mounting • IP68 ingress Protection |
| Operating Temp | -20° to 80° C |
| Standby Power | 14µA |
| Activation Power | 50mA |

Magnetometer Detection Areas

