

# E-LOOP KITS (Light Industrial and Commercial)

## Wireless Vehicle Detection Technology



Light Industrial (ELOOLI)



Commercial (ELOOC)

Designed by Australian based company Microtech the e-loop is a wireless vehicle detection solution using magnetic field detection technology. The e-Loop is a convenient and reliable alternative to traditional wired inductive loops detectors. Easy to install in minutes and removing the need for ground loops and wiring. It is low maintenance and reliable for years with 6 to 10 years battery life.

Available in 2 models: **Light industrial** and **Commercial**. Both Kits include 1 e-loop wireless module, a single channel transceivers and 2 dyna-bolt. The shell is made of durable High Impact Plastic housing, designed specifically for light industrial settings where dependable detection is critical. Built to stand up to continuous vehicle traffic in spaces such as loading bays, factory perimeters, service yards, logistics centers and car parks.

The sensor provides unwavering accuracy with minimal upkeep. It combines robust construction with intelligent, adaptive technology, ensuring consistent performance in all environments that require a durable, no-fuss detection solution. The **Commercial** model boast the same features but offers a greater static load (10t) and longer battery life (10 year).

Both models offer seamless integration with access control infrastructure and ensures dependable operation in any setting for any Boom Gates, Sliding or Swinging Gates.

### E-loop Key Features include:

#### Features e-Loop Commercial Radar Loop kit PRESENCE, EXIT, PARKING MODES (ELOOC)

- Magnetic field detection
- Static Load Capacity 12 tonnes
- 10600mA battery up to 10 years battery life
- Compact profile – only 28mm high x 220mm diameter
- High security 128 bit encryption
- Range 50 meters

#### Features e-Loop Light Industrial Exit/ Presence Mode -Kit 3000 mA batt (ELOOLI)

- Magnetic field detection
- Static Load Capacity 6 tonnes
- 3000mA AA 1.5V lithium x 2 batteries up to 6 years
- Compact profile – only 28mm high x 220mm diameter
- Range 50 meters

## Technical Specifications

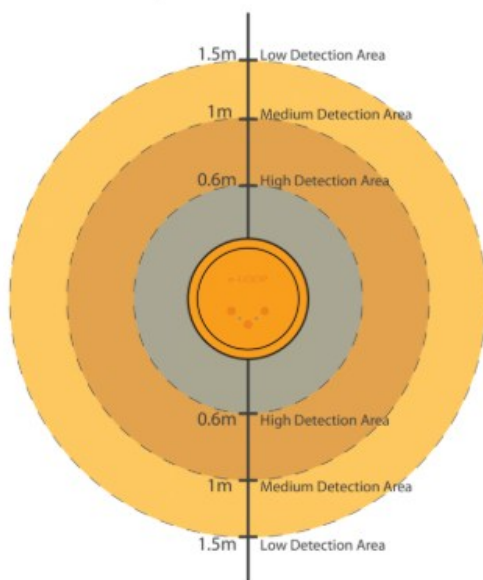
### Power, Physical and Environment

Power	4 * 3.6 V 2700ma
Dimensions	220*220*26mm
Weight	1000g
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	50mA

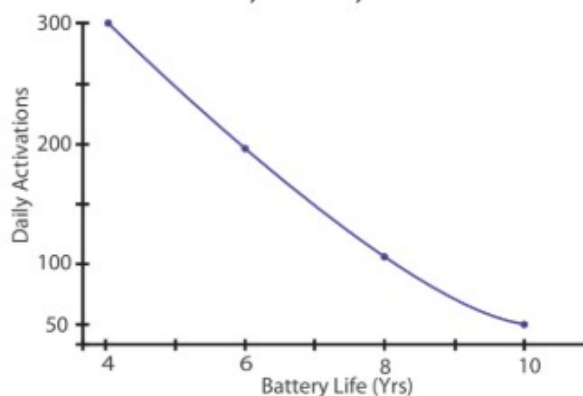
### Radio Specifications

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>

Magnetometer Detection Areas



Battery Life vs Daily Activations



Note: Battery life is dependant on many factors, including daily activations, time used per activation, radar range and external conditions.

Rotech supply all forms of door and gate automation

#### Vehicle Access Control

- Booms Gates
- Sliding Gates
- Swing Gates
- Industrial Door Openers
- Solar Powered Gate Openers

#### Pedestrian Access Control

- Full Height Turnstiles
- Waist Height Turnstiles
- Supermarket Gates/Turnstiles
- Wheelchair Access Gates
- Rapid Access Gates

Fast | Safe | Secure

For more information: t: +61 07 3205 1123 | [www.rotech.com.au](http://www.rotech.com.au) | e: [info@rotech.com.au](mailto:info@rotech.com.au)

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