



MICRO

INSTRUCTION MANUAL

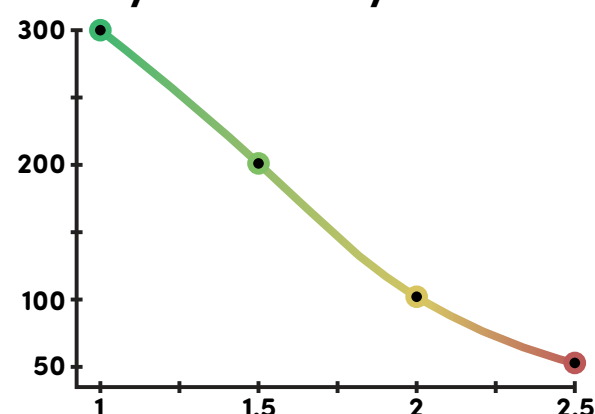


Table of Contents	1
Datasheet	2
Radio Specifications	2
Power, Physical & Environment	2
Compliance	2
Battery Life vs. Daily Activations	2
Magnetometer Range	2
Setup Notes	3
1. Mounting Location	3
2. Electrical Interference Warning	3
3. Interacting with the e-LOOP Using the Included Magnet	3
4. Unit Fitment	3
5. Moving Calibrated e-LOOP	3
Instructions	4
Step 1 - Wiring the e-TRANS	4
Step 2 - Coding to e-TRANS	4
Option 1 Long Range Coding	4
Option 2 Short Range Coding	4
Step 3 - Mounting	5
Auto-Calibration	5
Resetting e-LOOP to Factory Defaults	5

Radio Specifications

Frequency	433.39MHz
Modulation	FSK
Bit Rate	100kbps
Bandwidth	50kHz
Antenna Type	PCB
Nominal Output Power	14dBm
Receive Sensitivity	-126.2dBm
Security	128-Bit AES Encryption
Spurious Emissions	30 - 1000MHz: < -56dBm 1 - 12.75GHz: < -44dBm 1.8 - 1.96GHz: < -58dBm 5.15 - 5.36GHz: < -51dBm

Battery Life vs. Daily Activations

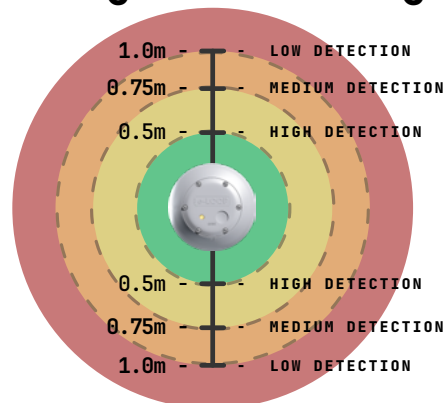


NOTE: Battery Life is dependent on many factors, including daily activations, time used per activation, radar range & external conditions.

Power, Physical & Environment

Power	3V CR123A 1500mA
Dimensions	110 x 110 x 22mm
Weight	300g
Environment	- Designed for above ground mounting - IP68 Ingress Protection
Operating Temp	-40°C - 80°C
Standby Power	14µA
Activation Power	40µA

Magnetometer Range



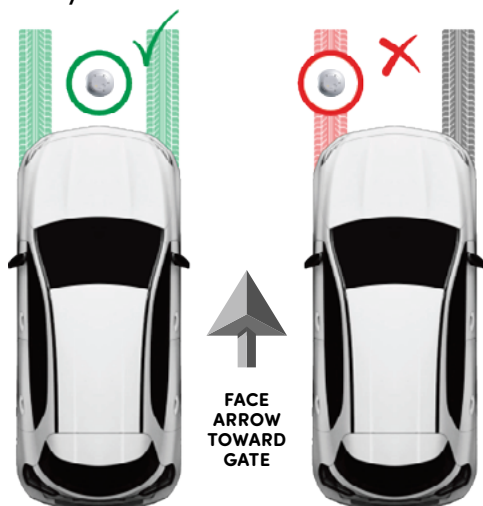
Compliance

Safety	Tested to CE
EMC	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: 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

e-LOOP Fitment/Setup Notes

1. Mounting Location

NOTE: Ensure e-LOOP Sensor is fitted Centrally to the most frequently driven path. This avoids unnecessary drive-overs.



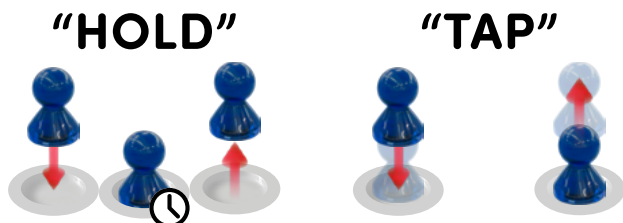
2. Electrical Interference Warning

NOTE: Do not mount e-LOOP sensor in close proximity to high voltage cables. E.g. powerlines. Electromagnetic interference may affect e-LOOP functionality.



3. Interacting with the e-LOOP Using the Included Magnet

NOTE: When interacting with e-LOOP magnetic buttons, note the difference between "Hold" & "Tap"



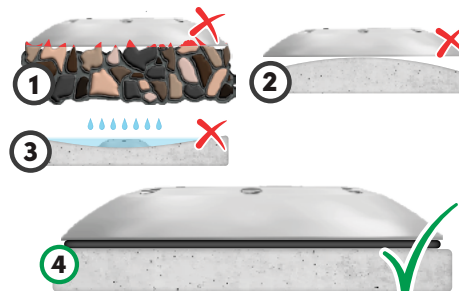
4. Unit Fitment

Ensure e-LOOP is fitted to a clean, level & secure surface. Using the included fasteners and free of any flood-prone areas.

Fig. 1 Do not mount e-LOOP sensors to irregular terrain; rocks, debris or sharp terrain may pierce plastic casing under load.

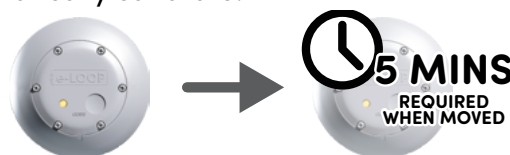
Fig. 2 Do not mount e-LOOP sensors to uneven terrain. Improper mating surfaces may affect calibration or damage the e-LOOP.

Fig. 3 Do not mount e-LOOP sensors in flood areas without adequate drainage. Submerged sensors may suffer inconsistent activation, affected calibration, water ingress & soiling.

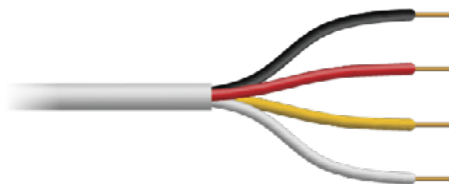


5. Moving Calibrated e-LOOP

NOTE: Once Calibrated, the e-LOOP will require re-calibration when moved. Otherwise a 5-minute wait time is required for the sensor to automatically calibrate.



Step 1 - Wiring the e-TRANS



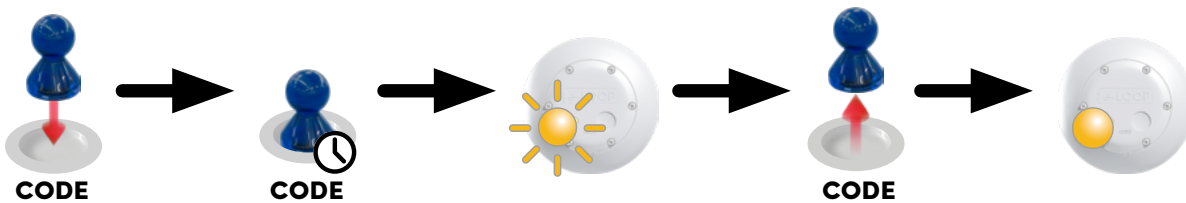
NEGATIVE
POSITIVE
N/O
COMMON

Connect the e-TRANS wires to the corresponding terminals on your gate motor/control board. Ensure gate motor is set to auto-close.

Step 2 - Coding to e-TRANS

Option 1 | Long Range Coding

1. Hold the magnet in the CODE Recess of the e-LOOP. The Yellow LED will flash once. Now remove the magnet. The Yellow LED will illuminate solid.

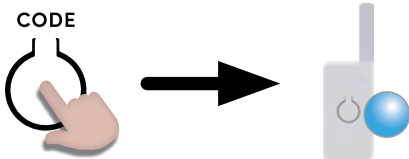


2. Go to the e-TRANS, hold the CODE button until the e-TRANS Blue LED flashes 3 times & the e-LOOP Yellow LED flashes. Indicating a successful pairing. The LEDs will turn off returning back to normal operation.

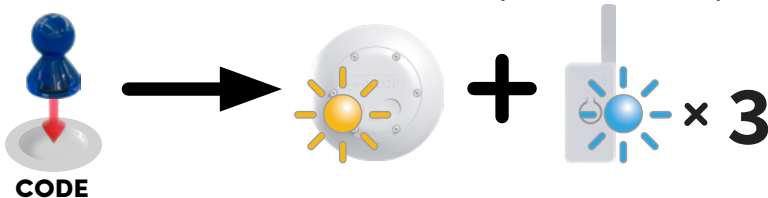


Option 2 | Short Range Coding

1. Hold the CODE button on the e-TRANS until the Blue LED illuminates. Now release the CODE button.

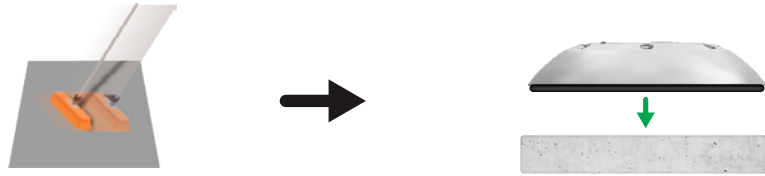


2. Place the magnet into the CODE Recess of the e-LOOP. The Yellow LED on the e-LOOP will flash & the e-TRANS LED will flash 4 times. The systems are now paired, you can remove the magnet.



Step 3 - Mounting

Clean desired mounting location of any dirt or debris. Peel away the adhesive from the back of the e-LOOP press firmly & evenly onto the ground in your desired mounting location. Allow approx. 2 minutes for the adhesive to set before use.



Auto-Calibration

Once mounted, the e-LOOP will take 3 minutes to automatically calibrate to its environment. Please ensure all metal is free of the surrounding area during this time, do not drive vehicles over the e-LOOP during this time.

Resetting e-LOOP to Factory Defaults

To reset the e-LOOP to factory defaults, hold the magnet on the CODE recess for 10 seconds until the Yellow LED flashes 3 times.

