MODEL ID:
ELOOIG

VERSION 4

e-LOOP

IN-GROUND

INSTRUCTION MANUAL



VISIT OUR WEBSITE AT
HTTPS://ELOO.PS
FOR VIDEOS, TROUBLESHOOTING
& MORE DOCUMENTATION

DOWNLOAD THE E-LOOP CONNECT APP FOR ACCESS TO ADVANCED SETTINGS & DIAGNOSTICS.
AVAILABLE ON **ANDROID** & **iPHONE**

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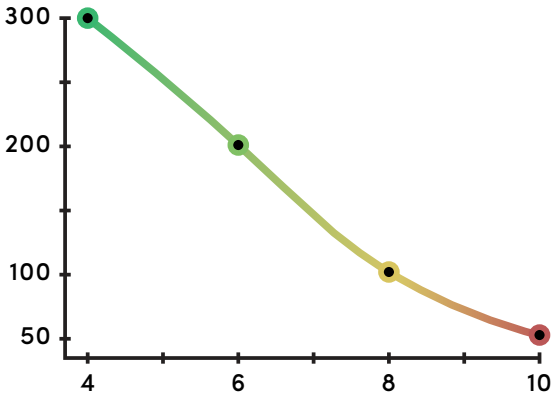
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Radio Specifications

Frequency	433.39 MHz
Modulation	FSK
Bit Rate	100 kbps
Bandwidth	50 kHz
Antenna Type	PCB
Nominal Output Power	14 dBm
Receive Sensitivity	-126.2 kHz
Security	128 Bit AES Encryption
Spurious Emissions	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

Battery Life vs. Daily Activations

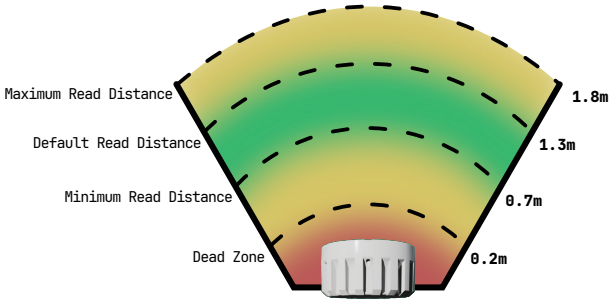


Note: Battery Life is dependant on many factors, including daily activations, time used per activation, radar range & external conditions

Power, Physical & Environment

Power	1 x 3.6V 14500ma
Dimensions	89 x 89 x 57mm
Weight	300g
Environment	• Designed for In-Ground mounting • **IP68** Ingress Protection
Operating Temp	-40° - 80° C
Standby Power	14µA
Activation Power	40µA

Radar Read Distance

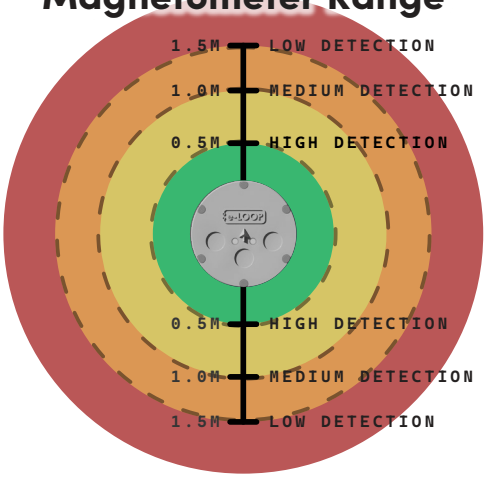


Radar detection range. Spanning from a 60° FOV from the e-LOOP, these are range zones. The Minimum Read Distance is 0.2m. The Default Read Distance is 1.8 & the Maximum Read Distance spans up to 2m.

Compliance

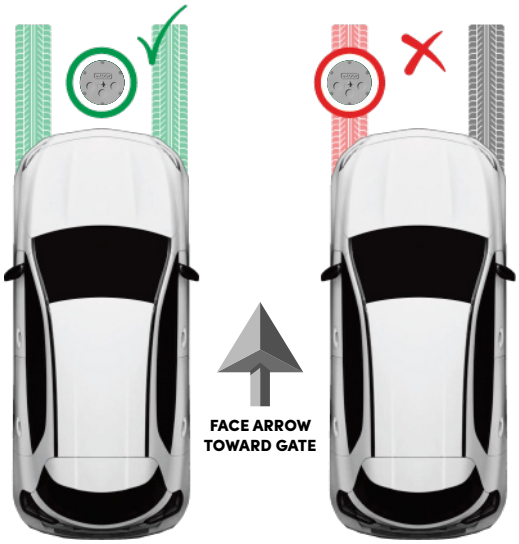
Safety	Tested to CC
EMC	Tested to: EN 301 489-1 V2.2.3 "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility" Including a)_Emissions to EN 55032 "Electromagnetic compatibility of multimedia equipment". b)_Transmitter and

Magnetometer Range



e-LOOP Fitment/Setup Notes

1. NOTE: Ensure e-LOOP Sensor is fitted *Centrally* to the most frequently driven path. Avoiding Unnecessary drive-overs



2. NOTE: Always affix e-LOOP sensor to a *Clean, Flat, Level* surface.

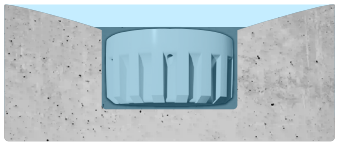


Fig. 1 Do Not Mount in a flood area. Unit cannot detect while submerged.

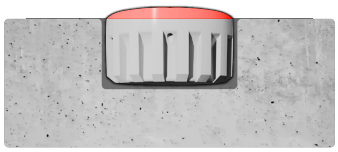


Fig. 2 Ensure you mount *flush* with surface to avoid unwanted damage.

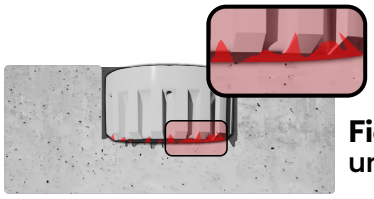
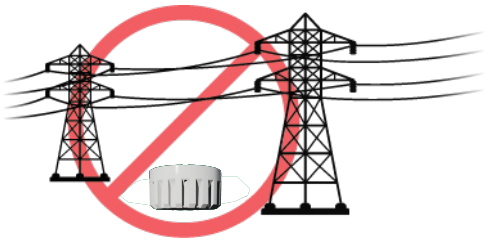
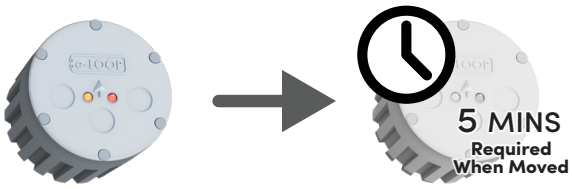


Fig. 3 Do not mount on uneven, jagged surfaces.

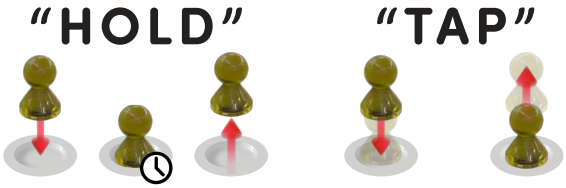
3. NOTE: Do not mount e-LOOP sensor in close proximity to high voltage cables. E.g. Power Lines, electromagnetic interference may affect e-LOOP functionality.



4. 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.



5. NOTE: When interacting with the e-LOOP magnetic buttons. Note the difference between "Hold" & "Press".



6. NOTE: The e-LOOP In-Ground is capable of 3 operational modes.

EXIT MODE: Sends a single pulse trigger to receiver upon detection.

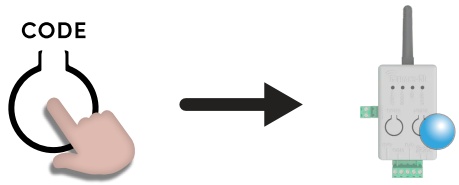
PRESENCE MODE: Pulses & Latches relay holding gate open whilst loop still detecting vehicle.

PARKING MODE: Same behaviour as Presence Mode, slower latch, slower release & lower power use.

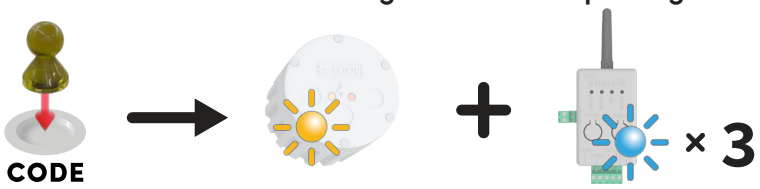
Step 1 - Coding to e-TRANS

Option 1 | Short Range Coding

1. Hold the CODE Button until the Blue LED illuminates. Now Release the CODE Button.

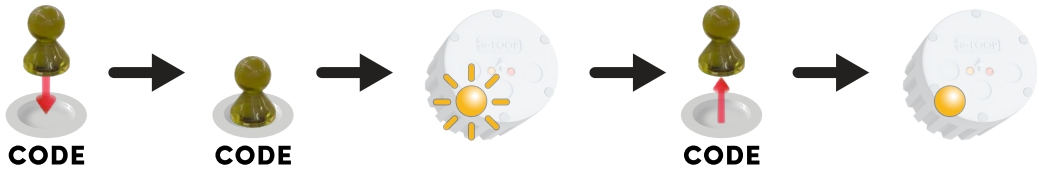


2. Hold the magnet in the CODE Recess. e-LOOP Yellow LED will flash & e-TRANS Blue LED will flash 3 times. Indicating a successful pairing.



Option 2 | Long Range Coding

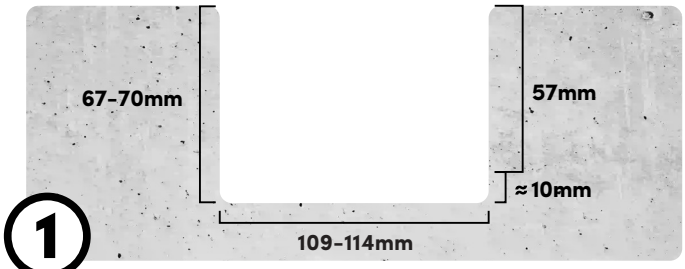
1. Hold the Magnet in the CODE Recess of the e-LOOP. The Yellow LED will flash once. Now remove the magnet. The Yellow LED will illuminate solid.



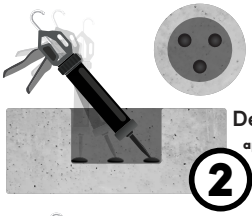
2. Go to e-TRANS 50, hold the CODE button until the e-TRANS Blue LED flashes 3 times and the e-LOOP Yellow LED flashes. Indicating a successful pairing. The LEDs will turn off returning back to normal operation



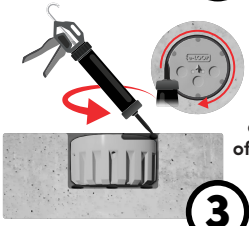
Step 2 - Mounting



1 Core Bore a 110mm hole, 67-70mm deep. Clean the lower surface of any debris or rough edges, ensure surface is level.



2 Deposit 3 drops of silicon adhesive approx. 10mm diameter in a triangular pattern at the base of the hole.



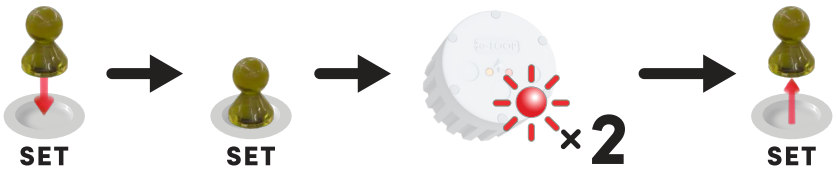
3 Place e-LOOP unit into the hole, press firmly down until the e-LOOP is flush with the top of the hole. Run a bead of adhesive between the unit & the edge of the hole. Ensuring it seals completely.

NOTE: Do not over-fill the cavity, seal only the top to allow for movement.

⚠ ALWAYS FIT IN ACCORDANCE WITH FITMENT NOTES. FAILURE TO DO SO MAY VOID WARRANTY

Step 3 - Calibration

1. Remove any metallic objects away from the e-LOOP sensor.
2. Hold Magnet in SET recess on e-LOOP, until the Red LED flashes twice. Then remove the magnet.



3. The e-LOOP will take about 5 seconds to calibrate, once complete the red LED will flash 3 times



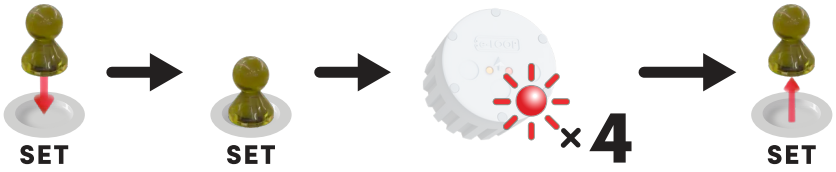
NOTE: After Calibration you may get an error indication.

ERROR 1: Low Radio Range - Yellow LED Flash 3 Times

ERROR 2: No Radio Connection - Yellow & Red LED Flash 3 Times.

Un-Calibration

Hold magnet in SET recess on e-LOOP, until red LED flashes 4 times. e-LOOP is now uncalibrated



Connecting With e-CONNECT App

The e-LOOP Connect Mobile Application is available for both Android & iPhones. Download to access advanced settings & diagnostics.

Download on the App Store

GET IT ON Google Play

Step 1.

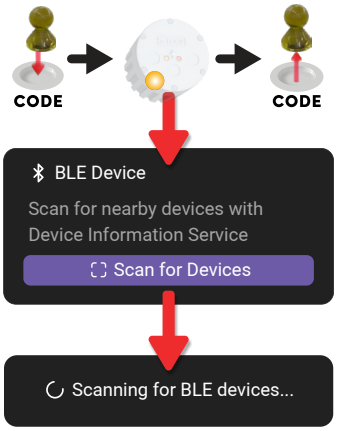
Open the e-LOOP Connect mobile application

Allow all requested device permissions (bluetooth, wifi, etc)

Tap the magnet on the CODE recess of the your e-LOOP. Yellow LED will Illuminnate solid

Press “Scan for Devices”

Allow the application a moment to scan for devices

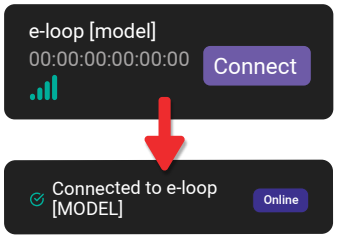


Step 2.

Once e-LOOP is located, details will be shown. Tap “Connect” on the corresponding e-LOOP tab.

Once a successful connection has been established you will be shown a summary of the unit.

You are now ready to make your desired changes.



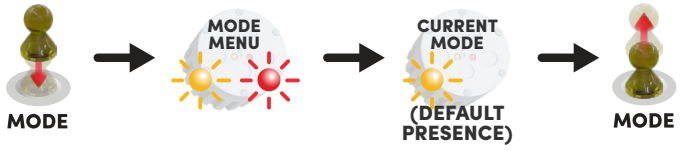
Changing Mode

The e-LOOP Light Industrial has *3 modes:* Exit, Presence & Parking. These modes can be changed physically & via the e-CONNECT APP.

⚠ **NOTE: DO NOT USE PRESENCE MODE AS A PERSONAL SAFETY FUNCTION, IT IS DESIGNED FOR OPERATION ONLY FOR USE WITH VEHICLES NOT PEDESTRIANS.**

ENTERING MENU

1. **HOLD** Magnet in **MODE** recess on e-LOOP, until the **Both** LEDs will flash once; then LED indication of current mode will flash



EXIT MODE

2. **HOLD** Magnet in **SET** recess on e-LOOP, until the **Red** LED starts **flashing**; this indicates **EXIT MODE.**



PARKING MODE

3. **HOLD** Magnet in **MODE** recess on e-LOOP, until the **Yellow** LED illuminates **Solid**; this indicates **PARKING**



PRESENCE MODE

4. **HOLD** Magnet in **CODE** recess on e-LOOP, until the **Yellow** LED illuminates **Solid**; this indicates **PRESENCE MODE.**



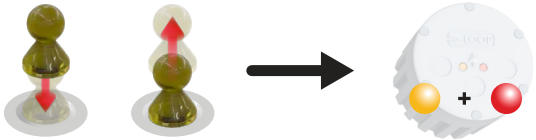


To enter the **CONFIRMATION MODE MENU**, wait 5 seconds after operational mode is confirmed via LED

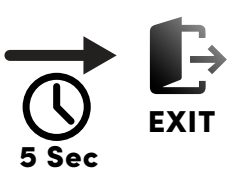
CONFIRMATION MENU



1. Once in the Confirmation Menu, the **Red** LED will illuminate **Solid.** Indicating that Confirmation is **NOT** enabled.
2. To **Enable** Confrmation Mode, Tap magnet on to the **CODE** recess. **Both** the **Yellow & Red** LEDs will illuminate solid. Indicating Confirmation mode is enabled.



3. Once desired setting is selected, wait 5 Seconds and the Confirmation Menu will be exited auomatically. Both LEDs will flash 3 times to indicate this



To **EXIT MENU** Wait 10 Seconds



Changing Mode With e-CONNECT App

NOTE: For Connection Instructions Refer to Page 4

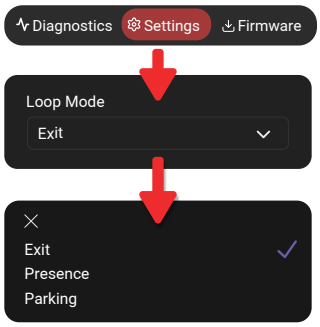
Step 1

Scroll down to the Loop Settings menu.

Select the dropdown menu within the Loop Settings section.

Change to mode of choice: Exit, Presence (Default) or Parking.

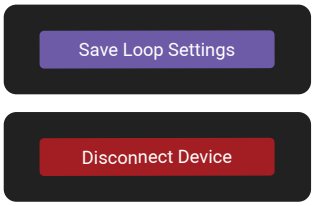
Once selected, press the X to close the dropdown menu.



Step 2

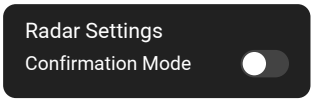
Once you have selected the operational mode of your choice, press "Save Loop Settings"

After successfully saving, press "Disconnect Device" to return loop to regular operation.



Confirmation Mode

To turn on Confirmation Mode, Scroll down to the Radar Settings menu.
Tap the switch next to the "Confirmation Mode" label to toggle On/Off.



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.

