

MODEL ID:  
E L O O L I

VERSION 4

# e-LOOP

## LIGHT INDUSTRIAL

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## INSTRUCTION MANUAL



VISIT OUR WEBSITE AT  
[HTTPS://ELOO.PS](https://eloo.ps)  
FOR VIDEOS, TROUBLESHOOTING  
& MORE DOCUMENTATION



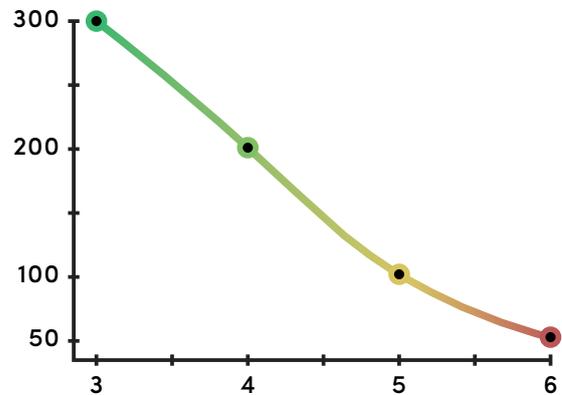
DOWNLOAD THE E-LOOP CONNECT  
APP FOR ACCESS TO ADVANCED  
SETTINGS & DIAGNOSTICS.  
AVAILABLE ON **ANDROID** & **iPHONE**

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## Radio Specifications

Frequency	433.39MHz
Modulation	FSK
Bit Rate	100kbps
Bandwidth	50kHz
Antenna Type	PCB
Nominal Output Power	14dBm
Receive Sensitivity	-126.2kHz
Security	128Bit AES Encryption
Spurious Emissions	30 - 1000MHz: < -56dBm 1 - 12.75GHz: < -44dBm 1.8 - 1.9GHz: < -56dBm 5.15 - 5.3GHz: < -51dBm

## Battery Life vs. Daily Activations

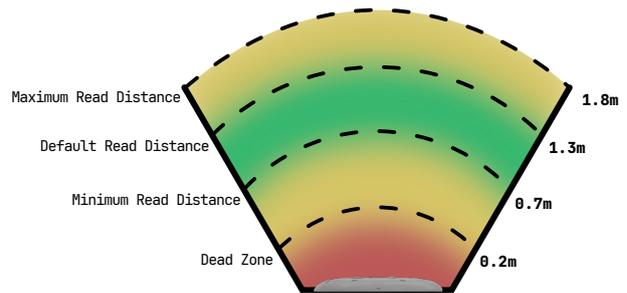


**Note:** Battery Life is dependant on many factors, including daily activations, time used per activation, radar range & external conditions

## Power, Physical & Environment

Power	4 x 3.6V 2700ma
Dimensions	224 x 224 x 36mm
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° - 80° C
Standby Power	14µA
Activation Power	40µA

## Radar Read Distance

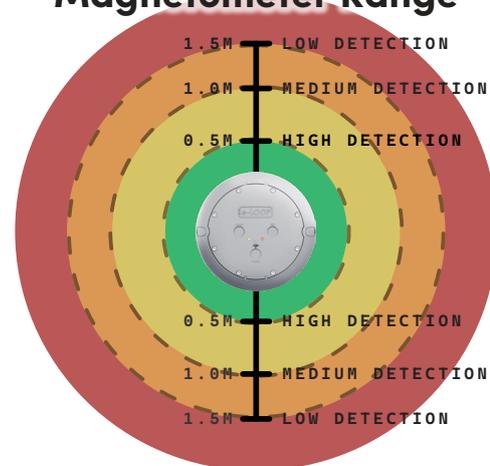


Radar detection range. Spanning from a 60° FOV from the e-LOOP, these are range zones. The Minimum Read Distance is 0.2m. The Default Read Distance is 1.8 & the Maximum Read Distance spans up to 2m.

## Compliance

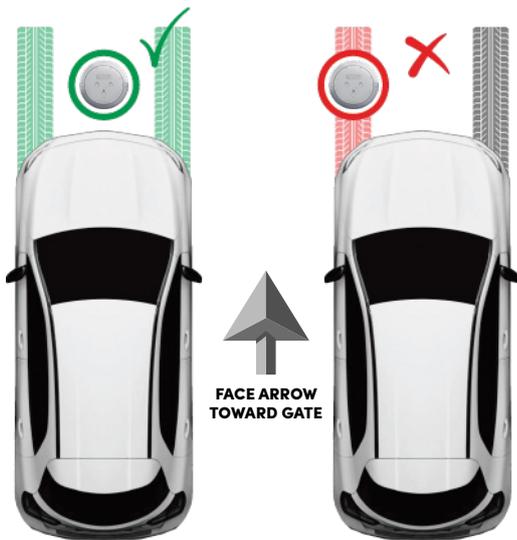
Safety	Tested to CC
EMC	<p>Tested to: EN 301 489-1 V2.2.3 "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility" Including a)_Emissions to EN 55032 "Electromagnetic compatibility of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

## 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

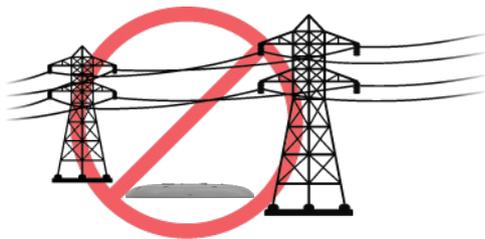


**2. NOTE:** Always affix e-LOOP sensor to a *Clean, Flat, Level* surface.

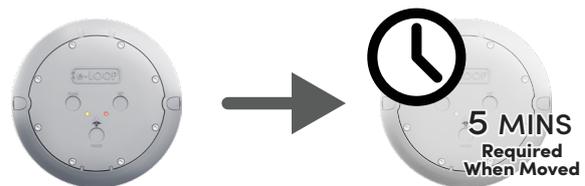
Fig. 1 Securing e-LOOP Sensors to the ground using adhesives, may detrimentally effect static & dynamic load capacity.  
 Fig. 2 & 3 Do not mount e-LOOP sensors to irregular terrain; rocks, debris or sharp terrain may pierce plastic casing under load.  
 Fig. 4 Do not mount e-LOOP sensors uneven terrain. Improper mating surfaces may effect calibration or damage the e-LOOP.  
 Fig. 5 Do not mount e-LOOP sensors in flood areas without adequate drainage. Submerged sensors may inconsistent activations, effected calibration, water ingress & soiling.



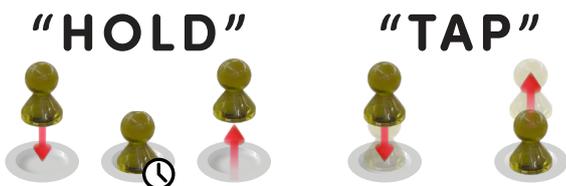
**3. NOTE:** Do not mount e-LOOP sensor in close proximity to high voltage cables. E.g. Power Lines, electromagnetic interference may affect e-LOOP functionality.



**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" & "Tap".



**6. NOTE:** The e-LOOP Light Industrial is capable of 3 operational modes.

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

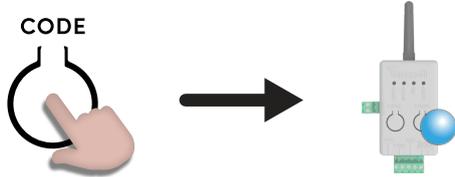
**PRESENCE MODE:** Pulses & Latches relay holding gate open whilst loop still detecting vehicle.

**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.

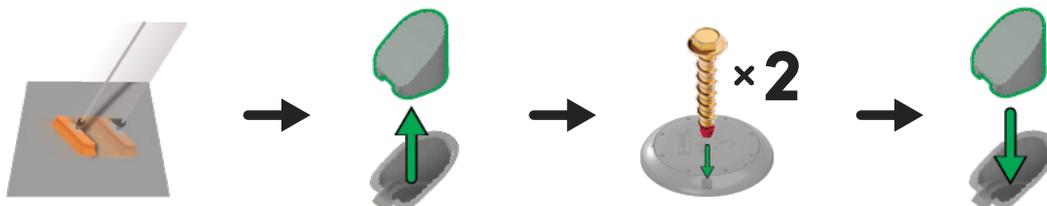


2. Go to e-TRANS 50, hold the CODE button until the e-TRANS Blue LED flashes 3 times and the e-LOOP Yellow LED flashes. Indicating a successful pairing. The LEDs will turn off returning back to normal operation



## Step 2 - Mounting

Clean desired mounting location of any dirt or debris. Remove the screw caps from the e-LOOP, secure the e-LOOP with the included fasteners. Ensure the e-LOOP is firmly secured & cannot be moved. Reinstall Dust Caps.



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



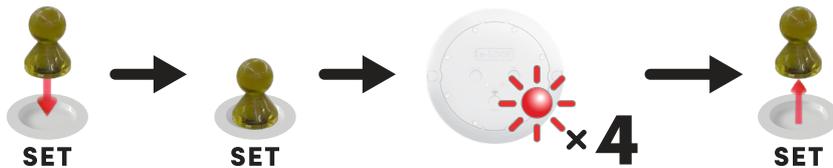
**NOTE:** After Calibration you may get an error indication.

**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.



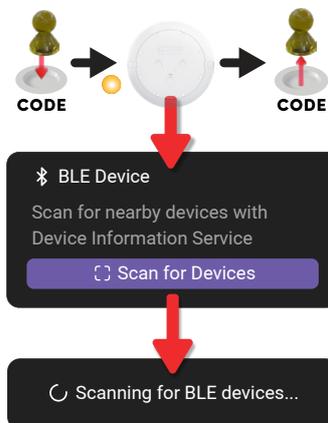
### Step 1.

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 illuminate solid

Press "Scan for Devices"

Allow the application a moment to scan for devices

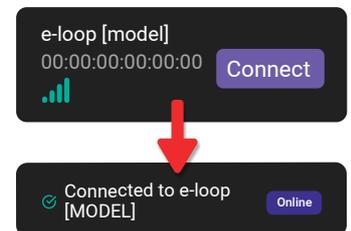


### Step 2.

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.



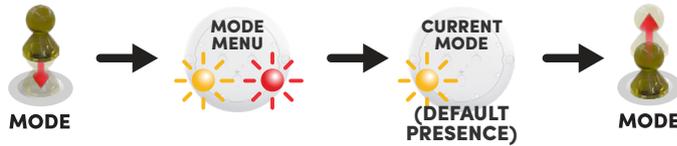
## Changing Mode

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

- 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

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



### PARKING MODE

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



### PRESENCE MODE

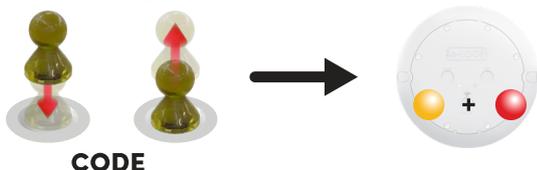
- HOLD Magnet in CODE** recess on e-LOOP, until the **Yellow LED illuminates Solid**; this indicates **PRESENCE MODE**.



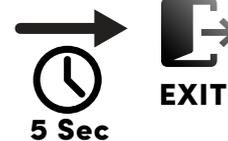
**5 Sec** To enter the **CONFIRMATION MENU**, wait 5 seconds after operational mode is confirmed via LED

### CONFIRMATION MENU

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



- Once desired setting is selected, wait 5 Seconds and the Confirmation Menu will be exited automatically. 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

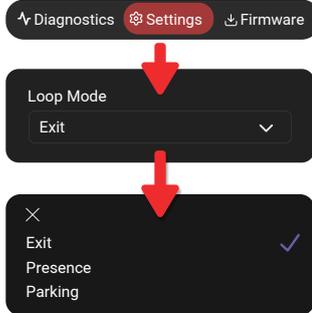
### Step 1

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.

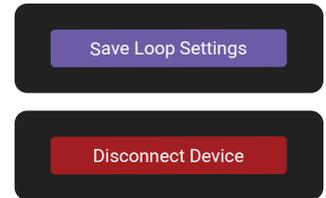
Once selected, press the X to close the dropdown menu.



### Step 2

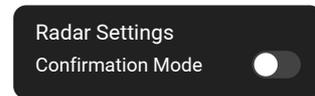
Once you have selected the operational mode of your choice, press "Save Loop Settings"

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.

