



TIPS

Refer to the User's Guide for full instructions.

EVOLoop TEACH-IN

This document provides important installation information for physical installation (mounting, wiring, tilt adjustments) and programming (via mobile app). Additionally, there is application-specific information related to barrier arm and gate applications to ensure successful installation.

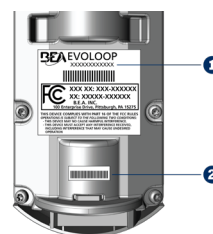
INSTALL MOBILE APP



Scan the QR code or click on the app store logo open the following link to download the mobile app and install it.

NOTE: First-time pairing code is 456789.

NOTE SERIAL NUMBER



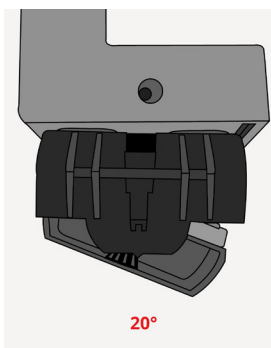
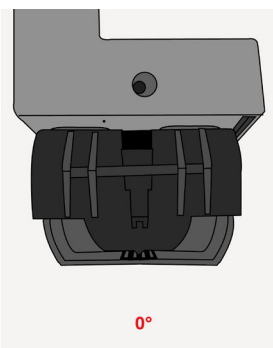
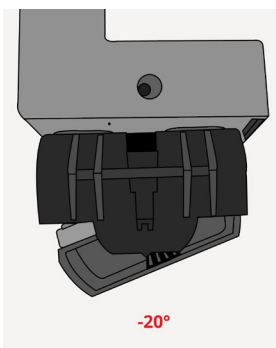
Before mounting the product, it is advisable to take note of the sensor's serial number. This information will be used in step 2.

MOUNTING

IMPORTANT

The sensor must be installed using the instructions detailed in the User's Guide 75.0102 (<https://us.beasensors.com/en/product/evoloop/downloads/>).

- The sensor must be **correctly mounted**, between 11.8" (30cm) and 27.6" (70cm) from the ground.
- The antenna must be **properly oriented** according to the application:
 - » **Recommendation A - One-way Access:** Rotate the sensor face 20° to ensure that it faces approaching traffic.
 - » **Recommendation B - Two-way Access:** The sensor face must remain parallel to the traffic flow.



FACTORY STATE

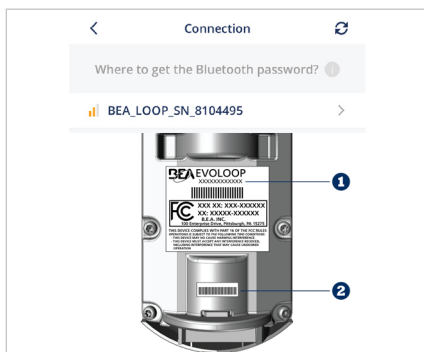
The orange LEDs blink and outputs are activated upon initial power-up (out-of-the-box) or after a factory reset.



CONNECT TO SENSOR

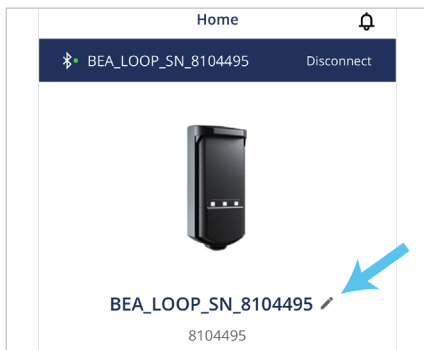


Once power is applied to the EVOLOOP, open the EVOLOOP mobile app and search for your sensor.

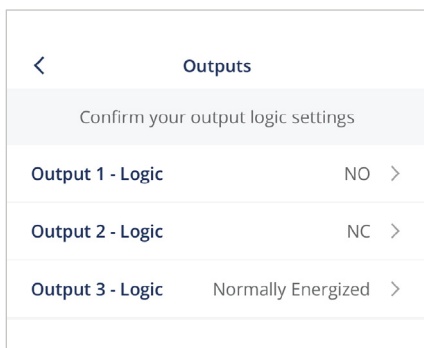


Select your sensor.

The numerals following "BEA_LOOP_SN" should match the number on the smaller label on the back of the sensor.



You are connected and can now name your sensor.



Before starting the teach-in process, assign the sensor outputs.

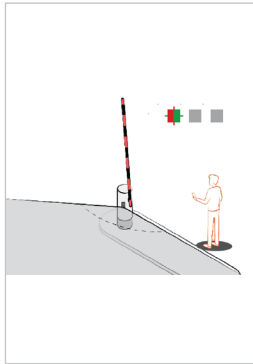
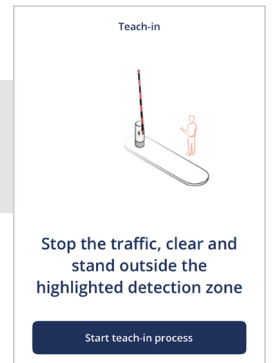
This step is very important because it ensures proper operation and correct interaction between the sensor and the barrier during the various teach-in phases. During this process, the sensor automatically controls the barrier's opening and closing operations.

ENVIRONMENT TEACH-IN

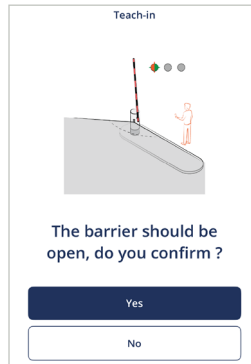
The first step of setup is the environment teach-in. This teach-in allows the sensor to analyze and characterize its surroundings to ensure optimal performance and reliable detection.

IMPORTANT

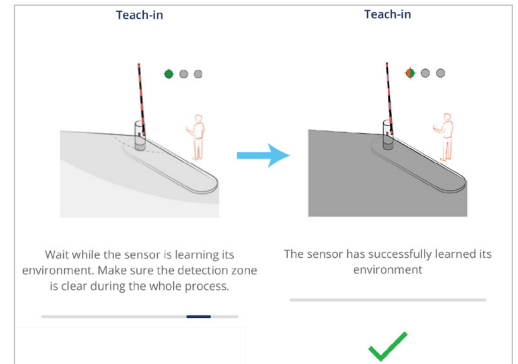
Before launching the environment teach-in, make sure the environment is clear of any objects, including yourself.



Launch the teach-in using the app or press the button 1x.
LED 1 will start blinking red-green.



Keep the barrier open before initiating the environment teach-in. The barrier, being a moving element, will be learned in the next step.



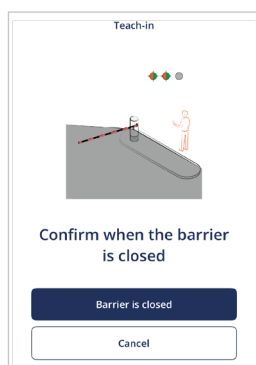
Wait for the sensor to learn its environment. Ensure that the detection zone is clear during the entire process.

BOOM TEACH-IN

The second step of setup is the boom teach-in. This teach-in allows the sensor to analyze and characterize the barrier's opening and closing movements. The sensor will automatically perform boom-closing and -opening teach-ins after the environment teach-in is complete.

IMPORTANT

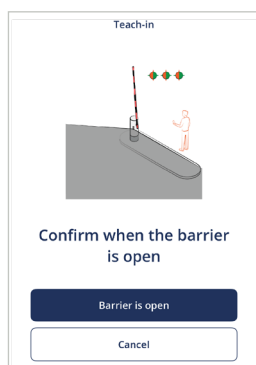
Before launching the boom teach-in, make sure the environment is clear of all moving objects (vehicles and pedestrians) other than the barrier arm itself.



The sensor deactivates its 3 outputs to allow the boom to close automatically. Once it is completely closed, click on "barrier is closed" (see image, right).

If the teach-in procedure has been launched by the button, the sensor deactivates its outputs for 20 seconds to signal the boom's closing.

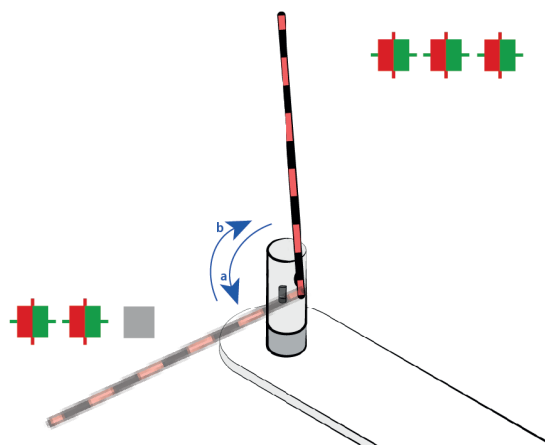
LEDs 1 and 2 will start blinking red-green.



The sensor reactivates its 3 outputs to allow the boom to open automatically. Once it is completely open, click on "barrier is open" (see image, right).

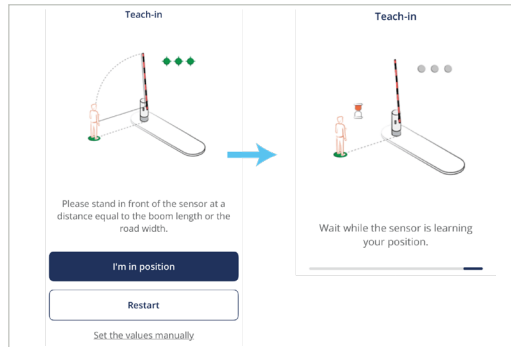
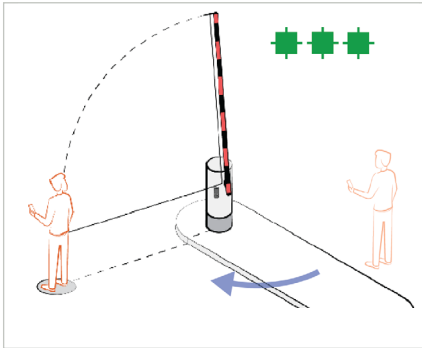
If the teach-in procedure has been launched by the button, the sensor reactivates its outputs for 20 seconds to signal the boom's opening.

LEDs 1 and 2 will start blinking red-green.



EDGE TEACH-IN

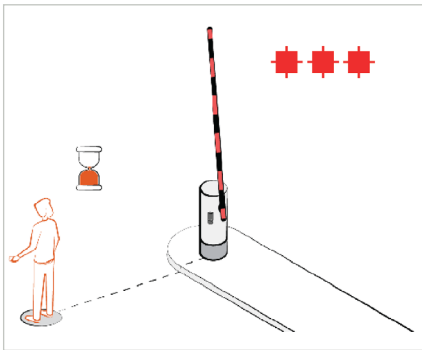
The final step of setup is the edge teach-in. This teach-in allows the sensor to reference itself within its environment based on the environment and boom teach-ins.



Once the boom teach-in is complete, the sensor will wait for you to indicate the length of the boom.

Stand in front of the sensor at a distance equal to the boom length or the road width.

The green LEDs will blink while learning.



FINISH

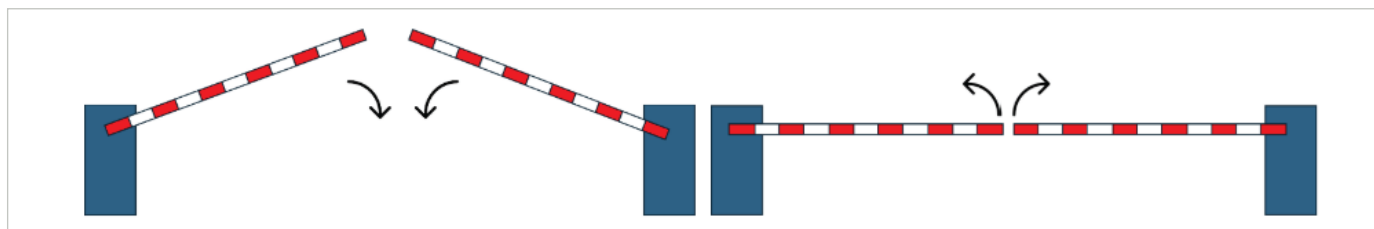
Stand still until the LEDs blink red, indicating that the sensor has locked your position and the process is completed successfully.

SPECIFIC APPLICATIONS

DOUBLE-SKIRT BARRIER ARM

EVOLoop can be used in an application with two barrier arms facing each other and will correctly filter the movement of each barrier.

For such an application, it is important to perform the boom teach-in correctly by carrying out the closing and opening movements on **both** barriers in accordance with the procedure (see Boom Teach-In section).

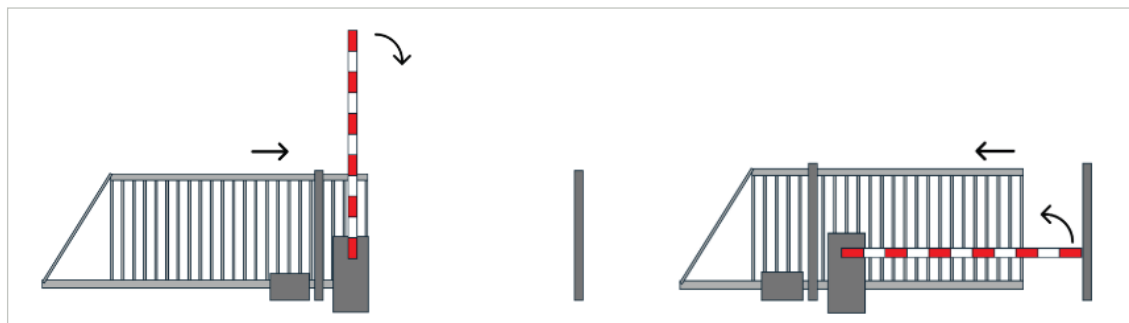


BARRIER + GATE

EVOLoop can also be used in an application with a barrier and a gate.

For such an application, it is important to perform the boom teach-in correctly by carrying out the closing and opening movements of **both the barrier and the gate** in accordance with the procedure (see Boom Teach-In section).

Generally, the gate's opening and closing movements are slower than those of the barrier. It is therefore important to wait for the gate to fully close and fully open before proceeding to the next steps.



BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

BEA, Inc., the sensor manufacturer, cannot be held responsible for incorrect installations or incorrect adjustments of the sensor/device; therefore, BEA, Inc. does not guarantee any use of the sensor/device outside of its intended purpose.

BEA, Inc. strongly recommends that installation and service technicians be AAADM-certified for pedestrian doors, IDA-certified for doors/gates, and factory-trained for the type of door/gate system.

Installers and service personnel are responsible for executing a risk assessment following each installation/service performed, ensuring that the sensor/device system performance is compliant with local, national, and international regulations, codes, and standards.

Once installation or service work is complete, a safety inspection of the door/gate shall be performed per the door/gate manufacturer's recommendations and/or per AAADM/ANSI/DASMA guidelines (where applicable) for best industry practices. Safety inspections must be performed during each service call – examples of these safety inspections can be found on an AAADM safety information label (e.g. ANSI/DASMA 102, ANSI/DASMA 107, UL294, UL325, and International Building Code).

Verify that all appropriate industry signage, warning labels, and placards are in place.



Tech Support: 1-800-407-4545 | Customer Service: 1-800-523-2462
General Tech Questions: techservices-us@BEAsensors.com | www.BEAsensors.com