APPLICATION NOTE

EVOLOOP PASSAGE CONTROL

The purpose of this Application Note is to define the procedure for installing EVOLOOP to optimize detection and operating behavior for paid parking systems or access control applications.

INSTALL MOBILE APP

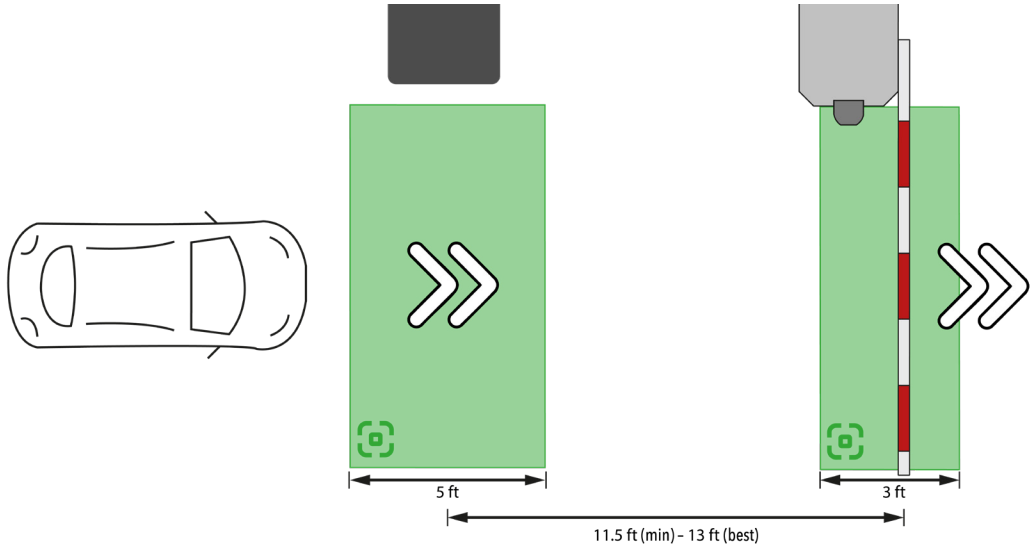
Scan the QR code or click on the app store logo open the following link to download the mobile app and install it.

NOTE: First-time pairing code is 456789.

PASSAGE CONTROL REQUIREMENTS

This application requires that EVOLOOP be installed with at least two loops:

- One loop to activate the payment terminal, license plate recognition system, or other connected components.
- A second loop to provide a closing signal once the vehicle has exited the area beneath the barrier and entered the perimeter.



HOW IT WORKS

To install EVOLOOP for passage control applications, loops must be configured in presence mode and utilize at least two loops. It is not achievable if a loop is configured for protection.

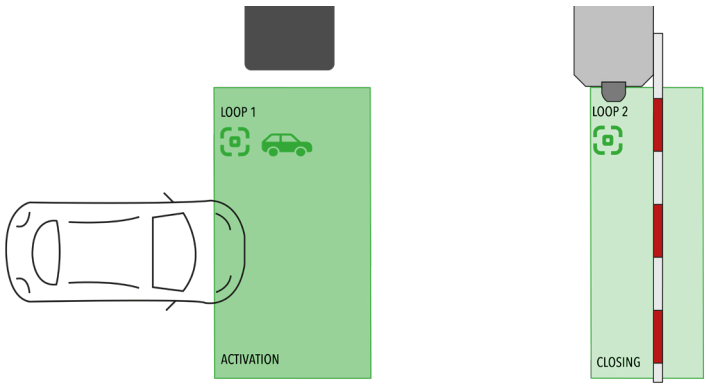
1 - ACTIVATION

First, an approaching target is detected by the activation loop.

The target must have the correct type and direction to trigger detection (see SETTINGS).

Once detected, it is identified as "passed on activation loop".

The detection signal can then be used to activate system components (e.g. a payment or ticket terminal, license plate recognition equipment, the barrier itself).



2 - DETECTION UNDER BARRIER

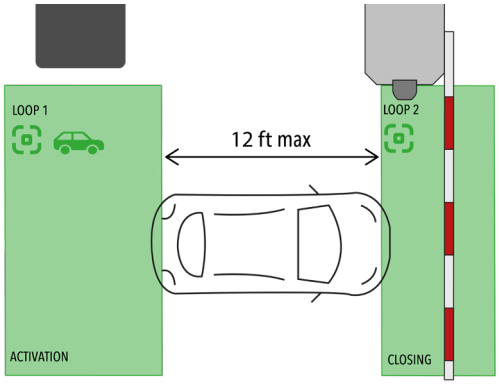
Next, the closing loop detects only those targets that were previously identified as "passed on activation loop".

Objects that do not meet the detection criteria on the activation loop are ignored.

This step ensures that only vehicles moving from the activation loop to the closing loop are detected.

The closing loop becomes active and detects the vehicle once it is positioned within it.

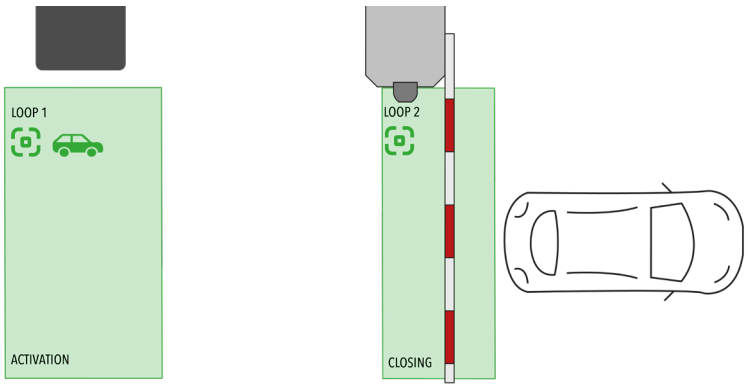
The detection signal can be used to keep the barrier open for as long as detection is maintained



3 - CLOSING

Finally, detection is released and a closing signal is sent to the system so that the barrier can close. If the vehicle returns to the closing

loop within two seconds, detection is reactivated; otherwise, the vehicle is considered to have exited and will not be detected again.

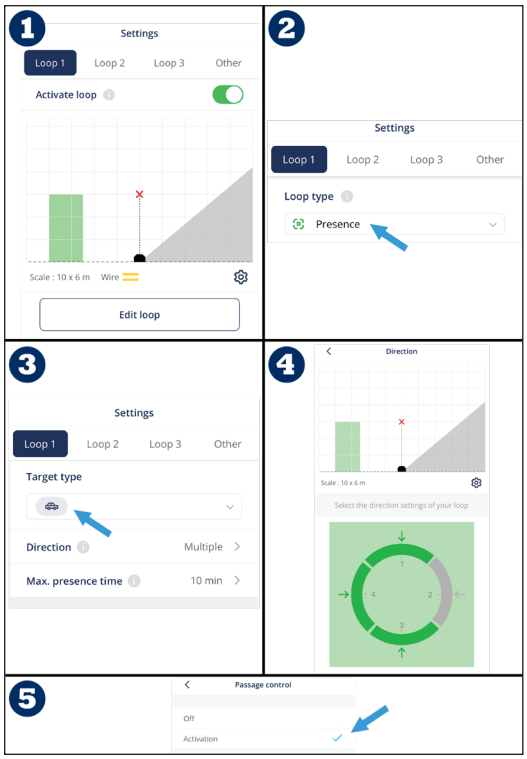


PASSAGE CONTROL SETTINGS

ACTIVATION LOOP

NOTE: Only loops 1 and 3 may be configured for activation.

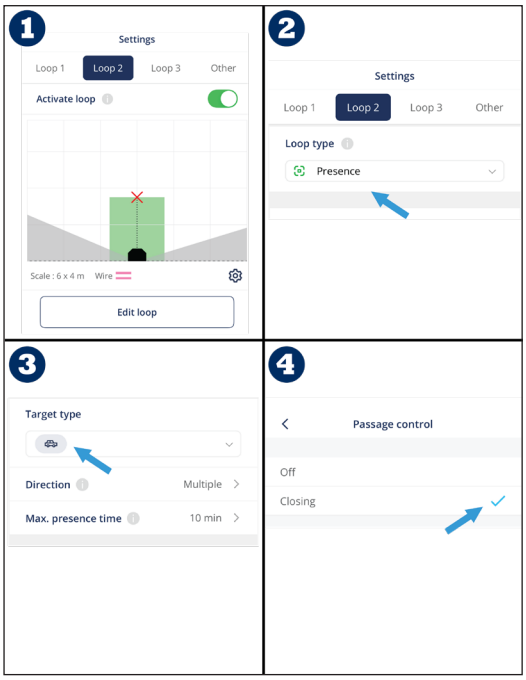
1. Set loop position and dimensions.
2. Set the loop type to Presence.
3. Set the target type to Vehicle.
4. Set the direction to Direction 4 or Direction 2.
5. Set passage control to Activation.



CLOSING LOOP

NOTE: Only loop 2 may be configured for closing.

1. Set loop position and dimensions.
2. Set the loop type to Presence.
3. Set the target type to Vehicle.
4. Set passage control to Closing.



PROTECTION MODE

Loop 3 may be used under the boom in protection mode to hold open as long as an object is underneath.

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.

AAADM ANSI DASMA IDA International Door Association

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