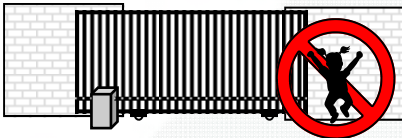


IMPORTANT USER INFORMATION:

Automatic gate systems provide user convenience and limit vehicular traffic. Because these systems can produce high levels of force, it is important that you are aware of the potential hazards associated with the system. Potential hazards may include pinch points, entrapment positions, lack of proper pedestrian access, blind spots for traffic visibility. It is the joint responsibility of the designer, purchaser, installer and end user to verify the system is properly configured for its intended use. Be sure the installer has instructed you on the proper operation of the gate system before use. Be sure the installer trains you about the basic functions of the required reversing devices associated with the gate system and how to properly test them. Reversing devices may include reverse loops, sensing edges, photoelectric cells, inherent reverse detection, and/or other external devices.

WARNING - To reduce the risk of injury or death:

1. A moving gate can cause serious injury or death. Read & follow all installation manuals, reference manuals, and warning label instructions.
2. Vehicular gates are for vehicles only. Pedestrians must use a separate entrance. Keep all pedestrian traffic away from any vehicular gate. No one should cross the path of a moving gate.
3. Never allow children to operate or play with gate controls. Never allow children to play in the area of a gate system.
4. Access control devices must be placed far enough from moving gates to prevent the user from coming in contact with the gate while operating the controls.
5. All activating devices must be installed in a clear line-of-sight with the gate and its travel and must be installed a minimum of 10 feet away from the gate.
6. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use.
7. Mount all operating devices clearly out of reach of through gates.
8. Loops and vehicle sensors are for vehicle use only and do not offer any type of pedestrian protection.
9. **DO NOT install this device unless all potential hazards and pinch points have been eliminated.**



DO NOT allow children to play near, on or with the gate, gate operator, or any of its controls.

RESTRICTIONS AND LIMITATIONS:

Please read and follow all restrictions and understand all limitations. Do not install this product if it exceeds any limitation or does not abide to all guidelines or restrictions.

1. This device is intended for vehicular traffic only. Keep all pedestrian traffic including bicycles away from any vehicular gate.
2. Do not use this product with motorcycles unless proper safety photo beams and safety edges are installed.
3. This product is a wireless device and subject to occasional communication failures. Therefore proper safety photo beams and safety edges must be used in conjunction to the system.
4. Detection distance and performance will vary based upon location of each application.
5. Average detection distance from the sensor is approximately 8ft wide x 4ft deep x 3-4ft high. In some occasions the distance may be less and in some occasions the distance may be more.
6. Detection range is similar to a rectangular bubble around the sensor.
7. This product is not recommended for applications with commercial trucks with high trailers due to the limited detection height.
8. This product is a wireless device and location of the AP100 Relay Board and each Sensor will have a significant effect on the performance. Try to locate the devices with as much line of sight as possible.
9. Large walls, steel fences, foliage, etc will hamper the radio signal range. Try to avoid such hazards.
10. The system should be checked on a regular basis by a trained and authorized installer.

IMPORTANT:

DO NOT PARK IN THE PATH OF THE GATE. This unit will automatically retune and reset after detecting for more than 14 minutes. This allows the gate to close on a vehicle.



No Pedestrians



No Children



No High Bed



No Bicycles

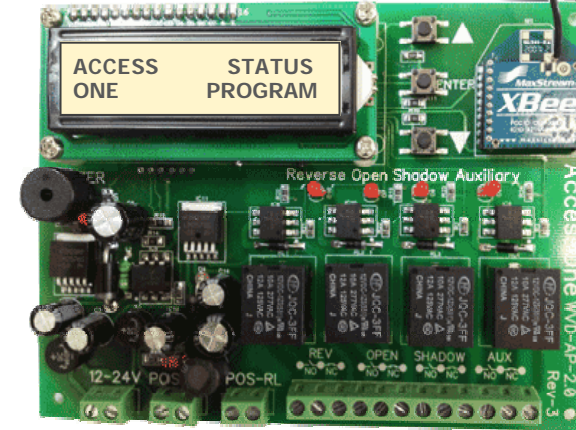


WVD100

Wireless Vehicle Detector

EZ Loop

- AP100 Relay Board
- S200 Sensor



For complete detailed instructions, Download the WVD100 Product Manual at www.accessonetechnologies.com

Quick Reference

- Installation Instructions
- Program Instructions

Read and follow all UL and Safety Standards before installing. Refer to the manual and qualified personnel for assistance. DO NOT install this device unless all entrapment and pinch points are eliminated.

OVERVIEW:

The EZ Loop is a wireless vehicle detector for vehicle use only. Each system can use one AP100 Access Point Relay Board mounted in the gate operator and up to ten S200 Sensors installed in the driveway.

Download the WVD100 Installation & Program Manual at www.AccessOneTechnologies.com

1. INSTALL THE AP100:

To install the AP100 Relay Board:

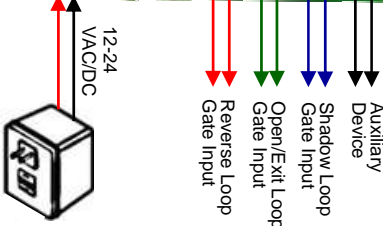
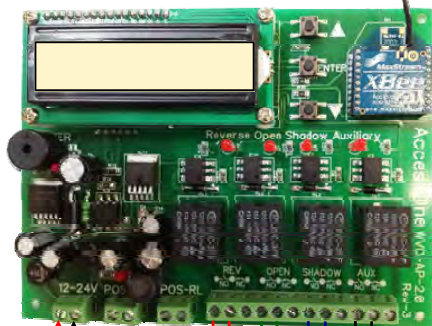
1. Mount the AP100 inside the gate operator or in a weather tight housing.
2. Mount the AP100 with a good line of sight to each sensor.
3. Use the plastic standoffs to mount the board. Do not allow the board to rest on the ground or any metal.



2. WIRING THE AP100:

The AP100 has four relays for multiple loop functions. Each relay has a NO, C, and NC output. Most gate operators use the NO and C outputs.

1. Connect 12-24 VAC/VDC to the Power Terminal.
2. Connect Relay 1 to the Reverse Loop input.
3. Connect Relay 2 to the Open/Exit Loop input.
4. Connect Relay 3 to the Shadow Loop input.
5. Connect Relay 4 to an auxiliary device.



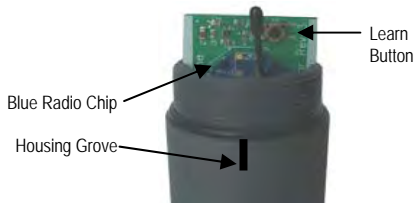
3. LEARN THE SENSOR:

To learn the sensor before installing into the ground:

1. Make sure the AP100 is installed and power is on.
2. Open the Sensor, remove the circuit board, and plug the battery on to the board.
3. Move the Sensor near the AP100
4. Enter the LEARN mode on the AP100 Relay board:
 - a. Select PROGRAM, press Enter
 - b. Select SENSOR, press Enter
 - c. Select LEARN, press Enter
 - d. AP100 is now in LEARN mode

SEARCHING
ENTER TO BACK

5. In LEARN mode, press the Sensor learn button
 - a. AP100 will see the sensor and display the SENSOR# EXISTS message
 - b. Note the Sensor number on each sensor as they will be setup in the programming steps.
6. Place the circuit board back into the Sensor housing with the blue radio chip facing forward, the same direction as the line on the housing.



4. PROGRAM RELAYS:

To program the relays to each sensor:

1. Program the relay function on the AP100:
 - a. Select PROGRAM, press Enter
 - b. Select SENSOR, press Enter
 - c. Select RELAY, press Enter
 - d. Select the Sensor to edit, press Enter
 - e. Select Relay for that sensor, press Enter
 - f. Select Relay Function, press Enter (**NORMAL** is the most common setting and will hold the relay while a vehicle is on the sensor, and drop the relay right after the vehicle leaves.)
 - g. Use Up, Down, Enter buttons to enter time of relay action for needed settings, press Enter

Relay 1 = Reverse	Relay 3 = Shadow
Relay 2 = Open	Relay 4 = Auxiliary

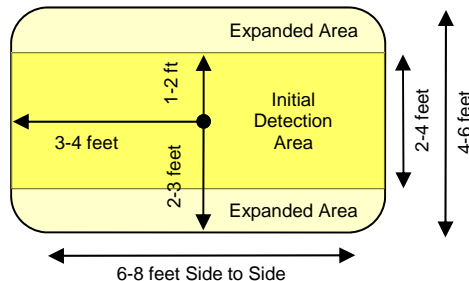
5. ACTIVATE & TEST THE SENSOR:

Activate and test the sensor next to the AP100 and antenna before installing the sensor to insure the sensor is working correctly. To activate the sensor:

1. Place the Sensor on the ground so it is close to the antenna and has a clear line of sight. Do not move the Sensor once it is Active.
2. Program the Sensor Active on the AP100:
 - a. Select PROGRAM, press Enter
 - b. Select SENSOR, press Enter
 - c. Select ACTIVE, press Enter
 - d. Select the Sensor to activate, press Enter
 - e. Select ACTIVE, press Enter
 - f. Hold the Enter button to exit programming
3. Without moving the sensor, test the sensor:
 - a. Do Not Move The Sensor or it will cause a locked on detect.
 - b. Place a cell phone or piece of metal right next to the sensor. The Sensor should detect.
 - c. Remove the cell phone or metal. The Sensor should drop detect.

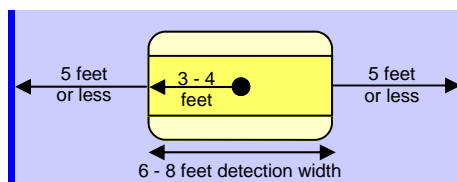
6. SELECT SENSOR LOCATION:

Detection range is similar to a rectangular bubble around the sensor. Average detection distance from the sensor is approximately 8ft wide x 4ft deep x 3-4ft high. In some occasions the distance may be less and in some occasions the distance may more. A simple above ground test can help define the distance.



To layout a standard gate application:

1. Place the sensor in the center of the traffic lane.
2. Determine if one or multiple sensors will be needed for full detection across a wide traffic lane.

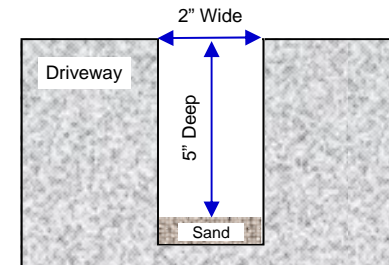


3. When a sensor is placed on the side of the driveway, make sure it reaches far enough into the lane to detect a vehicle.
4. Place the sensor far enough away from the gate so the moving gate does not activate the sensor. This is usually **8-10 feet from the gate**.

7. DRILL SENSOR HOLE:

To prepare the Sensor hole for installation:

1. Drill a 2" wide hole 5" deep. (Tip: Use a Dry Diamond Core Bit to core drill the hole)
2. If the hole is more than 5" deep, add sand to make the sensor flush with the top of the driveway.



8. INSTALL THE SENSOR:

To install the Sensor in the driveway:

1. Close the Sensor housing tightly making sure the top has sealed against the O-rings.
2. Place the sensor in the hole with the line on the housing facing toward the gate and traffic lane.
3. Secure the housing in the driveway with a sealant. The Sensor needs to be secured enough that it does not turn when a vehicle drives over it.

9. RESET THE SENSOR ACTIVE:

If a Sensor is Active and then moved, it will detect and lock on detect until it is reset. It will automatically reset after 14 minutes or it can be reset by making it Active again. To reset the Sensor:

1. Program the Sensor Active on the AP100:
 - a. Select PROGRAM, press Enter
 - b. Select SENSOR, press Enter
 - c. Select ACTIVE, press Enter
 - d. Select the Sensor to activate, press Enter
 - e. Select ACTIVE, press Enter
 - f. Wait for the AP100 to go to LEARN
 - g. Hold the Enter button to exit programming
2. Wait up to 2 minutes for the sensor to reset:
 - a. When the Sensor is reset, it will drop detect and the relay should turn off.
3. If the sensor gets moved when sealing it, simply reset it again.