

Owner Installation Manual

4010 Prism Wall/Post Mounted Sign covering:

CAR COMING Sign 4010

VEHICLE EXITING Sign 4010

Custom Message Sign 4010



Last updated – Mar 2024
PassSigns.com
support@PassSigns.com
480-689-1993

Table of Contents

Solution	3
Description	3
How it operates	3
Applications	4
Specifications	5
CAR COMING Sign Specifications	5
Vehicle Exiting Sign Specifications	6
Triggers and Accessories for your Installation	7
Planning your installation	8
Common Cabling Examples	9
Mounting the device	11
Opening the Sign	12
Preparing and terminating the sign	13
Troubleshooting system	15
Device Maintenance.....	16

Solution

Warns pedestrians and street traffic of a vehicle exiting a parking facility with a Voice alert and flashing CAR COMING text.

Description

CAR COMING or VEHICLE EXITING Warning Sign is designed to warn pedestrians and street traffic of cars exiting parking garages and blind spots. It is wall or post mounted, 2-sided, and has a heavy-duty all-weather powdered coated enclosure. The CAR COMING or VEHICLE EXITING sign has a self-contained PSC Controller with audio module, nighttime audio cut-off timer, speaker, LEDs, and power supply. When a car is detected exiting by a sensor, such as a vehicle motion detector, that signal is sent to the Controller inside the sign. The Controller activates the system for the duration of the Activation Timer by flashing the CAR COMING text and voice alert, "Attention vehicle exiting."

How it operates

A TRIGGERING SENSOR detects a vehicle exiting a parking facility. It sends a signal to the PASS Controller (PSC) inside the System.

The PASS Controller (PSC) activates the system:

- Voice Alert—" Attention! Vehicles exiting watch for vehicles."

- Flashing text (2 sides) - CAR COMING

- Flashing amber signal

PASS Controller continues to activate the sign for 10 seconds (adjustable) or if a second vehicle activates the system it resets the 10 second timer.

Audio cut-off Timer - The PSC has a programmable audio cut-off timer to allow for the audio alert to be silenced at designated times (i.e. 8pm to 8am)

Applications

Primary Application

Vehicle Exiting Warning System – The CAR COMING Sign and VEHICLE EXITING signs are used to warn pedestrians and street traffic of cars exiting parking garages and blind spots.

Additional Applications:

- Parking garage exits to warn pedestrians on the sidewalk of a car exiting the facility.
- Behind shopping plazas to alert of exiting trucks and vehicles.
- Fire and Police vehicle garages
- Parking Lots: Car exiting warning signs can be placed near entrances or exits of parking lots to remind drivers to be cautious and watch for vehicles leaving the premises.
- Residential Areas: In residential neighborhoods, car exiting warning signs can be placed near driveways to alert drivers about the possibility of cars pulling out onto the road.
- Industrial Sites: Industrial areas often have large parking lots or loading zones where multiple vehicles are entering and exiting. Warning signs can help increase awareness and reduce the risk of accidents.
- School Zones: Car exiting warning signs near school zones can remind drivers to be vigilant for children and parents crossing the road or cars pulling out from parking areas.
- Shopping Centers and Malls: Similar to parking lots, warning signs near entrances and exits of shopping centers can help prevent collisions and promote safe driving practices.
- Office Complexes: Large office complexes with multiple buildings and parking areas can benefit from car exiting warning signs to improve safety for employees and visitors.
- Hospitals and Medical Facilities: Medical facilities often have busy parking lots with constant traffic flow. Warning signs can assist in minimizing the chances of accidents between cars entering and exiting.
- Events and Venues: During concerts, sports events, or other gatherings, car exiting warning signs can be placed strategically to remind drivers leaving the venue to be cautious and patient.
- Highway Rest Stops: Rest areas along highways can install car exiting warning signs to alert drivers to watch for vehicles merging onto the highway or exiting the rest stop.
- Construction Sites: Construction zones may have restricted access points or temporary driveways. Car exiting warning signs can help inform drivers about these areas and encourage caution.

Specifications

CAR COMING Sign Specifications

Part name: Car Coming Warning Sign 4010

Part#: CC4010VW2 (see Kits below)

Sides: 2-Sides – Car Coming

Mounting: Wall or Post mounted, 40" clearance under

Dimensions: 40"H x 10"W x 7"D (8" faces)

Material: 14AWG Aluminum, Weatherproof

Finish: Hammered copper textured powder coating

Power In: 100-240VAC, Other options available

Part numbers:

CC4010VW2-KIT	Primary sign with LEDs, PSC Intelligent controller, Audio module, Audio cut-off timer, Speaker, & Power supply
CC4010VW2-BASIC	Secondary sign, LEDs & Speaker only for exits wider than 25'.

Powder Coating example:



Vehicle Exiting Sign Specifications

Part name: Vehicle Exiting Warning Sign 4010

Part#: VE4010VW2 (see Kits below)

Sides: 2-Sides – Vehicle Exiting

Mounting: Wall or Post mounted, 40" clearance under

Dimensions: 40"H x 10"W x 7"D (8" faces)

Material: 14AWG Aluminum, Weatherproof

Finish: Hammered copper textured powder coating

Power In: 100-240VAC, Other options available

Part numbers:

VE4010VW2-KIT	Primary sign with LEDs, PSC Intelligent controller, Audio module, Audio cut-off timer, Speaker, & Power supply
VE4010VW2-BASIC	Secondary sign, LEDs & Speaker only for exits wider than 25'

Powder Coating example:



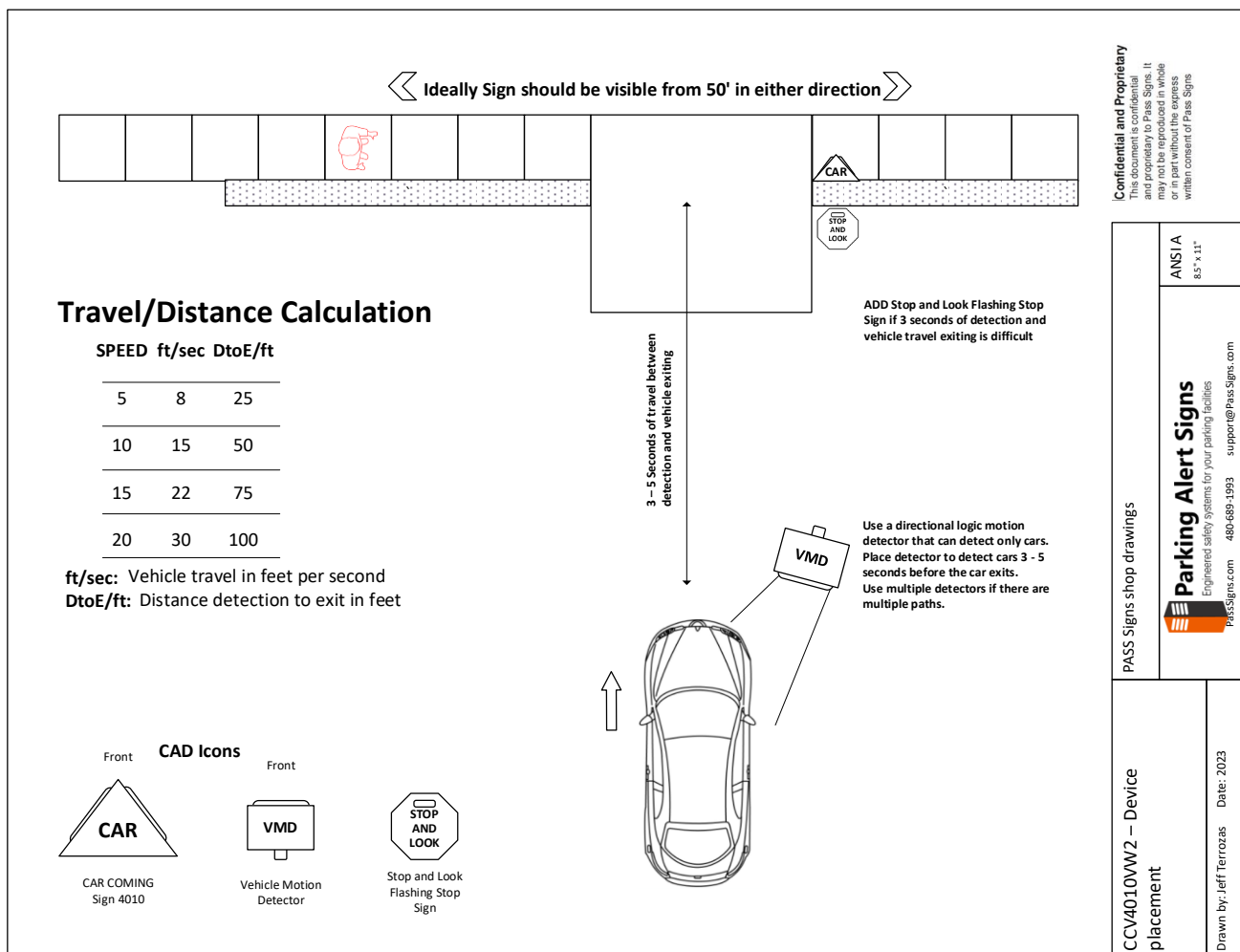
Triggers and Accessories for your Installation

 Easy installation	Flashing “STOP and LOOK” sign. Application: Used to stop exiting traffic before leaving the facility to prevent pedestrian accidents. This sign is controlled by the Primary Sign Controller and can be configured to flash 24/7 or only flash when a vehicle is detected exiting the facility. Part Numbers: SAL1212HW 12”x12” (most common small facilities) SAL1818HW 18”x18” (most common larger facilities) SAL2424HW 24”x24” (most common in high-speed or multiple lanes facilities)
 Easy installation	Directional-logic Vehicle Motion Detector (Most common sensor) Application: Intelligent motion detector used to detect vehicles exiting. This motion detector is used in areas where other vehicles and pedestrians may cause false alarms. This motion ONLY detects vehicles and ONLY detects vehicles approaching the motion. Range 26’x10’ Part Number: PS-VMD-DL
 Average installation	Narrow Beam Vehicle Motion Detector Application: Typically used above barrier gates or roll up doors. Only detects movement in a small area 6’ x 6’. This motion is not intelligent and will detect any motion in the detection area. Due to the limited range, it can often take more conduit to reach your detection zone. Part Number: PS-VMD-NB
 Costly install	Loop Detector Application: Typically, is the smartest of all sensors because it has the highest detection probability of detecting vehicles. However, this solution is best for new construction before concrete is poured. Loop detectors are easy to use and the quality is ideal. Part Number: PS-LD1
 72x4x4 Sign Post Ground Mount • 72” x 4” x 4” Pink Post/Black/Black	Free standing 72x4x4 Sign post Application: Used when wall space is limited or out of range of the sidewalk. This post is high quality strong steel and textured black powder coating to match the sign’s back plate. Part Number: PS-Post7204G
	Outdoor speaker, 30W Stainless steel Application: If additional volume is needed due to street traffic noise the outdoor speaker can boost the voice or audio warning. Part Number: PS-SpeakerOD

Planning your installation

Goals of your installation:

- 1) The Sign must be in a visible spot so that pedestrians and bicycles can see it from a distance of **5 seconds of traveling** (walking or riding) before they are in the danger zone of a vehicle pedestrian collision.
- 2) The Sign's Audio Alert must be audible so that pedestrians and bicycles can hear it from a distance of **5 seconds of traveling** (walking or riding) before they are in the danger zone of a vehicle pedestrian collision.
- 3) The Vehicle Detection sensor must allow the sign to activate for a minimum of 3 seconds before the car exits. This can be accomplished in different ways:
 - a. Placing the detection system far enough away to allow 3 seconds of vehicle travel before the vehicles exits.
 - b. If there are multiple pathways leading to a common exit, then multiple sensors can be used to detect cars.
 - c. Using a flashing STOP AND LOOK sign at the exit for drivers can provide a delay to stop the vehicle before exiting.



Common Cabling Examples

All cabling shown below assumes distances of 50' or less. If exceeding 50', use proper wiring as specified by your local codes and ordinances.

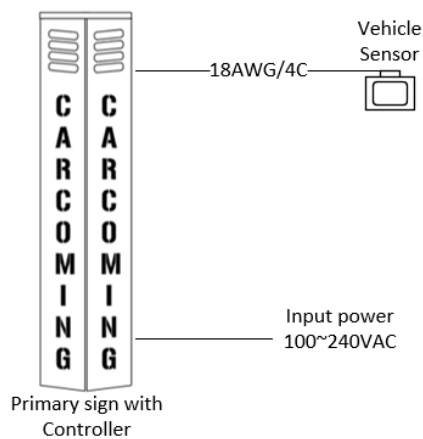
Important Notes:

Only the Primary sign needs AC voltage. All other devices receive their power from the primary sign.

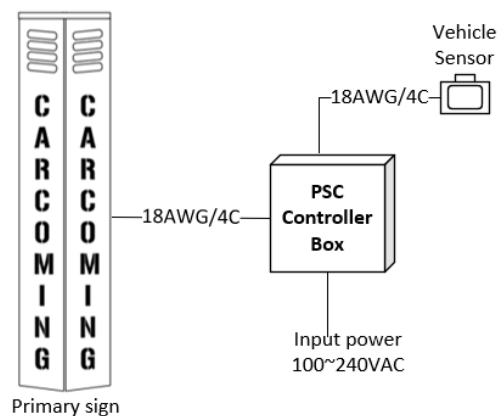
Low Voltage Installation – you may remove the Power Supply from the Primary Sign and install it elsewhere to make all cabling to the sign to be low voltage.

Input Power – If your installation requires a different input voltage (24VDC, 277VAC or other) let us know at ordering and we can provide the proper power supply for your installation.

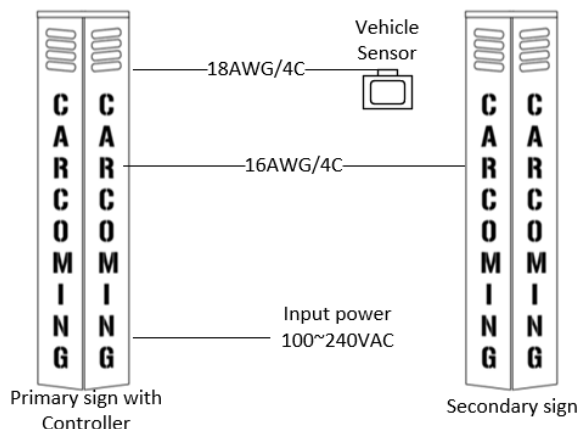
CC4010VW2-KIT common cabling for single sensor



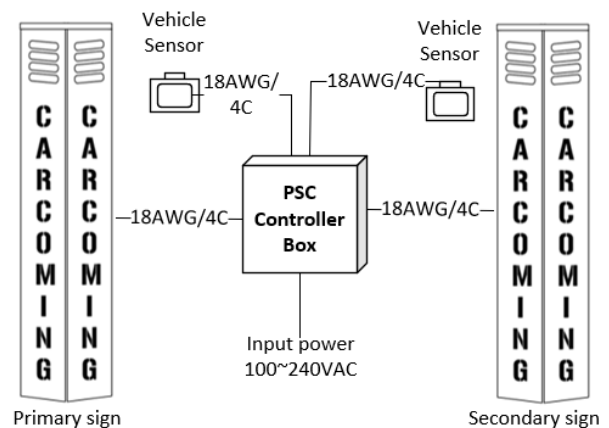
CC4010VW2-KIT common cabling for single sensor with accessible Central controller



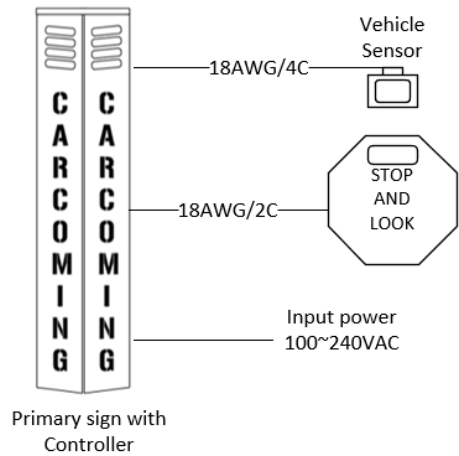
CC4010VW2-KIT Dual Sign for wide exits common cabling for single sensor



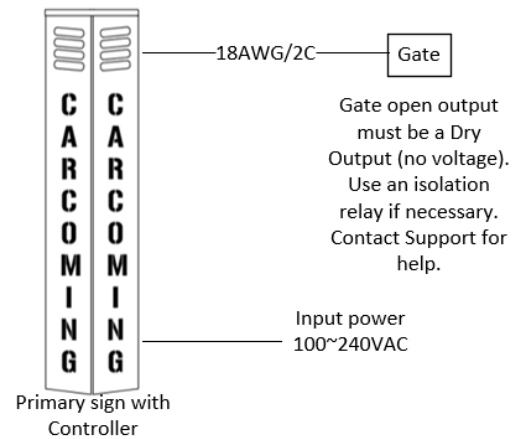
CC4010VW2-KIT Dual Sign for wide exits common cabling for dual sensor Central controller



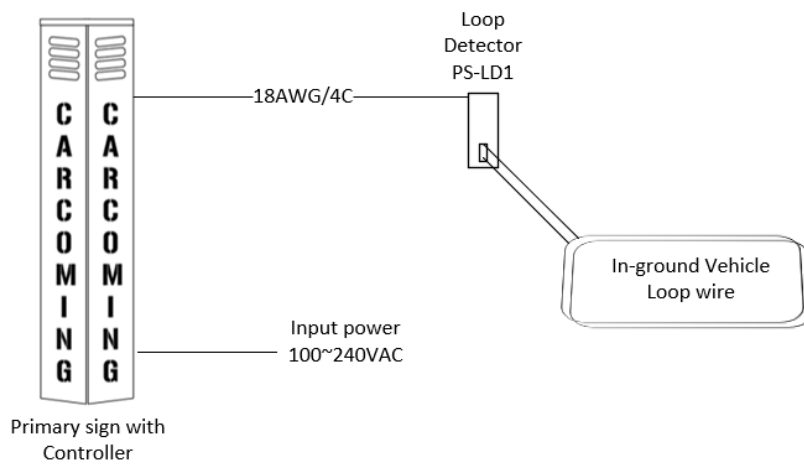
CC4010VW2-KIT common cabling for single sensor and flashing STOP Sign



CC4010VW2-KIT common cabling from GATE OPEN output from door or barrier gate

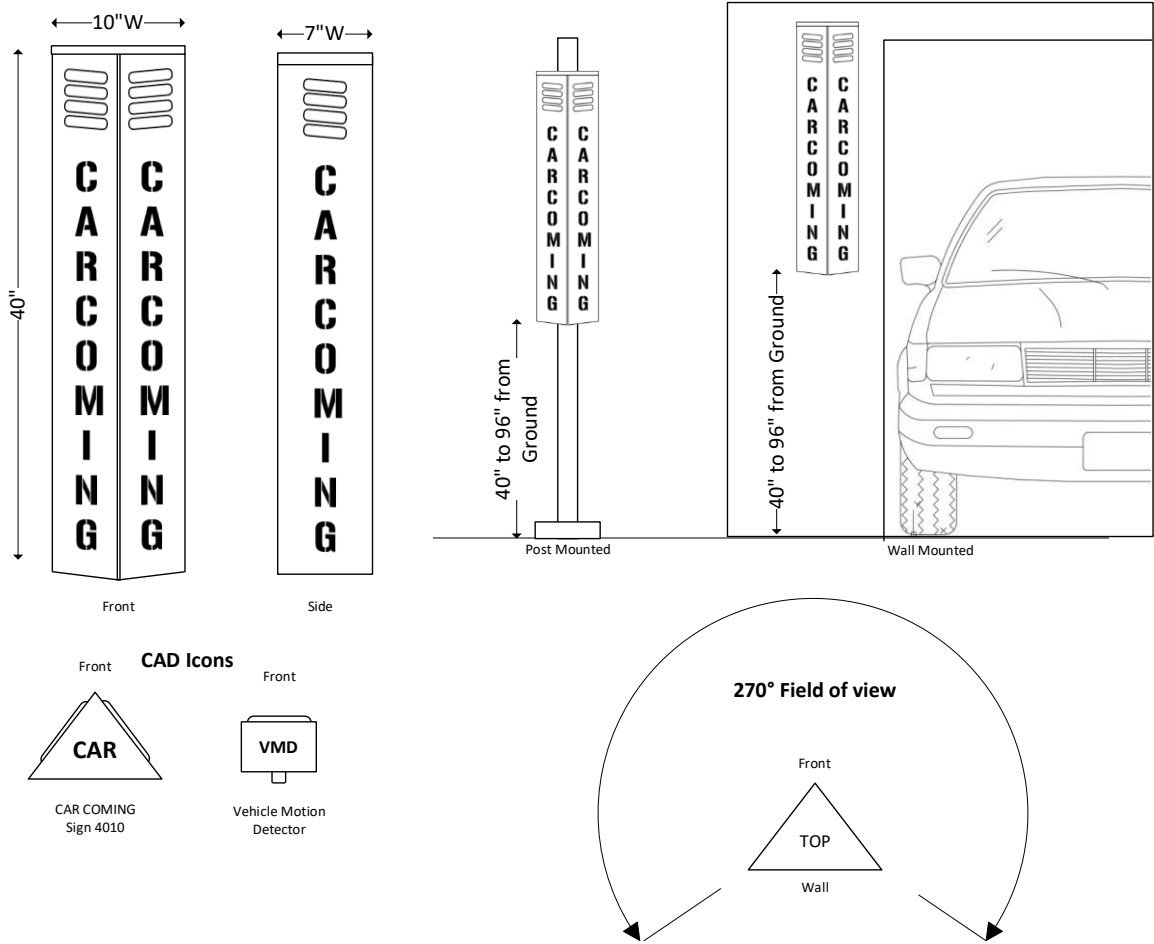


CC4010VW2-KIT common cabling for single sensor



Mounting the device

NOTE: 4010 Signs require a 40” clearance under the sign. If you do not have 40”, reach out to PASS and get alternate mounting brackets.

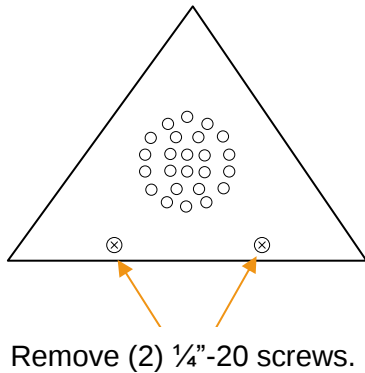


Confidential and Proprietary
This document is confidential and proprietary to PASS Signs. It may not be reproduced in whole or in part without the express written consent of PASS Signs.

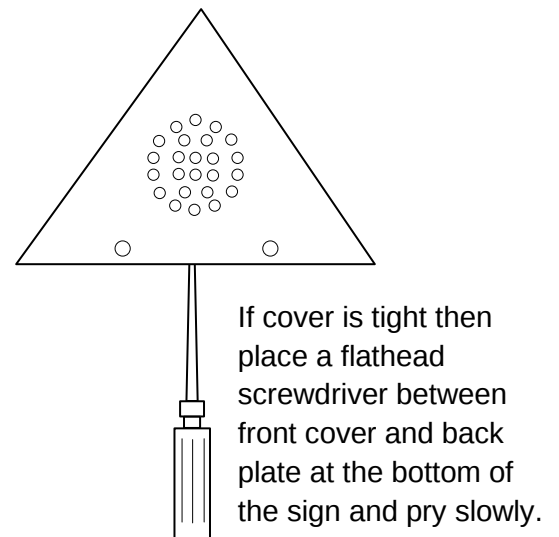
PASS Signs shop drawings	
Parking Alert Signs Engineered safety systems for your parking facilities PASSSigns.com 480-689-1993 support@passsigns.com	
ANSI A 8.5" x 11"	
CCV4010W2 – Dimensions and mounting	Drawn by: Jeff Terrozas Date: 2023

Opening the Sign

- 1) Place the sign on a scratch free surface such as the shipping box.
- 2) Remove the two bottom 1/4" – 20 stainless steel screws.
- 3) Slide front cover down over back plate, if cover is tight use a flathead screwdriver to slowly pry the cover down. Place screwdriver between back plate and cover at the bottom of the sign.

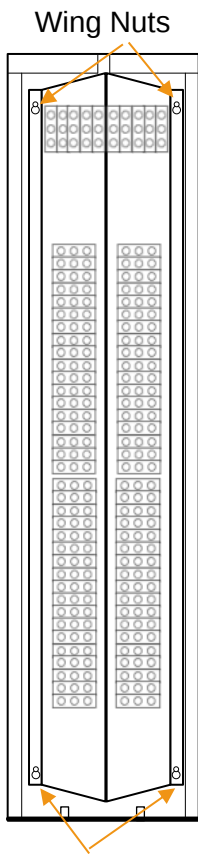


Slide front cover off back plate.

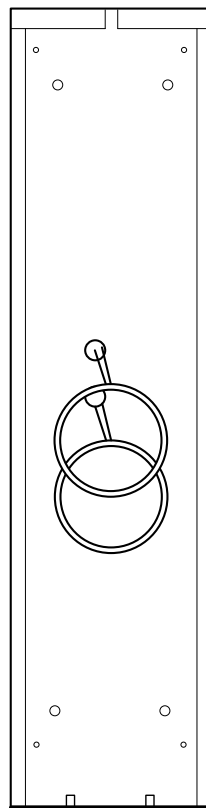


Preparing and terminating the sign

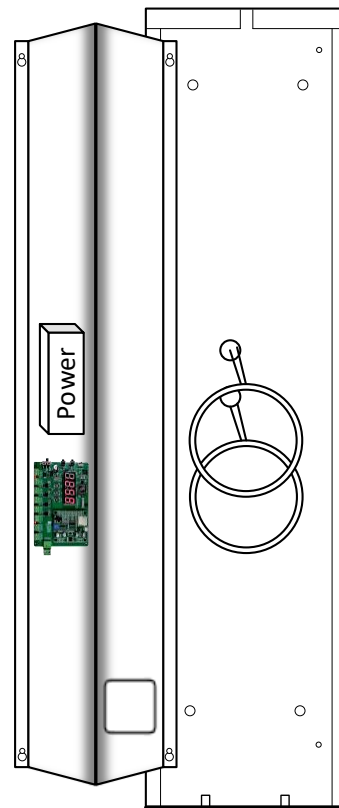
- 4) Remove the (4) Wing nuts holding the internal plate and place internal plate in a safe place.
- 5) Mount your back plate to the wall using (4) anchors and bring wire through.
KEEP ALL POWER OFF UNTIL ALL WIRES ARE VERIFIED AND TESTED. USE A MULTI-METER ON ALL WIRES BEFORE LANDING ON CONTROL BOARD TO VERIFY SOURCE. MISWIRED BOARDS WILL VOID WARRANTY.
- 6) Use the internal plate angle hinge and two Wing Nuts to allow you to hold the internal plate in place while wiring the Controller and Power Supply.
- 7) Test System, Program Controller (see Controller documentation), and set Volume.
- 8) Reverse steps 1-4 to assemble unit and return to service



Remove the (4) Wing Nuts on holding the internal plate to the back plate. Set the internal electronics plate in a safe area.

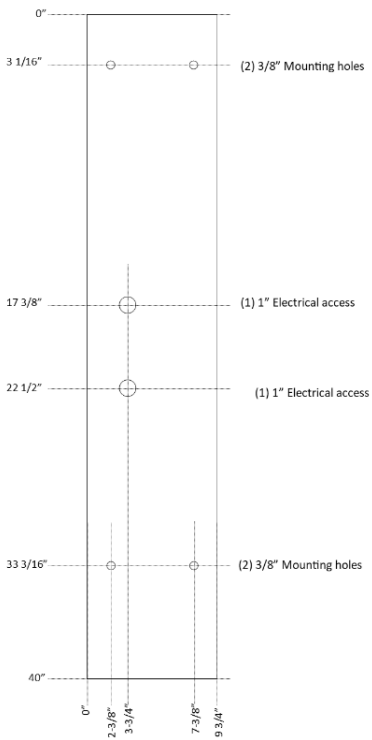


Mount your back plate to the wall using (4) anchors and bring wire through.

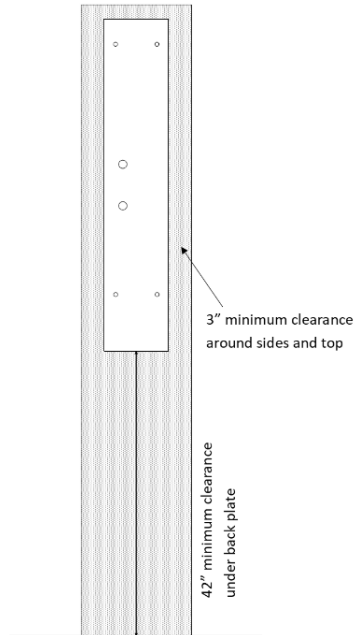


Use the internal plate angle hinge and two Wing Nuts to allow you to hold the internal plate in place while wiring the Controller and Power Supply.

Mounting and Electrical access locations



Mounting height and clearance



Recommended Anchors



Tapcon 1/4" x 2-1/2"
700lbs holding force per anchor
1-1/4" fender washers

CAR COMING 40"x 10" x 8" faces, Pedestrian Alert Safety Signs Mounting Information

©2019 by Jeff Terrozas
PassSigns.com



PASS Signs
Pedestrian Alert Safety Signs

Troubleshooting system

Q: There are no lights on the Control Board.

A: Power supply is not supplying 12VDC to the Control Board.

The RED LED power on the Control Board will light if Power is being supplied. Even if the power switch on the Control Board is off.

Use a multimeter to ensure that AC Voltage is powering the Power Supply.

Then check to ensure 12VDC power is being output from the Power Supply.

Double check the wiring connections throughout the power and Control Board.

If power is being supplied to the Power Supply but not outputting 12VDC then contact PASS Signs for a replacement Power Supply.

Q: When I power up the system the sign activates continually

A: The sign is receiving an Input Closure continuous on either Trigger 1 or Trigger 2.

Check that the mini slide switch for Testing on the Control Board is set to OFF. This mini slide switch is next to the test buttons

Check the Input lights for a GREEN Led on Input1 or Input 2. Remove wires from Input 1 and Input 2 and if the GREEN Led turn offs and the sign stops activating then your vehicle detector sensor could be wired improperly or the sensor could be stuck closed.

Q: The lights and lettering flash but I have no Voice or Audio

A: The volume is turned down or the speaker connection is loose

Turn the small blue dial on the Voice Module of the PASS Control Board

Check the speaker connections are tight on the PASS Control Board

Q: The sign activates when I push the Test Buttons, but the sensor is not activating the systems.

A: The sensor may not be landed on the proper inputs or may not have power

Check that the signal cable from the sensor is a DRY OUTPUT. No voltage should be sent from the sensor to the PASS Control Board. The PASS Controller uses a Normally Open output and activates on a Dry Closure.

Use a multi-meter on Continuity setting and test the cabling from the sensor is OPEN Line In normal state and shows Continuity when closed (0 Resistance).

Ensure the sensor is powered up.

Because of the numerous sensors that can be used it is impossible to address all issues in the document.

Contact Support@PassSigns.com for help.

Device Maintenance

Maintaining Enclosure Finish

To ensure the maximum extension of the product, the following maintenance is required:

Time Period	Action
Every 6 months Outer Enclosure cleaning	Wipe down the outer enclosure with soap and water to clean the powder coating. Remove the front enclosure and wipe down the inside and clean the back of the plastics to ensure maximum brightness through the plastics with soap and water. Using a sealant and protectant (example: Amor All) wipe down all the powder coated areas to avoid scale build up on the outer enclosure.
Every 1 year Inner Enclosure cleaning	Ensure bugs and spiders are not living inside the unit Wipe down the inside of the plastics to keep brightness Check for any signs of water penetration
Every 30 days Testing the unit	If the unit is not monitored daily by the end-user, ensure that a technician tests the system every 30 days for the following: - Audio volume - LED Brightness - Sensor sensitivity - Detection area - Activation Timer (typically 10 seconds) - Timing between detection of the vehicle and activation of the sign