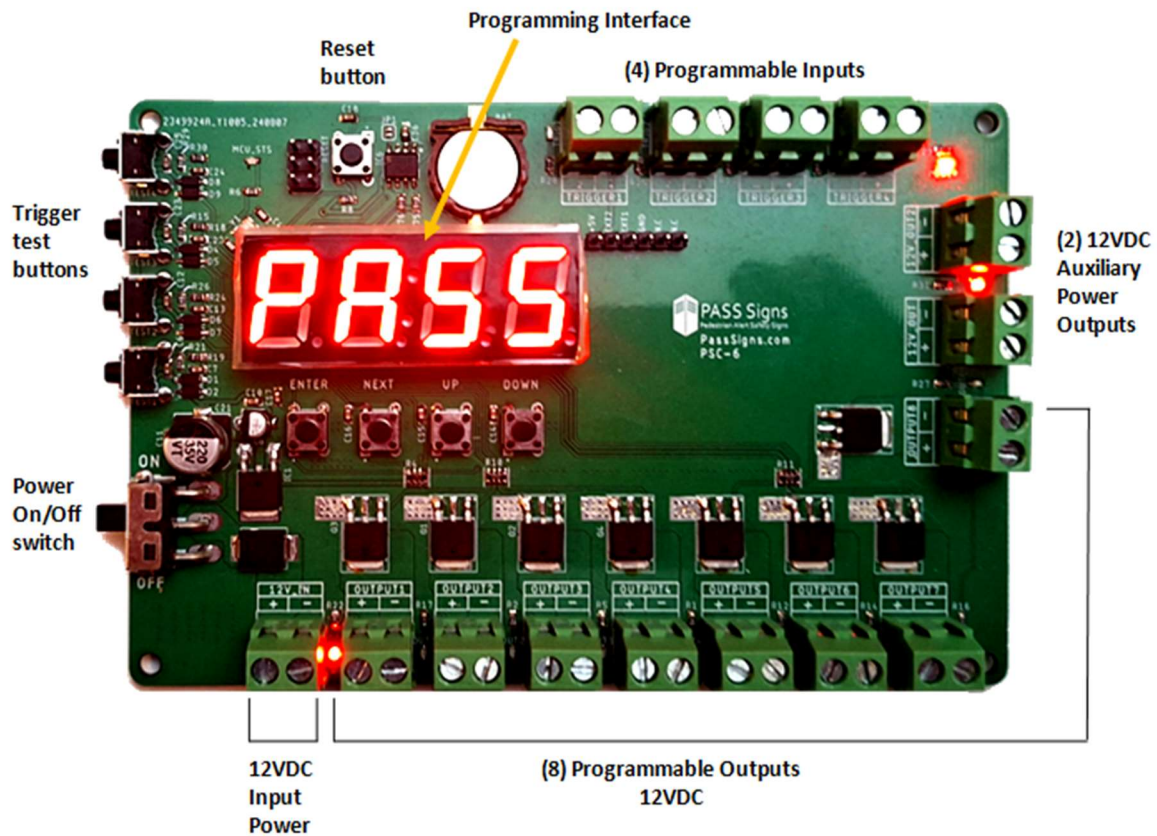


PSC-6 Wiring and Programming Guide

4-Way Traffic Control board

Board Layout

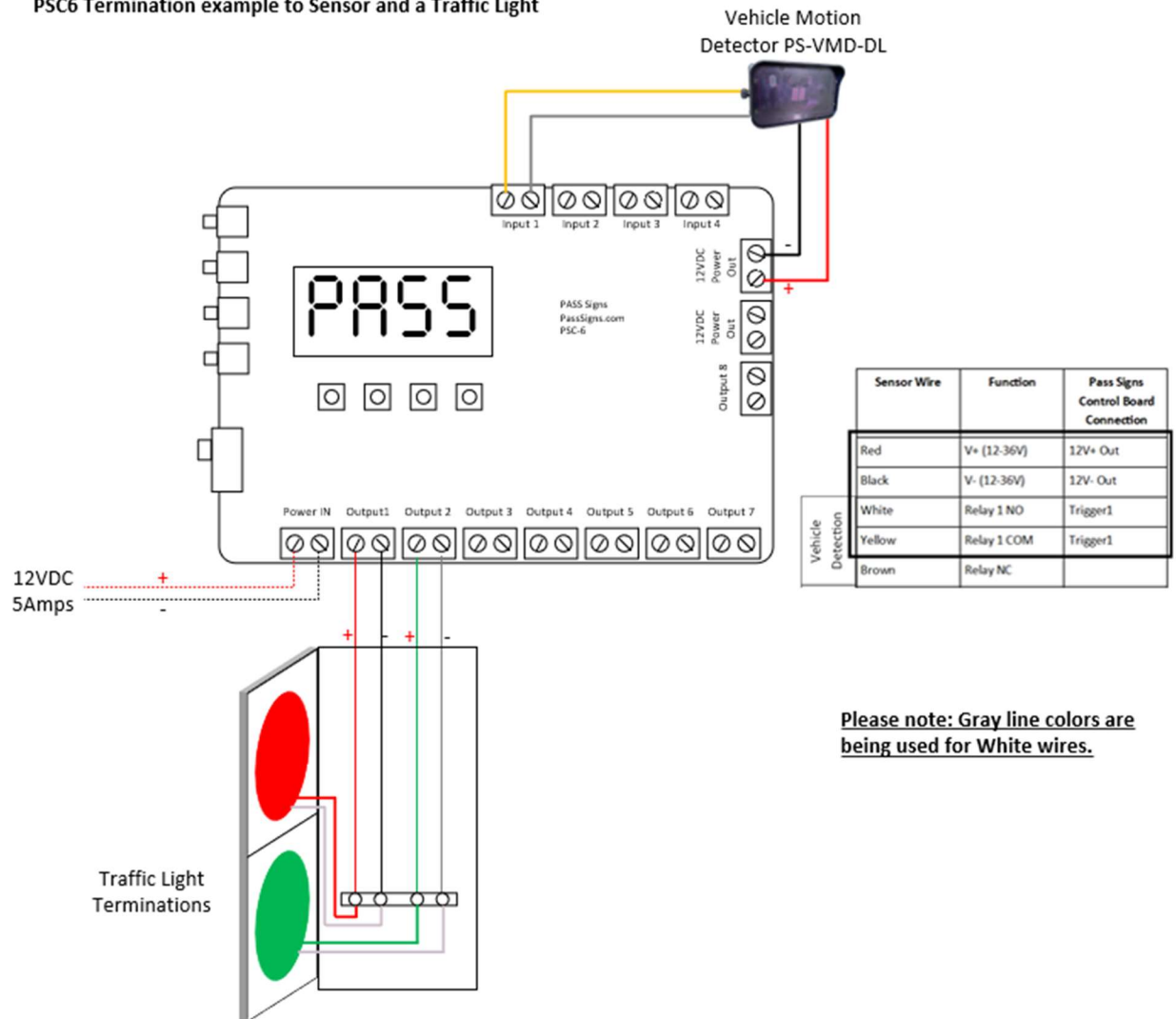


Quick Features

- (8) Timed 12VDC outputs programmed for either flashing or constant output
- (4) Dry inputs programmed to trigger from Normally Open or Normally Closed
- (2) 12VDC auxiliary output power for sensors
- 12VDC power Input

WIRING EXAMPLES OF INDIVIDUAL DEVICES

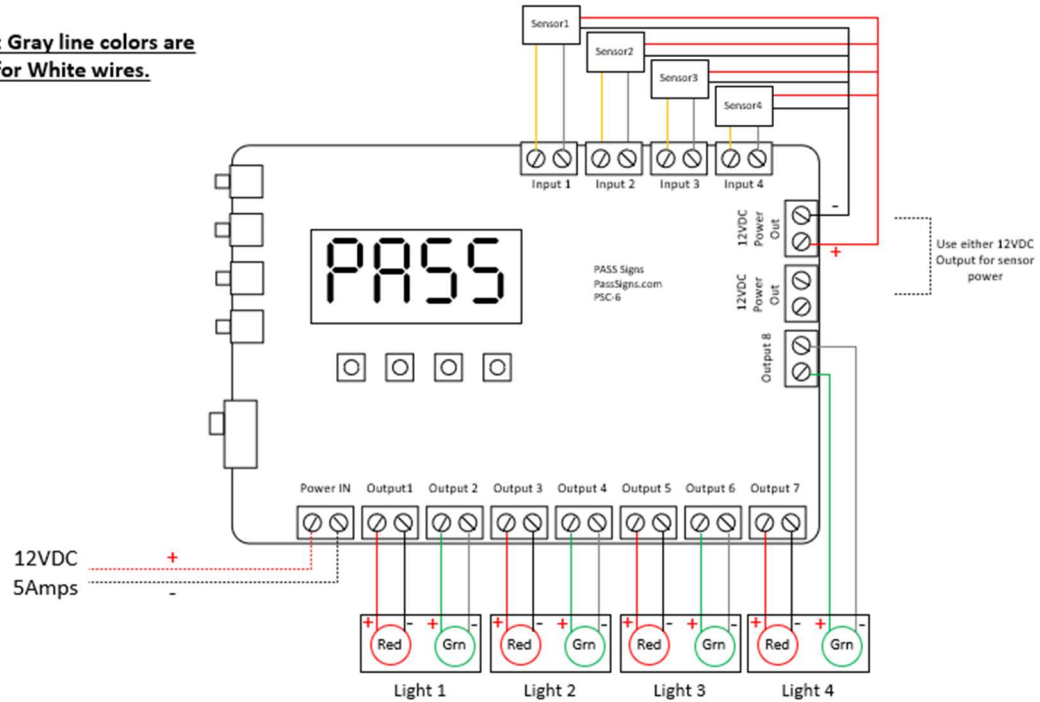
PSC6 Termination example to Sensor and a Traffic Light



WIRING EXAMPLES OF ALL DEVICES

PSC6 Termination example to Sensor and 4-way Traffic Light system

Please note: Gray line colors are being used for White wires.



	Red Light+	Red Light-	Green Light+	Green Light-
Traffic Light 1	Output 1 +	Output 1 -	Output 2 +	Output 2 -
Traffic Light 2	Output 3 +	Output 3 -	Output 4 +	Output 4 -
Traffic Light 3	Output 5 +	Output 5 -	Output 6 +	Output 6 -
Traffic Light 4	Output 7 +	Output 7 -	Output 8 +	Output 8 -

	Power +	Power -	Output Trigger 2-wires
Sensor 1	12VDC + Out	12VDC - Out	Input 1
Sensor 2	12VDC + Out	12VDC - Out	Input 2
Sensor 3	12VDC + Out	12VDC - Out	Input 3
Sensor 4	12VDC + Out	12VDC - Out	Input 4

Purpose of the Board

The PSC-6 4-way Traffic Control board is used in the controlling and activation of traffic lights, signs, and options audio for parking facilities. The system takes inputs from sensors such as motion detectors, push buttons, gates, loop detectors, and other vehicle detection systems, and activates Lights and Audio to warn pedestrians and other vehicles of dangers.

Application Examples:

- Truck yards with tight turns
- Tight driveway parking ramps
- 4-way intersections within parking facilities
- 3-way intersections within parking facilities
- 2-way intersections within parking facilities
- Pedestrian crossing warning systems

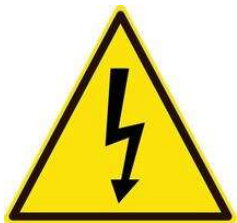
Power ON/OFF switch

Input Power – 12VDC / 5A minimum

Outputs – 12VDC / 500mA each with a total of 4A combined. Each output is programmable for FLASH or CONSTANT output when the board is activated.

Aux Power – 12VDC / 1A max. Power for motion detectors, loop detectors and other detection devices.

Trigger Inputs – DRY INPUTS ONLY. Do not apply voltage to the Trigger Inputs, you will damage the board and void warranty. This input needs 500ms or longer to provide a trigger.



CAUTION THIS IS AN ELECTRICAL APPLIANCE
AND SHOULD ONLY BE WORKED WITH BY AN
EXPERIENCED TECHNICIAN.

INCORRECT WIRING CAN CAUSE BODILY HARM,
EQUIPMENT DAMAGE, AND VOIDED
WARRANTY.

PSC-6 Programming Guide

PSC-6 is a programmable controller

*****BATTERY MUST BE IN PLACE TO HOLD PROGRAMMED TIMES *****

Board Start Up:

4-Digit Display will display PASS for 3 seconds then the display goes blank.

The board comes with DEFAULT settings (see Program Steps Chart)

Entering PROGRAM MODE:

Press and hold the ENTER and NEXT button for 3 seconds to enter Program Mode. A P001 will display on the display.

Pressing the ENTER button will enter you into Program Step P001

Pressing the NEXT button will continue you into Program Step P002

Not pressing any button after 30 seconds will exit you from Program Mode

Exiting PROGRAM MODE:

To exit Program Mode, press and hold the DOWN button for 3 seconds.

Or Program Mode will exit after 30 seconds without any buttons pressed.

Programming a Program Step

Cycle through the Program Steps using the UP and DOWN buttons

Enter a Program Step by pressing ENTER button

Cycle through options using the UP and DOWN buttons

Setting Time: To move to the right use the NEXT button to select each digit. Do not hit ENTER until all digits are set.

When your complete press the ENTER button to save your selection.

QUICK PROGRAMMING

Program Steps	
P001 – Input 1 – Activation Timer P002 – Input 2 – Activation Timer P003 – Input 3 – Activation Timer P004 – Input 4 – Activation Timer	Activation Time when Input is triggered in seconds Default = 005
P005 – Open Close	How do the Input Triggers activate? With an open or a closure? Open – Open signal activates inputs Close – Closed signal activates inputs
P007 – Output 1 – Flash or Constant P008 – Output 2 – Flash or Constant P009 – Output 3 – Flash or Constant P010 – Output 4 – Flash or Constant P011 – Output 5 – Flash or Constant P012 – Output 6 – Flash or Constant P013 – Output 7 – Flash or Constant P014 – Output 8 – Flash or Constant	Will this output flash or be a constant On when activated.
P015 – Operations	0000 – All REDs operations 0001 – All GREEN operations

Defaulting board

To DEFAULT board settings remove 12VDC power and the battery OR press and hold UP and DOWN for 10 seconds. The board will flash PASS and show 0000 for the current time.

Detailed Programming Guide:

P001 thru P004 – Activation Timer for Inputs 1 thru 4

This IMPORTANT setting is used to determine how long the system is Activated when the corresponding input is triggered.

Minimum is 05 seconds – Maximum is 30 seconds

Typical times determine how long the vehicle transaction occurs.

DEFAULT: 5 seconds

P005 – Trigger Inputs activate on Open or Close

The system can be configured to Activate on either a Closing of the Trigger or an Opening of the Trigger.

CLOSE (or Normally Open) – Activates on Closing of the circuit. This is the most common trigger type and is typical of motion detectors, beam detectors, and vehicle loop detectors.

OPEN (or Normally Closed) – Activates on Opening of the circuit. Typically, not used because the board will immediately start Activating if nothing is connected to that Trigger. Where you can use this is with a Normally Closed Magnetic Contact for a roll-up door that outputs a closed circuit when the door is closed.

DEFAULT: CLSE

P006 – Activation Timer Restart on 2nd Vehicle

This IMPORTANT setting determines if the system will restart the Activation Timer (P006) if the system is Triggered additional times. EXAMPLE: A vehicle is detected exiting a parking facility and triggers the Vehicle Exiting System for 15 seconds. If another vehicle is leaving during this time, the Activation Timer will return to 15 seconds.

DEFAULT: NO

P007 thru P014 – Flash or Constant Steady output

P007 – Output 1 Type

P008 – Output 2 Type

P009 – Output 3 Type

P010 – Output 4 Type

P011 – Output 5 Type

P012 – Output 6 Type

P013 – Output 7 Type

P014 – Output 8 Type

The system can be configured for the Output to either Flash or be Constant.

Flashing -1 second ON, ½ second OFF.

Constant – the Output does not flash and is constant when activated.

DEFAULT: Constant

P015 – Operations

Red Operations: 0000

When a vehicle is detected at the intersection, all traffic lights initially remain red. The system then activates a green light for the detected vehicle's direction for a designated Activation Time, while all other directions stay red.

If another vehicle is detected from a different direction during the Activation Time, it is added to a queue. Once the Activation Timer expires, the system switches to the queued lane. If a second vehicle is detected from the original direction during the Activation Time, the timer restarts, allowing the second vehicle to clear before switching lanes.

All Green Operations: 0001

The system begins with all traffic lights green. When a vehicle is detected in one direction, the system turns all other directions red and activates a green light for the detected vehicle's direction for a designated Activation Time. If another vehicle is detected from a different direction during the Activation Time, it is added to a queue. Once the Activation Timer expires, the system switches to the queued lane. If a second vehicle is detected from the original direction during the Activation Time, the timer restarts, allowing the second vehicle to clear before switching lanes.