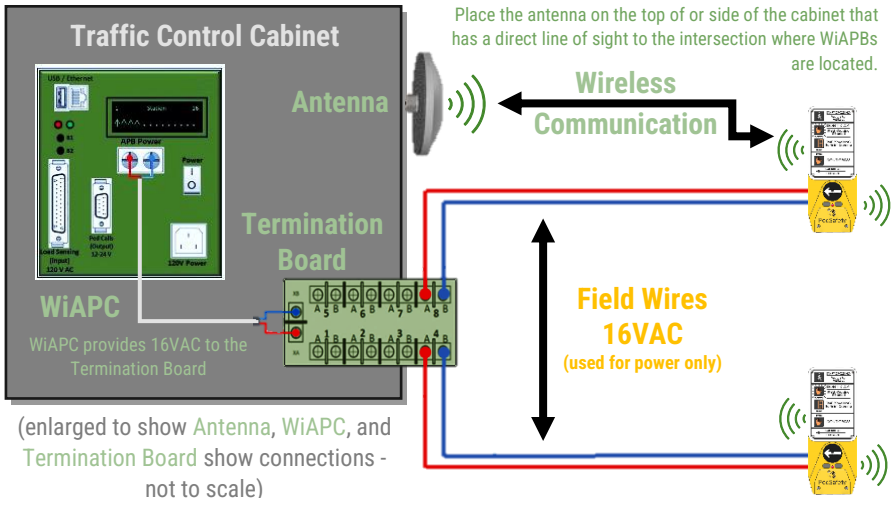
WiAAPS & WiAAPS Wave
Wiring Quick Guide

PedSafety

SCAN ME:
User Manual
Installation Manual

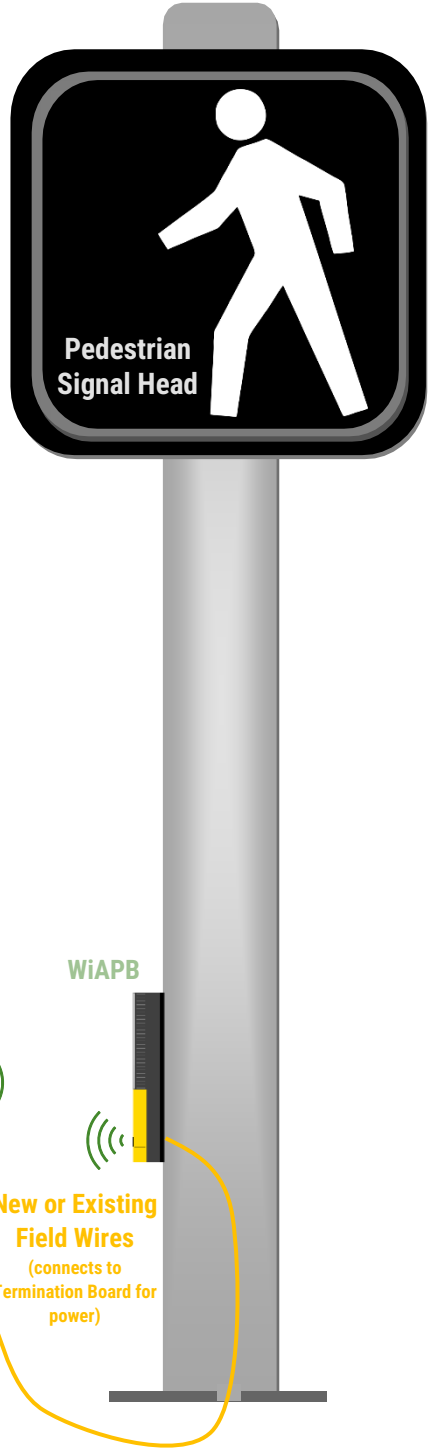
Using WiAPC and Termination Board to Provide Power to WiAPBs



(enlarged to show Antenna, WiAPC, and Termination Board show connections - not to scale)

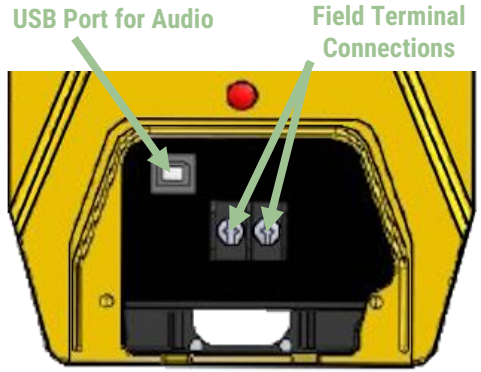
Traffic Control Cabinet (WiAPC/Termination board powers WiAPBs from inside the cabinet)

- ✓ **WiAPC** places calls to the **traffic control cabinet**.
  - 9-pin cable needs to be installed from the **WiAPC** to the terminals of the PED CALLS in the cabinet (9-pin cable included).
- ✓ Utilizes the existing or new **field wires** from **cabinet** to **WiAPBs** (for power only).
  - Connect the **field wires** from the **cabinet** to the **Termination Board**.
- ✓ **Termination Board:** It is recommended to use termination board slot #1 for **WiAPB** "1", slot #2 for **WiAPB** "2", and so on for all the **WiAPBs**.



WiAPB & WiAPB Wave
(warranty void if the WiAPB is installed upside down)

WiAPB Base Station (enlarged view of the terminal block on the front)



WiAPB wiring connections: 12VDC or 16VAC (NOT polarity dependent)

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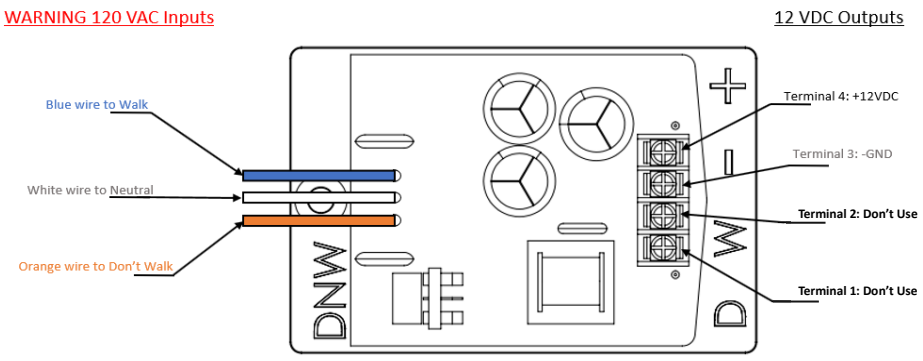
Using SPI in the Pedestrian Signal Head to Provide Power to WiAPBs

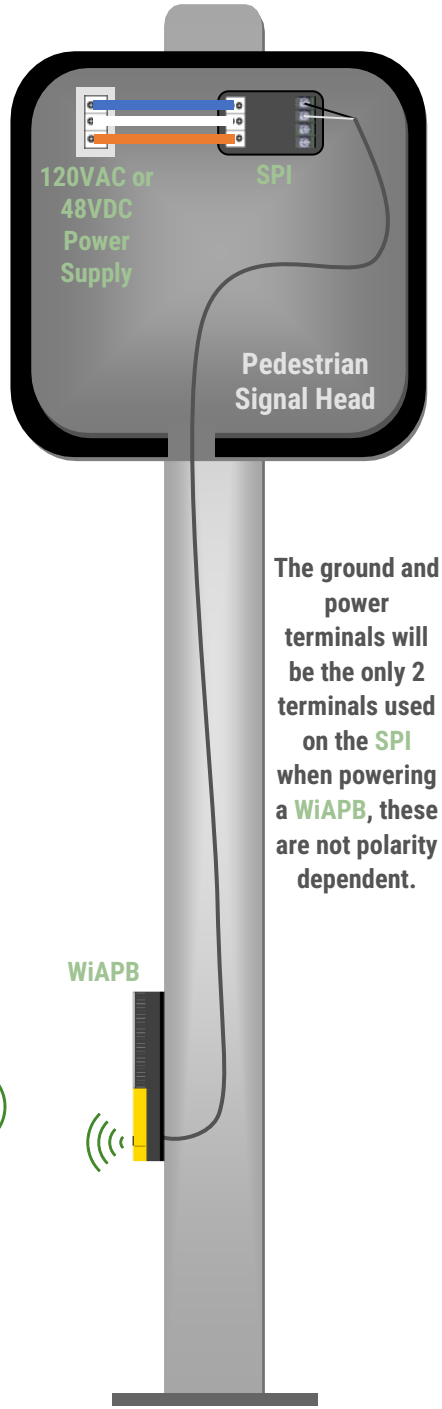


DO NOT set the SPI on the bottom of the pedestrian signal head! Terminals of the SPI must be connected to the same terminals on the base station.

Note: 48VDC intersections require a different SPI than 120VAC intersections.

Traffic Control Cabinet (no field wires required to power the WiAPBs)

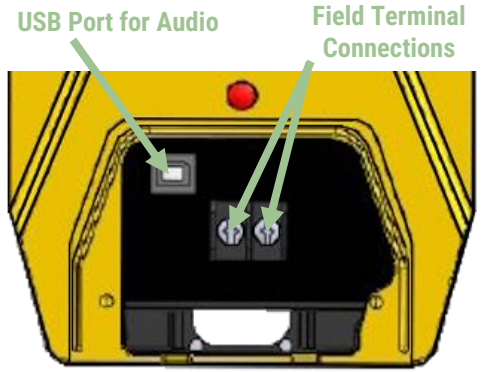
- ✓ Mount the Antenna on the exterior of the cabinet pointed towards WiAPBs in the intersection.
- ✓ WiAPC places calls to the traffic control cabinet.
  - 9-pin cable needs to be installed from the WiAPC to the terminals of the PED CALLS in the cabinet (9-pin cable included).
  - 25-pin cable needs to be installed from the WiAPC to the ped head outputs in the cabinet.
- ✓ For cabinets with limited shelf space a WiAPC rack can be ordered separately and installed to mount the WiAPC to an interior wall.



The ground and power terminals will be the only 2 terminals used on the SPI when powering a WiAPB, these are not polarity dependent.

WiAPB & WiAPB Wave
(warranty void if the WiAPB is installed upside down)

WiAPB Base Station (enlarged view of the terminal block on the front)



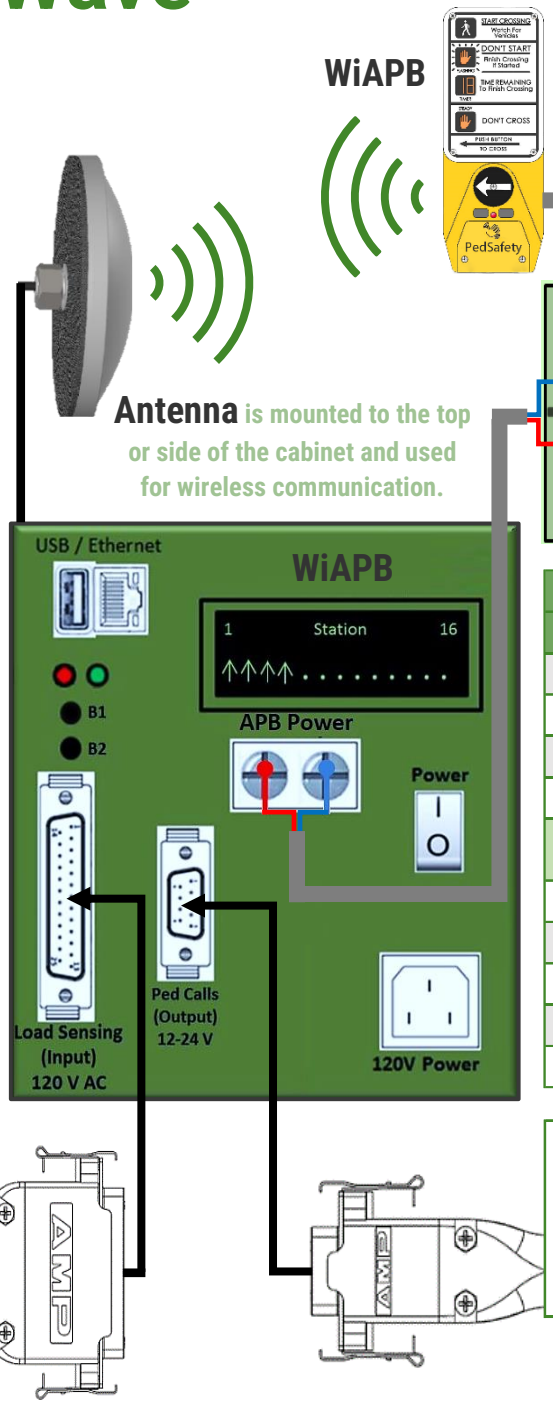
WiAPB wiring connections: 12VDC or 16VDC (NOT polarity dependent)

WiAAPS & WiAAPS Wave

Cabinet Wiring

PedSafety

DB25 APC Input Cable (120 Volts)						Φ PED
Label	Pin	Color				
Neutral	1	Blue/White Stripe	White		16 AWG	120V Neutral
	14	White/Black Stripe				
W 8	3	White/Red Stripe			22 AWG	W Φ8
W 7	16	Orange/Black Stripe			22 AWG	W Φ7
W 6	4	Green/Black Stripe			22 AWG	W Φ6
W 5	17	Blue/Black Stripe			22 AWG	W Φ5
W 4	5	Red/Green Stripe			22 AWG	W Φ4
W 3	18	Green			22 AWG	W Φ3
W 2	6	Blue/Red Stripe			22 AWG	W Φ2
W 1	19	Red/White Stripe			22 AWG	W Φ1
DW 8	7	Orange/Red Stripe			22 AWG	DW Φ8
DW 7	20	Red			22 AWG	DW Φ7
DW 6	8	Red/Black Stripe			22 AWG	DW Φ6
DW 5	21	Black/White Stripe			22 AWG	DW Φ5
DW 4	9	White			22 AWG	DW Φ4
DW 3	22	Blue			22 AWG	DW Φ3
DW 2	10	Black			22 AWG	DW Φ2
DW 1	23	Green/White Stripe			22 AWG	DW Φ1



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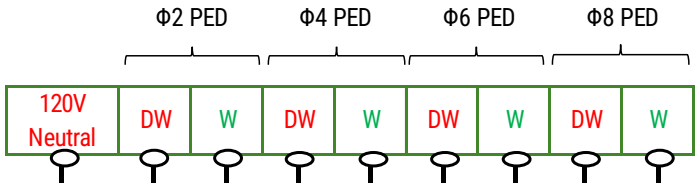
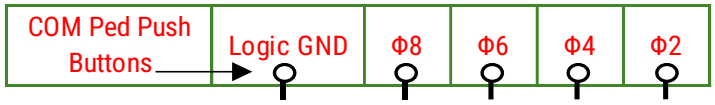
Some cabinets require a Jumper to be installed between the Grounds on the terminals of the ped calls (contact tech support if you require more assistance).

DB9 APC Output Cable					Alternate Color	Φ PED Call
Label	Pin	Color				
PH 1	1	Orange/Black Stripe		22 AWG	Orange	Φ1
PH 3	2	Red		22 AWG	Red	Φ3
PH 5	3	White		22 AWG	White	Φ5
PH 7	4	Black		22 AWG	Black	Φ7
COM	5	Green		22 AWG	Green	COM Ped Push Button
PH 2	6	Green/Black Stripe		22 AWG	Brown	Φ2
PH 4	7	Red/Black Stripe		22 AWG	Purple	Φ4
PH 6	8	White/Black Stripe		22 AWG	Yellow	Φ6
PH 8	9	Blue		22 AWG	Blue	Φ8
	NA	Orange	NA		Grey	NA

Terminals for Walk and Don't Walk (120VAC) in the Cabinet



Terminals of the Ped Calls (Low Voltage) in the Cabinet



WiAAPS & WiAAPS Wave

Recommended Setup

WiAPC
Default IP: 192.168.1.101
Username: admin
Password: password

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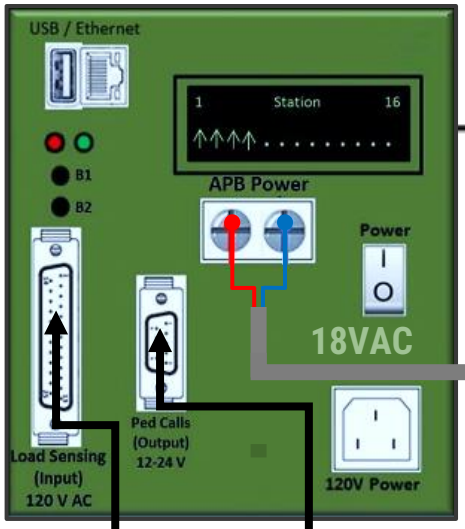
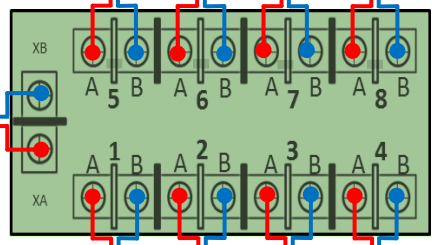


Wireless Communication

Place the Antenna on top or side of cabinet with a direct line of sight to intersection where the WiAPBs are located.

WiAPB 5 WiAPB 6 WiAPB 7 WiAPB 8



WiAPC input is HIGH VOLTAGE using a 25-pin 120VAC conductor cable.

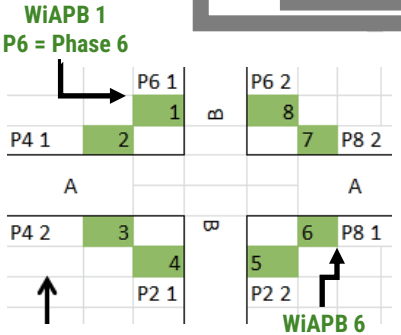
WiAPC output is LOW VOLTAGE using a 9-pin conductor cable.

Termination Board: It is recommended, for troubleshooting purposes to use the "A" terminals for power and "B" terminals as common. Also use Termination Board slot #1 for WiAPB "1", slot #2 for WiAPB "2", and so on for all the WiAPBs. Stations are NOT polarity dependent.

Each WiAPB must have a unique ID number; phases can be assigned to multiple WiAPBs. Programming will be necessary to assign ID numbers and phases to each WiAPB station from the WiAPC.

Utilizes the existing or new Field Wires from the cabinet to pedestrian push buttons (for power only). Connect the Field Wires from the cabinet onto the Termination Board.

If the system was preprogrammed by PedSafety, please use the WiAAPS Worksheet Map for proper placement for each station.



Warranty Void **if WiAPB is Installed Upside Down!**

WiAPB 1 WiAPB 2 WiAPB 3 WiAPB 4