917-1S Loop Vehicle Detector Installation Instructions

OVERVIEW

The 917-1S Loop Vehicle Detector easily interfaces to the Panasonic Ultraplex Wireless System. The following installation instructions refer only to connection to the Panasonic Ultraplex Center Module. The 917-1S mounts to the wall near the center module with the hardware provided. Colored indicators on the vehicle detector cover indicate power, car presence, and loop failure. The 917-1S is pre-programmed for the output signal type to the center module.

INSTALLATION

The unit is powered by the low voltage UL approved wall type transformer that plugs into top of the black enclosure.. The cable from loop coil should be soldered to the Orange and Red Wires of the 917-1S. The signal that triggers the presence indicator on the center module connects from Ultraplex V/DET input C connector to the Brown wire of 917-1S and the Ultraplex V/DET IN connector to the 917-1S yellow wire.

Loop Input Cable

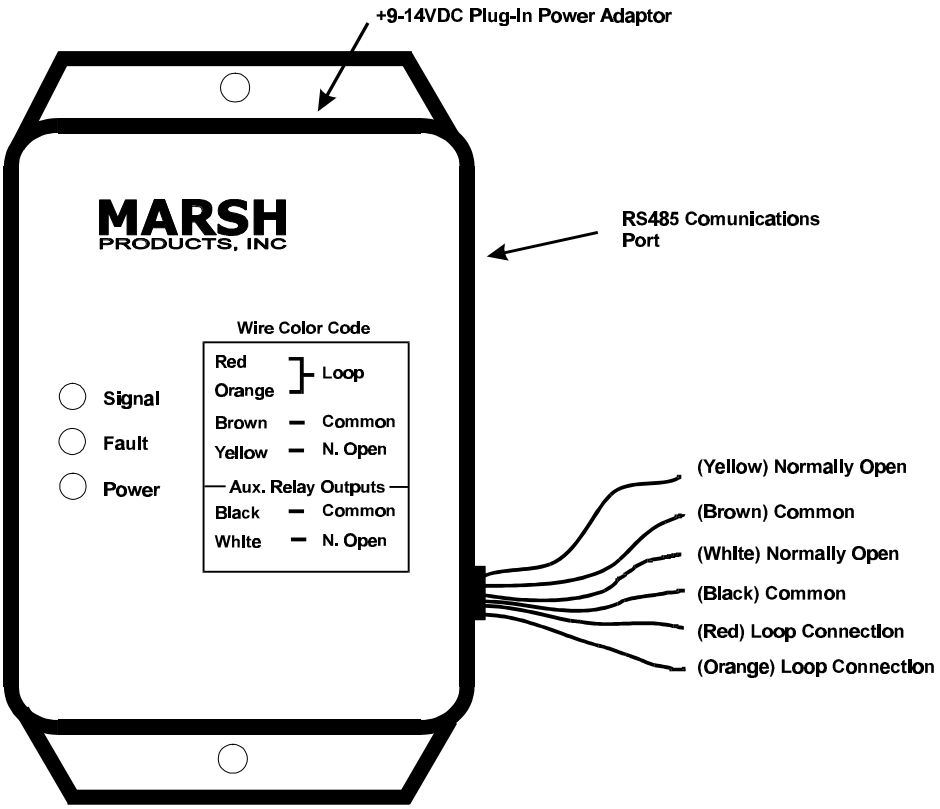
1. Remove a sufficient amount of the cable jacket from the 18AWG 1-Pr shield loop input cable to permit a comfortable working length.
2. Remove the shield and drain wires from this end of the cable.
3. Strip the insulation back 1/8" on both conductors.
4. Solder one conductor of the loop input cable to the Orange wire of the 917-1S detector.
5. Solder the other conductor of the loop input cable to the Red wire of the 917-1S detector.
6. Wrap each soldered connection in electrical tape or heat shrink tubing.

Output Signal Connections

1. Connect the Yellow wire from the 917-1S detector (Normally Open) to the IN position on the V/DET Terminal block of the Center Module.
2. Connect the Brown wire from from the 917-1S (Common) to the COM position on the V/DET Terminal block of the Center Module.

Power Connection

Simply plug the 14VDC power adaptor into the power jack on the outside of the case.



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917-1S Loop Vehicle Detector Installation Instructions (Continued....)

ALTERNATIVE CONNECTIONS

9-14VDC or 10-14VAC Alternative Power Connections

1. Any 9-14VDC or 10-14VAC power source can be used to supply power to the unit. Route the two conductors of the power source into the black enclosure of the 917-1S detector. Connect the positive lead of the DC supply to screw terminal position labeled +9-14VDC and the common lead to the Common screw terminal position. If an AC source is used connect either lead to the screw terminal position labeled +9-14VDC or 10-14VAC and the other lead to the common screw terminal position.

Alternative Signal Output

The Black and White wires of the 917-1S provides an additional relay output. This can be used to trigger an alternative event such as a car timer. The Black wire provides a secondary common from the relay. The White wire provides a secondary Normally Open output from the relay.

MOUNTING

The 917-1S provides velcro and hardware solutions for mounting

To mount the vehicle detector using the two strips of hook and loop velcro adhered the two hook strips to the back of the black enclosure.. Press the loop strips to the hook strips. Remove the adhesive backing and press against the wall. The vehicle detector can then be easily removed from the wall with a slight tug.

There are also two mounting screws provided for fastening the detector to the wall. The screw mounting can be used instead of the velcro. .

OPERATION AND TEST

1. The Green LED will light when power is added to the system and will remain lit as along as power is applied to the Loop Detector.

2. If the Red Loop Failure LED is lit, an open or short condition exists.

3. Arrival of a vehicle.
   a. The Yellow LED will light whenever a vehicle is over the loop and will remain lit as long as a vehicle is present.
   b. The location of a shunt in position one will cause 2/10ths of a second pulse on arrival instead of a constant presence signal.

4. Departure of a vehicle
   a. When the vehicle moves away from the loop, the Yellow LED will turn off.
   . c. The location of a shunt in position two will cause 2/10ths of a second pulse on departure instead of a constant presence signal.

Output Signal Type	**(Pos 1& 2)**
Constant presence signal	**None**
Pulse on arrival	**1 Only**
Pulse on departure	**2 Only**
Pulse on arrival and departure	**1 & 2**
Arrival Delay	**(Pos 3 & 4)**
No Delay	**None**
1 Sec	**3 Only**
2 Sec	**4 Only**
4 Sec	**3 & 4**
Departure Delay	**(Pos 5 & 6)**
No Delay	**None**
1 Sec	**5 Only**
2 Sec	**6 Only**
4 Sec	**5 & 6**
Sensitivity	**(Pos 7 & 8)**
Most Sensitive	**None**
.	**7 Only**
.	**8 Only**
Least Sensitive	**7 & 8**