WIRELESS SENSOR

Installation and configuring:

Details:

The Wireless sensor system allows train detections without using wires. The wireless system includes multiple transmitters placed around the track and a receiver attached to the controller.

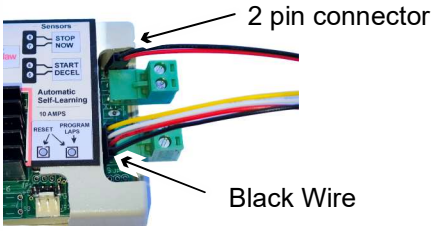
Wireless Transmitter

The transmitter is powered by a 9 volt battery which should last over a year. Connect the battery to the transmitter and place the train sensor on the track. The train will carry a magnet that will trigger the sensor. The best sensor to magnet alignment is with the magnet passing over the tip of the sensor. The transmitter will blink blue when a train is sensed. Please keep it dry.

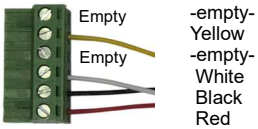
Wireless Receiver

The receiver is attached to the train controller with the two cables included.

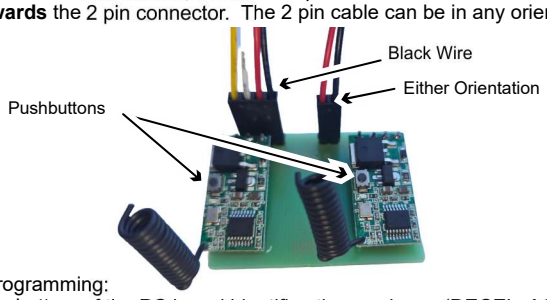
- The 2 pin cable attaches to the 2 pin header next to the sensor connector. A jumper is installed in that location which must be removed. There is no polarity, install in either direction. **Note that the jumper must be replaced when the wireless receiver is removed.** (Please don't lose the jumper)
- The 4 pin cable is attached to the 4 pin header parallel to the sensor connector. The polarity must be correct to operate, but the wireless receiver will not be damaged if installed backwards. *On the train controller,* Install the cable with the black wire **away** from the 2 pin connector.



For units that do not have the 4 pin header installed, cut off one end of the cable and connect the wires as shown:



On the wireless receiver, install the 4 pin cable with the black wire **towards** the 2 pin connector. The 2 pin cable can be in any orientation.



- Programming:

The bottom of the PC board identifies the receivers. (DECEL, ACCEL and STOP) These map to the three sensor inputs. Your controller may have different names for these, and some could be unused. Similar to a garage door opener, the transmitter and receiver must be married. Each receiver contains a pushbutton. To marry a transmitter and receiver, press the button on the receiver and then trigger the desired transmitter with a magnet on the sensor. There should be a blue blink on both the transmitter and receiver when a train (magnet) is detected at the sensor. Repeat this for each sensor in use. (Please note that the train controller must be powered up to provide power to the receivers)

Many transmitters (sensors) can be linked to the same receiver to allow multiple station stops.

To erase a transmitter/receiver link, press the button on the appropriate receiver eight (8) times, and re-program as needed.