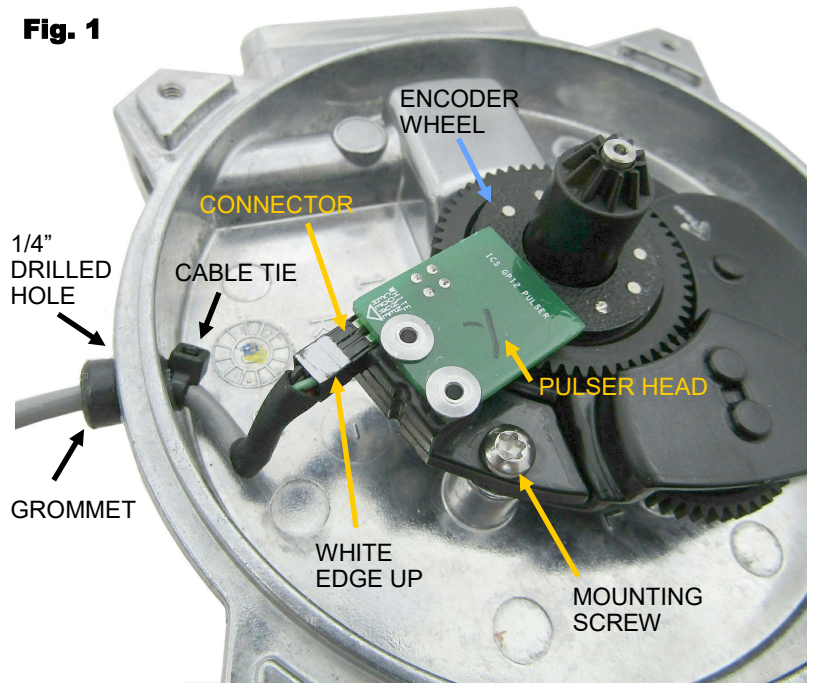Integrated Control Systems
GPI2 PULSER
12 VDC INSTALLATION INSTRUCTIONS
For GPI2 Models GPI2-12-SO-A and GPI2-12-DO-A

The GPI2 Pulser is designed to operate with the GPI M30 meter register. It will generate an output of 10 pulses per gallon.

Fig. 1

1. Remove the front cover of the meter register to reveal the interior.

2. Remove the adhesive backing from the GPI2 encoder wheel. Press the encoder wheel to the top of the center gear as shown in Fig. 1.

3. Remove the gear assembly mounting screw and install the GPI2 pulser head as shown. Use the included mounting screw. The screw head is a Torx T15.

4. Carefully drill a 1/4" hole in the side of the housing, just behind the O-ring seal. The hole should be located on the side of the register where the pulser head is installed. It is recommended to drill a 1/8" or smaller pilot hole first to keep the larger bit centered. Clean out any aluminum shavings.
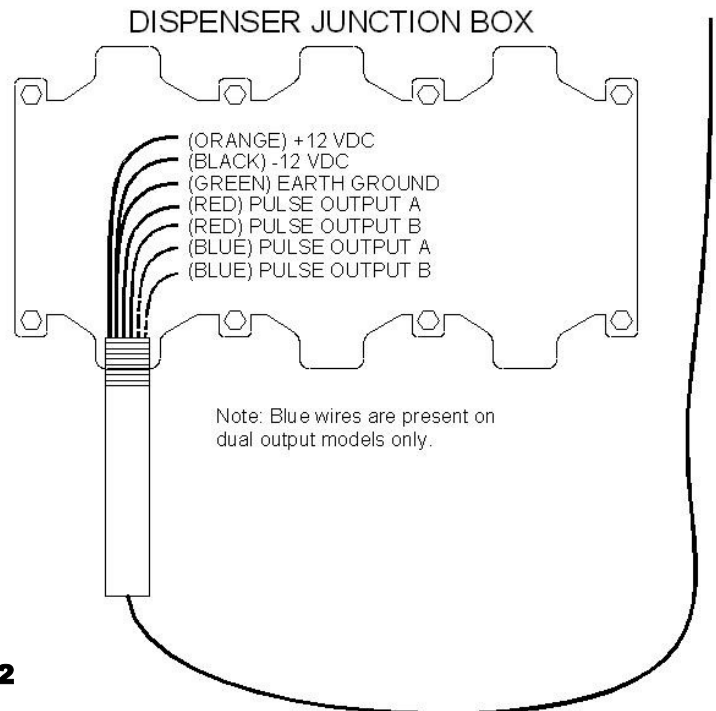
5. Insert the pulser head wire through the drilled hole and carefully plug the connector into the pulser head with the <u>white side facing up</u>. Note that one pin is keyed to orient the direction.

6. Slide the rubber grommet up the wire and into the drilled hole to form a seal. Attach and trim the included cable-tie onto the head wire just inside the drilled hole to prevent the cable from pulling out. Leave a little slack in the cable to prevent pulling on the connector.

7. Mount the GPI2 barrier and connect the wires as shown in Fig. 2. The pulser should be wired so that power is applied only when the handle switch is on. Note that the pulse output is a contact closure type, and the red wires (and blue wires for dual output models) are not polarity sensitive.

8. Installation of the GPI2 pulser is now complete. Reinstall the register assembly and run a test transaction and make sure that the pulser output is correct.

Fig. 2

ENCODER WHEEL
CONNECTOR
1/4" DRILLED HOLE
CABLE TIE
PULSER HEAD
GROMMET
WHITE EDGE UP
MOUNTING SCREW

DISPENSER JUNCTION BOX

(ORANGE) +12 VDC
(BLACK) -12 VDC
(GREEN) EARTH GROUND
(RED) PULSE OUTPUT A
(RED) PULSE OUTPUT B
(BLUE) PULSE OUTPUT A
(BLUE) PULSE OUTPUT B

Note: Blue wires are present on dual output models only.

Specifications:
Operating Temperature Range: -40 to 150 degrees F.
Input Voltage Range: 70 to 150 Volts AC
Pulser Output Voltage Range: 5 to 350 Volts AC or DC
Maximum Speed 30 GPM
Output Resolution: 10 pulses per gallon

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GPI2 PULSER INSTALLATION IMPORTANT NOTICE

When installing the GPI2 pulser barrier in the open (outside of a pump or dispenser cabinet), be sure to mount the barrier with the head wire facing downward as shown in the diagram at right.

Make a small loop in the head wire as shown, and tie-wrap the head wire to the barrier.

This configuration will prevent water from running down the head wire and collecting on the barrier seal.