
BavisAIR BPS Pneumatic System

External Counter Installation Manual

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BavisAIR BPS External Counter

Overview

The BPS External Counter will only work with units using the Divelbiss PLC, and with a build date of 11/10 or later. Since a counter cannot be connected directly to the PLC output, there is a conditioning circuit built into the wiring harness. **Use only the parts supplied.**

The counter will increment one count each time a full cycle has been encountered. A full cycle is defined by one outbound move and one inbound move. Any extra moves in one direction will be ignored.

The connecting cable provided is shipped at a length of 3 feet. It can be cut and spliced to lengthen it to meet the sites needs. When doing so, maintain the wire polarity, (red to red, and black to black) across the spliced in section.

The counter display is **not** weather resistant and this should be taken into consideration as to where it is to be mounted. It has an operating temperature range of -30 to +75 degrees C.

There is a set of mating connectors on short black wires in the 10 position connector of the Counter Harness that when connected, will start a "Send" move every time the Teller Door is closed. If the customer does not want this type of operation, leave these wires disconnected.

If there are questions about any of the following, contact the Technical Service Department at (513) 677-0500.

Counter & Harness Installation:

1. Disconnect the electrical power to the lane.
2. Remove the stainless steel skin from the customer unit.
3. Remove the black plastic control board cover.
4. Check to see if the 10 position "Teller Door Closed Auto-send" jumper/connector, (See Fig. 1), has been installed onto the 10 pin "AUXIO" connection in the upper left corner of the PLC board. If it is, plug the 0.187 quick slide connectors, (See Fig. 2), on the Counter Harness together and remove the jumper/connector from the board. If not, leave these two wires disconnected.
5. Plug the Counter Harness onto the AUXIO connector so the embossed arrow on the harness's 10 position connector is at the top and will be directly over the "1" printed on the board, (the connector and pins are "keyed" you should not be able to plug it onto the board any other way without forcing it).
6. Drill a ½" hole into the bottom of the black plastic control board cover, (see Fig 3).
7. Insert one end of the counter Connecting Cable through the ½" hole with enough cable inside the cover that it can be moved without disconnecting or straining the cable to board harness connection. (NOTE: If the Connecting Cable needs to be lengthened to remote mount the count display, it is recommended that the splice connection be made so it will be inside the plastic control board cover.)
8. Place the snap-in strain relief over the cable that is outside of the cover. Insert the gripping lug into the slot to hold the cable, and then snap the strain relief assembly into the ½" hole in the cover.
9. Mount the Counter display in a weather shielded location using the bracket provided, (if needed), and the connect wiring. (NOTE: The bracket can be bent along the line of perforations to form a "Z" if a "stand-up" bracket is needed.)
10. Secure wiring as needed.
11. Reconnect power to the lane. (Due to the electronics involved, a count will register on the display each time line power is removed and reapplied, or the counter connection is removed and then reinstalled onto a powered up control board.)
12. Test the unit and counter operation.
13. Reinstall the control board cover and the customer unit skin.

Optional Teller Door Auto-send

Each lane has the ability to automatically send the carrier out to the customer when the Teller Door is closed by the Teller and the Power switch is in the ON position. To enable this feature, there is attached to the control harness cable, a keyed 10 position connector with a black wire. Detach this connector and plug it onto the 10 position header on the upper left of the control board as shown below.

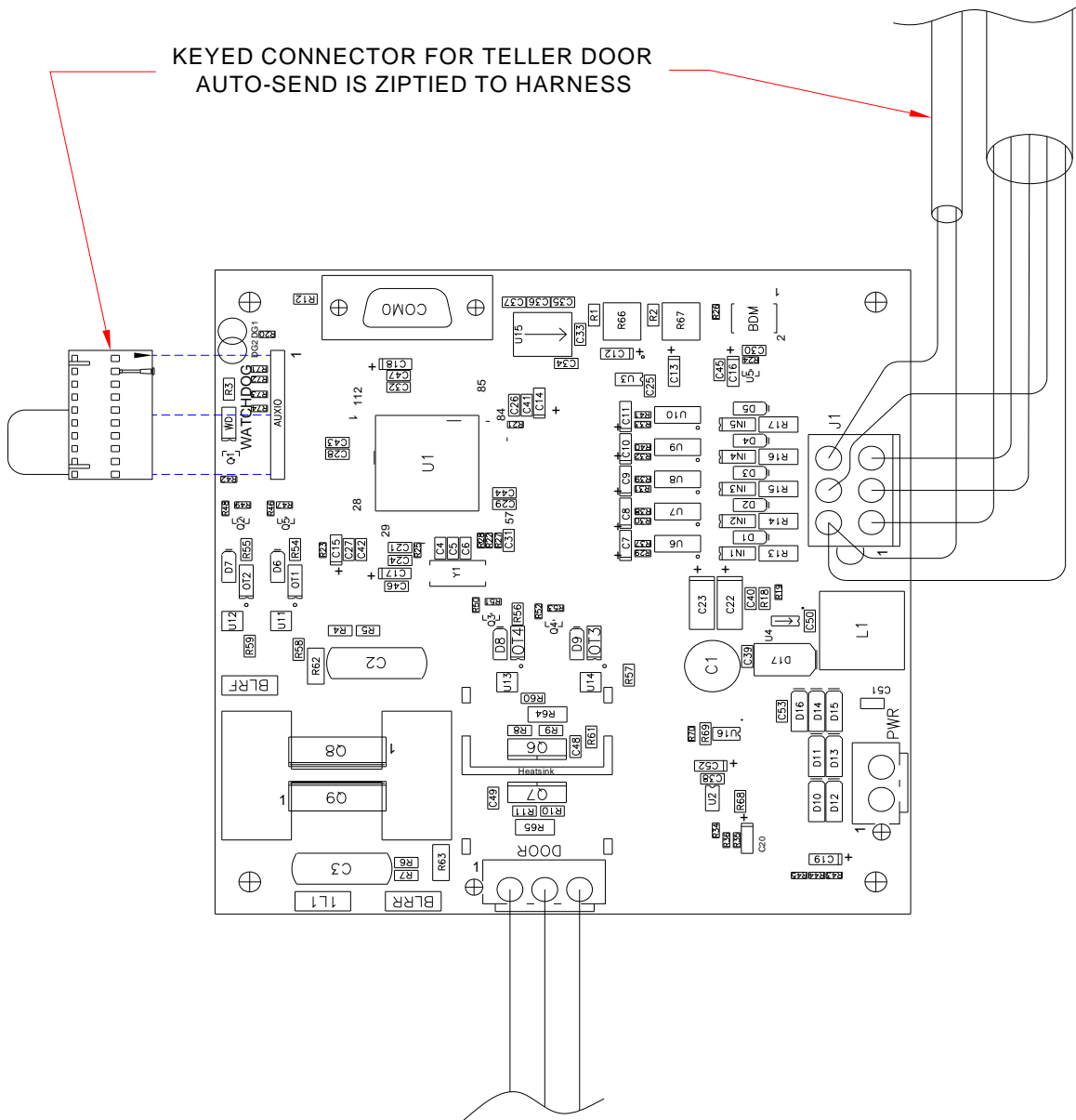


Fig.1

External Counter Wiring Diagram

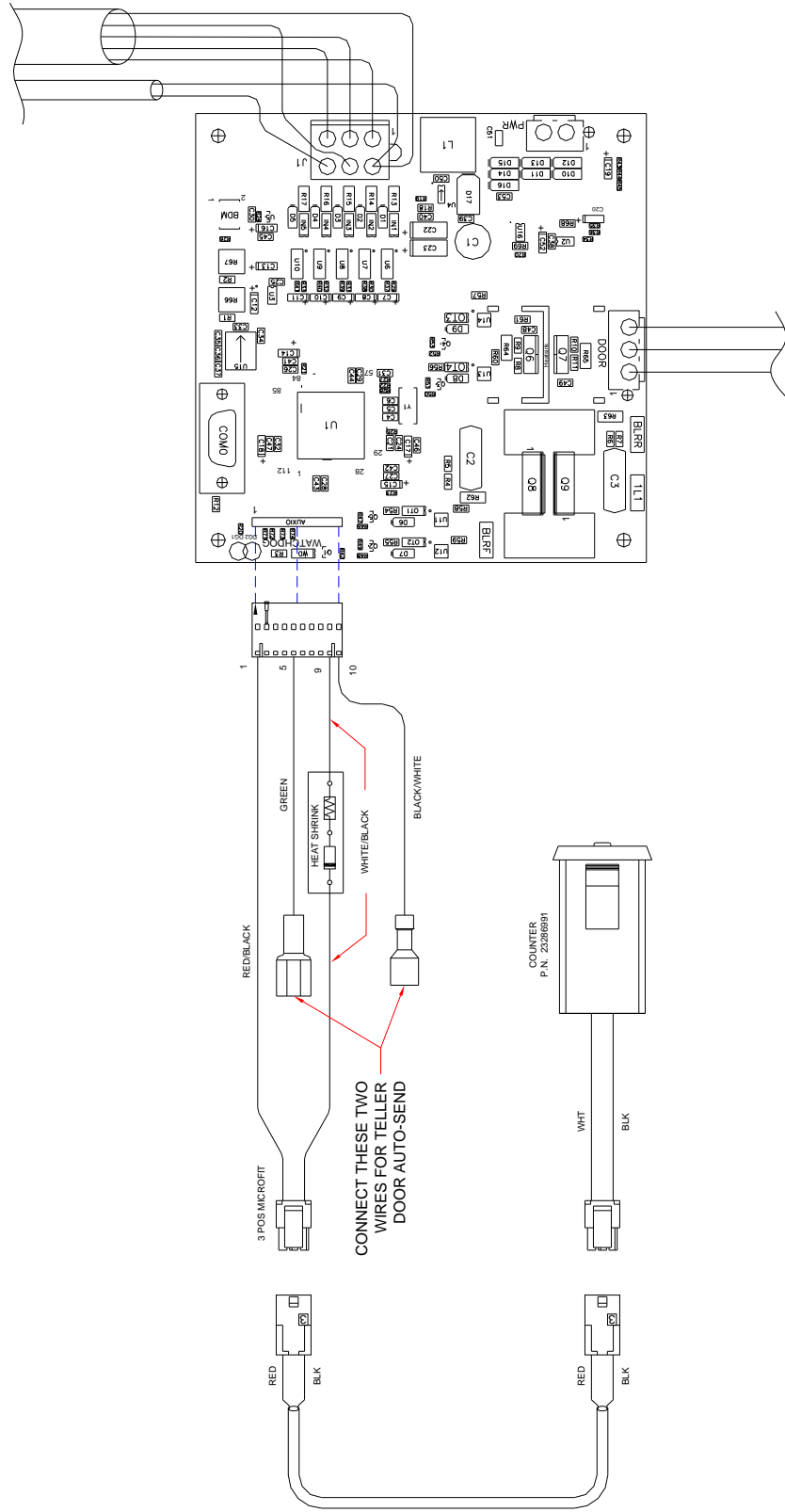


Fig. 2

Control Cover Hole Illustration

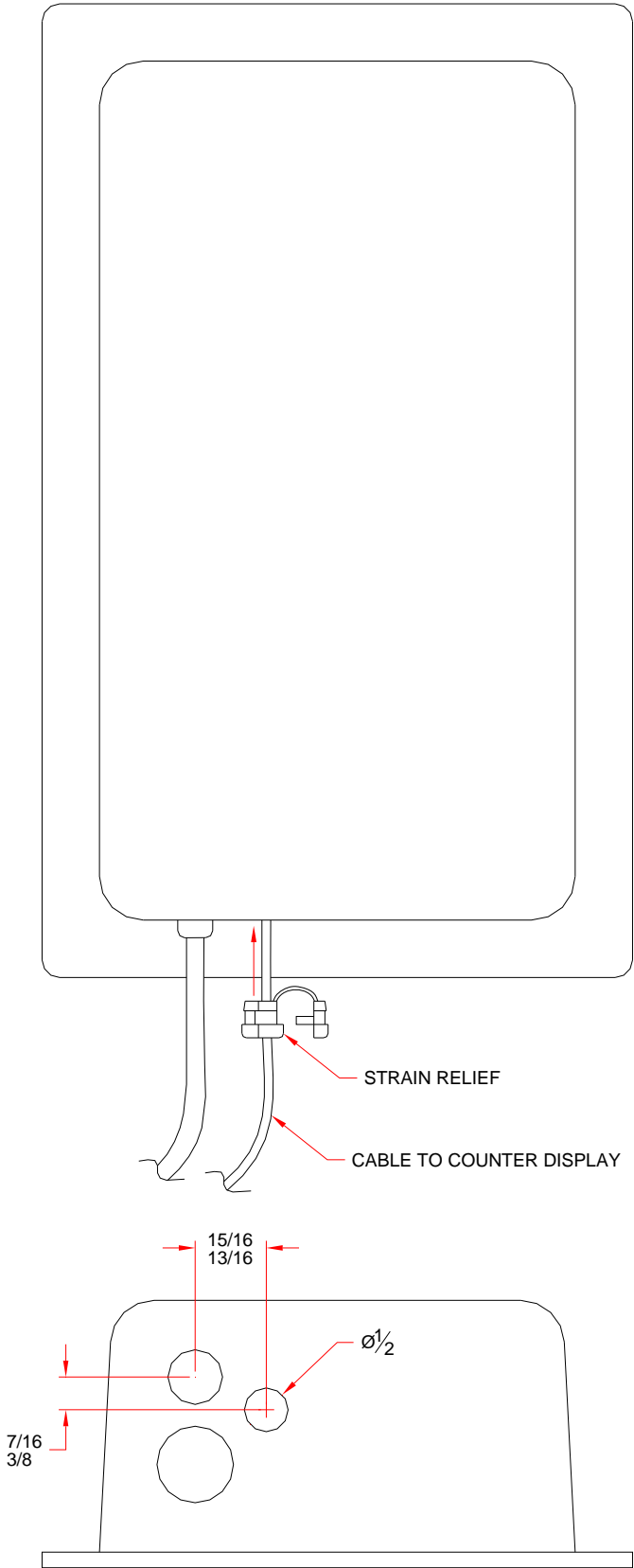


Fig.3

