

Installation Instructions BHW100 Bilge High Water Detector

Instructions

Please follow these instructions to connect the BHW100 to the NMEA 2000 network via a Maretron SIM100 Switch Indicator Module. The wiring diagram appears in Figure 1 on the reverse of this page. The diagram shows a connection to channel #1, but connections to other channels are similar.

1. The BHW100 cable contains one blue and one brown wire. Connect the brown wire to a free switch channel “A” terminal on the SIM100. The example in Figure 1 shows the detector connected to switch channel 1 with the brown wire connected to “SW1A”.
2. Connect the blue wire to the corresponding “SWxB” terminal. The example in Figure 1 shows the detector connected to switch channel 1 with the blue wire connected to “SW1B”.



NOTE: The brown wire from the BHW100 must be connected to the “A” terminal of the switch channel and the blue wire must be connected to the “B” terminal of the switch channel. If these wires are reversed, the detector will not operate properly.

3. Use a Maretron NMEA 2000® gateway, such as the USB100 paired with a PC running N2KAnalyzer, or a Maretron DSM Series display (firmware 1.3.5 or higher), or another Maretron display product capable of configuring the SIM100 to set the switch channel mode (indicated as “Channel #x Mode”) to “End of Line Resistor”. For this example, you would set “Channel #1 Mode” to “End of Line Resistor”.
4. With the BHW100 out of water, supply power to the NMEA 2000 network and verify that the switch channel indicates the “off” (normal) state using Maretron N2KView software, N2KAnalyzer, or other product capable of displaying switch indicator state.
5. Immerse the BHW100 in water and verify that the switch channel indicates an “on” (alarm) state during the test.
6. Disconnect either the brown or blue alarm wire from the SIM100 and verify that the switch channel indicates an “error” state.
7. Reconnect the wire after the test and verify that the switch channel indicates an “off” (normal) state.
8. Install the BHW100 to the side of the bilge so that the molded-in “target” on the side of the unit is visible, and so that the center of the target is at the height of the water level at which you want the bilge water alarm to occur.
9. Seamlessly integrate the BHW100 and SIM100 with Maretron’s monitoring ecosystem — MConnect, N2KView, or any DSM Series display — and unlock full visibility from anywhere on the vessel. Each channel reports independently, giving you precise insight into equipment behavior and enabling customizable NMEA 2000® alerts based on real-time conditions.

(continued on reverse)

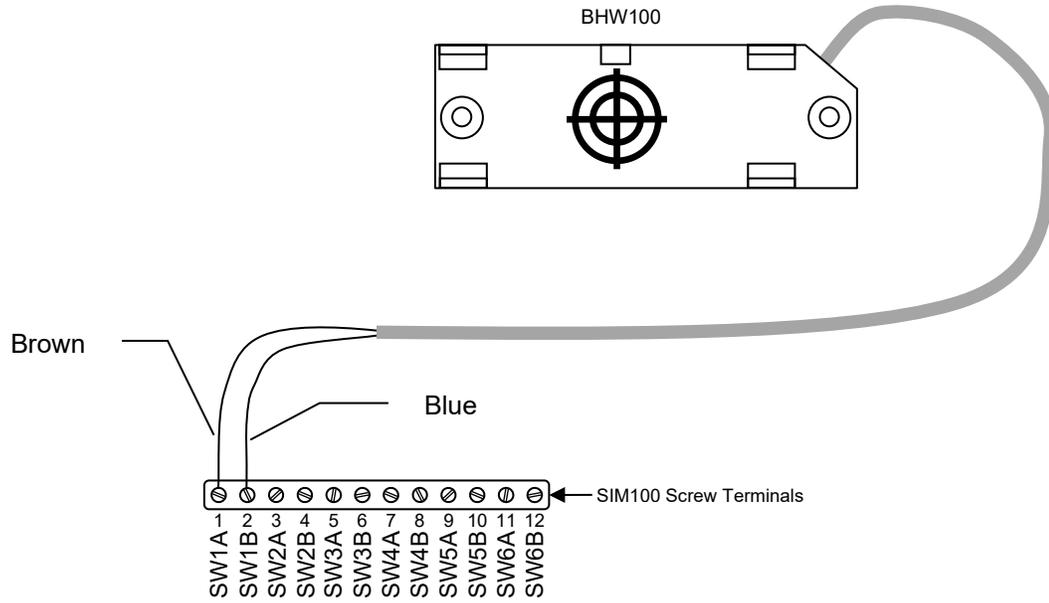


Figure 1 – Wiring Diagram

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