Maretron®

Installation Instructions
SH-003-Kit High Temperature Smoke/Heat Detector Kit

Description
This kit contains a smoke/heat detector, auxiliary relay, and sounder that are designed to work in high temperature marine environments, such engine rooms. The components in this kit are rated from -25°C (-13°F) to +70°C (158°F). This system is designed to work with a 24 VDC power supply.

Opening the Box
You will find the following items in the box:

1	Apollo Orbis Marine Multi-Sensor Detector with Flashing LED (ORB-OH-43003-MAR)
1	Apollo Orbis Marine Relay Base (ORB-RB-40004-MAR)
1	Cranford Controls R24B 'Auxiliary Relay Operated' Auxiliary Relay Unit (CC-RIU-R24B)
1	Klaxon Sonos Sounder Only, White Body, Shallow Base 9-60v DC (PSS-0039)
1	8 KΩ end-of-line resistor

Instructions
Please follow these instructions to connect the SH-003-KIT the NMEA 2000® network via a Maretron SIM100 Switch Indicator Module.

⚠️ **WARNING:** The base units for the sensor and the sounder are similar in appearance. When installing and connecting the system, ensure you have identified which base unit is which.

1. Mount the Orbis Relay Base, Auxiliary Relay, and Klaxon sounder base in your desired location per the manufacturers' instructions.

2. Connect the units according to the following wiring diagram:

⚠️ **WARNING:** The SH-003-Kit is shipped with an 8KΩ end-of-line resistor. Install this resistor as shown in the wiring diagram.
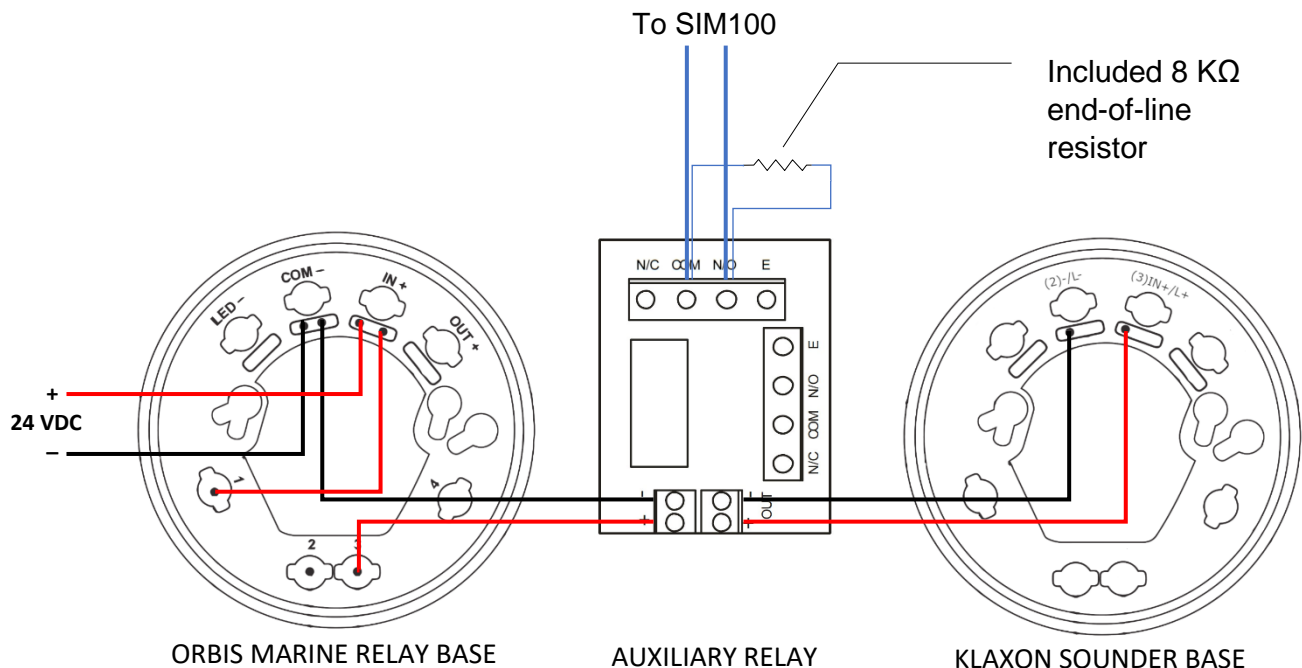

Figure 1 – Wiring Diagram

(continued on reverse side)

3. Configure the SIM100 switch channel mode (indicated as "Channel #*x* Mode") to the "End of Line Resistor" setting. Please refer to the *SIM100 User's Manual* for details.

4. Mount the Orbis Marine Smoke/Heat Detector and the Klaxon Sounder to their respective bases.

5. Supply power to the NMEA 2000® network and to the SH-003-Kit and verify that the switch channel indicates an "off" (normal) state using a Maretron display, N2KAnalyzer, or other product capable of displaying switch indicator state.

6. Perform a smoke test and heat test on the Orbis Marine Smoke/Heat Detector and verify that the switch channel indicates an "on" (alarm) state and that the sounder generates the alarm sound during each of the tests.

7. Disconnect either of the two alarm wires from the SIM100 and verify that the switch channel indicates an "error" state.

8. Reconnect the alarm wires to the SIM100 and verify that the switch channel indicates an "off" (normal) state.

    The SH-003-Kit is packaged with the original manufacturers' installation instructions. Please retain these documents and review them for testing and maintenance procedures.

For installation support, please contact:

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