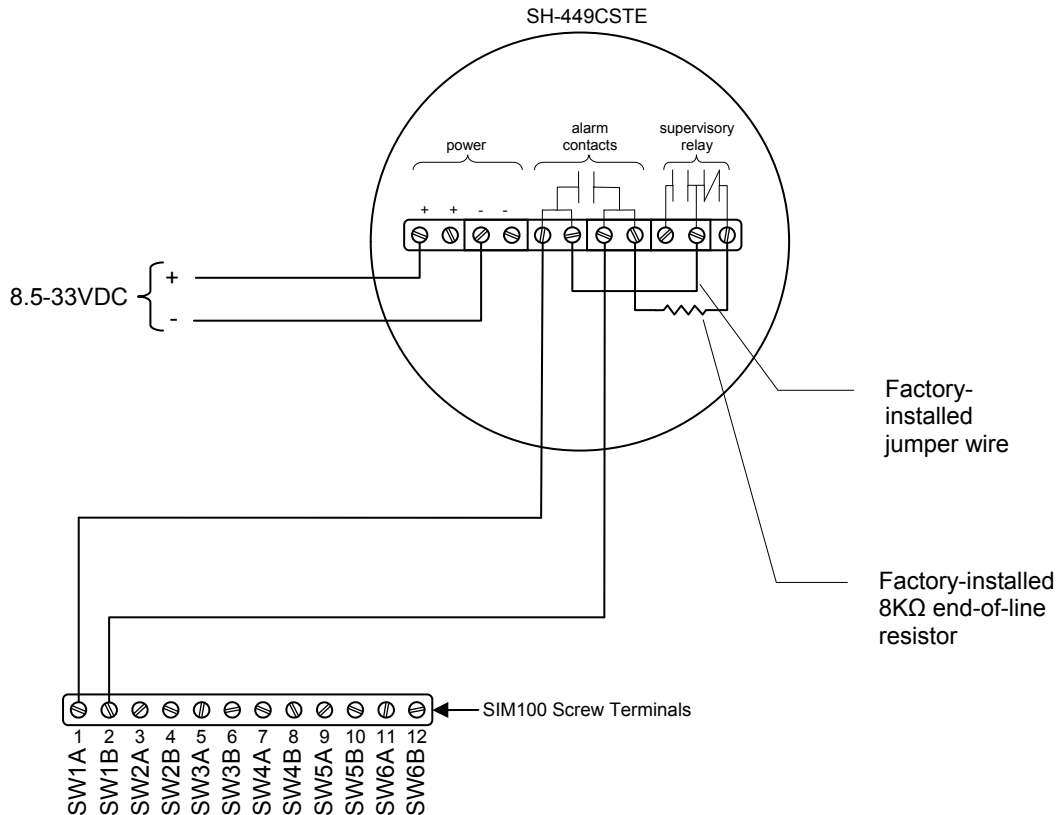


## Installation Instructions SH-449CSTE Smoke/Heat Detector

### Instructions

Please follow these instructions to connect the SH-449CSTE to the NMEA 2000 network via a Maretron SIM100 Switch Indicator Module. The wiring diagram appears in Figure 1 below.

1. Connect the SH-449CSTE power terminals to a 8.5-33VDC supply that is independent of the NMEA 2000 network power supply as shown in Figure 1 below.
2. Connect the two alarm contact terminals to the appropriate SWxA and SWxB terminals on the SIM100 as shown in Figure 1 below.
3. Use a DSM250 (firmware 1.3.5 or higher) or other Maretron display product capable of configuring the SIM100 to set the "Channel #x Mode" for the appropriate channel to "End of Line Resistor".
4. Supply Power to the NMEA 2000 network and to the SH-449CSTE and verify that the switch channel indicates an "off" (normal) state using N2KView or N2KAnalyzer.
5. Perform a smoke test and heat test on the SH-449CSTE (or optionally, test the unit by holding a magnet close to the "TEST" point marked on the outside of the detector) and verify that the switch channel indicates an "on" (alarm) state during each of the tests using N2KView, N2KAnalyzer, or other product capable of displaying switch indicator state.
6. Remove power from the SH-449CSTE and verify that the switch channel indicates an "on" (alarm) state.
7. Disconnect one of the two alarm wires from the SIM100 and verify that the switch channel indicates an "error" state. Reconnect the alarm wire after the test.



**Figure 1 - Wiring Diagram**



**WARNING:** The SH-449CSTE is shipped with an 8KΩ end-of-line resistor installed between one of the alarm contacts terminals and one of the supervisory relay terminals. Also, the detector is shipped with a jumper wire installed between the supervisor relay and the alarm contacts. Do not remove either the resistor or the jumper wire, as they are required for proper operation.

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