

To: All users of System Sensor Products
From: Marketing and Technical Services
Subject: Wiring Guidelines and Recommendations

In response to frequent queries regarding proper wiring techniques and guidelines, we have prepared the following recommendations.

Many products will include a strip gauge indicator on the product label or on the device itself. We recommend that the indicated strip length be followed.

Where not otherwise indicated, the recommended strip length for conductors to be connected to clamping plate wiring terminals with SEMS screws is $\frac{1}{4}$ " minimum and $\frac{3}{8}$ " maximum. These dimensions ensure that proper contact is made with the clamping plate. Strip lengths which exceed these guidelines can cause exposed conductors to contact each other, junction box housings, or even undesirable areas of the device circuitry, which can introduce the potential for ground faults, short circuits, equipment damage or otherwise represent a compromise of safe wiring practices.

After tightening the SEMS screws, pull back on the wires to be sure that they are secure and check that there are no wire strands outside the terminal block.

The photos illustrate both correct and incorrect examples of wiring terminations.

It is not recommended to make connections while the system is energized or power is otherwise applied to the conductors.

To ensure proper supervision, conductors should not be looped under terminals. Wire runs should be broken at each terminal.

For additional information, refer to the installation manual for the individual device or the Fire Alarm Control Panel installation manual.

In addition to these guidelines, installers should adhere to the requirements of the National Electrical Code, National Fire Protection Administration, and any applicable national and local codes.

Note: System Sensor, a Honeywell International, Inc. business does not approve, inspect or certify any installations, procedures, equipment, or materials. The above information has been provided in an attempt to assist with proper installation practices and should in no way be construed as a specific installation approval or certification.

If you have any questions concerning System Sensor products or their application, please contact Technical Services at 1-800-SENSOR2 (736-7672), extension 2.

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CORRECT



No exposed conductor beyond the intended terminal area

INCORRECT



Conductors extend beyond terminal area and are at risk of contact

INCORRECT



Conductors extend beyond terminal area and are in contact

INCORRECT



Conductor insulation trapped under clamping plate

INCORRECT



Single conductor looped around mounting plate vs. separate in/out wiring

INCORRECT



Conductors stripped to improper length & in contact with junction box housing