

To: Users of System Sensor smoke detectors
From: Systems Application Engineers
Subject: The use of electrical boxes according to the N.E.C.

The following statements are in regard to the installation of fire alarm devices and their accessories. The noted journal of reference is the National Electrical Code, 1999 edition, located in the Chapter titled "Fire Alarm Systems".

760-52 (b) PLFA Wiring Methods and Materials. Power-limited fire alarm circuit conductors and cables described in Section 760-71 shall be installed as follows:

(1) In raceway or exposed on the surface of ceiling and sidewalls or "fished" in concealed spaces. **Cable splices or terminations shall be made in listed fittings, boxes, enclosures, fire alarm devices, or utilization equipment.**

760-54. Installation of Conductors and Equipment.

(a) Separation from Electric Light, Power, Class 1, and NPLFA Circuit Conductors.

(1) In Cables, Compartments, Enclosures, Outlet Boxes, or Raceways. **Power-limited circuit conductors shall not be placed in any cable, compartment, enclosure, outlet box, raceway, or similar fitting containing conductors of electric light, power, Class 1, or nonpower-limited fire alarm circuit conductors.**

The above statement permits fire alarm devices to be directly mounted, without back boxes, to the wall. Wiring may also be terminated at the fire alarm device. As always, consult the Authority Having Jurisdiction prior to installation.

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