

Electrical Signaling

Electrical protective signaling systems are configurations of components used to produce alarm signals indicative of fire, smoke, sprinkler waterflow or other emergency and to produce supervisory signals indicative of conditions needing attention with respect to protection equipment or watch service. System configurations are classified according to where and how the signals are received. The categories are commonly designated as local, municipal, remote station, proprietary, emergency voice/alarm communication, emergency communication, and central station. Auxiliary systems are either local or proprietary systems interconnected with a municipal system.

This category presents the major system component categories and the integrated system configurations. The selection of components to form a hybrid system should be made only by those skilled in system design. Also, the suitability of any system application should be judged on the basis of the hazard(s) being protected.

Auxiliary Power Supplies, Battery Chargers and Notification Appliance Circuit Boosters for Fire Protective Signaling Systems

These optional products with secondary power supply having sufficient capacity to operate the product for 24 hours under maximum normal load are intended to extend a conventional fire alarm panel's signaling capacity. Products listed in this category either interface the booster power supply through dry contact interface to the Fire Alarm Control Panel (FACP) or connect to the NAC [notification appliance circuit]. Products that can only communicate via signal line circuit are listed with the FM Approved controls.

Models FN-400ULX, FN-600ULX, FN-1024ULX

Models FN-400ULX-G, FN-400ULX-R, FN-400ULX-C, FN-400ULX-B, FN-600ULX-G, FN-600ULX-R, FN-600ULX-C, FN-600ULX-B, FN-1024ULX-G, FN-1024ULX-R, FN-1024ULX-C and FN-1024ULX-B auxiliary power supplies/battery chargers. The FN-400ULX-G, FN-400ULX-R, FN-400ULX-C and FN-400ULX-B have a selectable 12 V dc or 24 V dc power limited output rated at 4 amps when 12 V dc output is selected and at 3 amps when 24 V dc output is selected. Maximum battery charge current is 0.7 amps. The FN-600ULX-G, FN-600ULX-R, FN-600ULX-C and FN-600ULX-B have a selectable 12 V dc or 24 V dc non-power limited output rated at 6 amps. Maximum battery charge current at 0.7 amps enclosure accommodates two 7 AH batteries. The FN-1024ULX-G, FN-1024ULX-R, FN-1024ULX-C and FN-1024ULX-B have a 24 V dc non-power limited output rated at 10 amps during an alarm and at 8 amps at standby. Maximum battery charge current 3.6 amps. Each power supply accommodates two 12 AH batteries within the enclosure. Maximum size of the batteries is 40 AH for FN-400ULX-G, FN-400ULX-R, FN-400ULX-C, FN-400ULX-B, FN-600ULX-G, FN-600ULX-R, FN-600ULX-C and FN-600ULX-B units, and 65 AH for FN-1024ULX-G, FN-1024ULX-R, FN-1024ULX-C and FN-1024ULX-B. Each power supply has two form C trouble relays rated 2 amps at 28 V dc.

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