

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-642-ULADA, FN-842-ULADA, FN-1042-ULADA

Models FN-642-ULADA-R, FN-642-ULADA-G, FN-642-ULADA-C, FN-642-ULADA-B, FN-842-ULADA-R, FN-842-ULADA-G, FN-842-ULADA-C, FN-842-ULADA-B, FN-1042-ULADA-R, FN-1042-ULADA-G, FN-1042-ULADA-C and FN-1042-ULADA-B, notification appliance boosters/battery chargers with two input circuits rated 9-30 V dc (5.0 mA minimum per input) connecting to an FM Approved fire alarm control to extend the control's signaling capacity: to 6.5 A with two separate 1 A auxiliary outputs for FN-642-ULADA-R, FN-642-ULADA-G, FN-642-ULADA-C and FN-642-ULADA-B; to 8 A with two separate 1A auxiliary outputs for FN-842-ULADA-R, FN-842-ULADA-G, FN-842-ULADA-C, FN-842-ULADA-B; and to 10A with two separate 1A auxiliary outputs for FN-1042-ULADA-R, FN-1042-ULADA-G, FN-1042-ULADA-C and FN-1042-ULADA-B. Each booster power supply requires 120 V ac primary power with a 24 V dc secondary power provided by two 12V batteries with up to 36 AH capacity, charged by a 0.7 A maximum internal current. The models FN-642-ULADA-R, FN-642-ULADA-G, FN-642-ULADA-C, FN-642-ULADA-B, FN-842-ULADA-R, FN-842-ULADA-G, FN-842-ULADA-C, FN-842-ULADA-B, FN-1042-ULADA-R, FN-1042-ULADA-G, FN-1042-ULADA-C, FN-1042-ULADA-B each have four (Class B) Style Y notification appliance circuits (NAC) which may be wired for four (Class A) Style Z circuits, or two (Class B) Style Y circuits in addition to two (Class A) Style Z circuits. Each power supply has two form C trouble relays rated 2 amps at 28 V dc.

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