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.

Local Protective Signaling

Local systems produce alarm and/or supervisory signals within the protected property, which may not be constantly attended. The systems are electrically supervised, include a secondary power supply having sufficient capacity to operate the system for 24 hours under maximum normal load and often are primarily for the purpose of providing occupant evacuation signals. Some local systems also provide for signaling to a constantly attended remote location.

The heart of a signaling system consists of a control unit to which are connected the initiating and signal indicating circuits. The control unit is usually in a separate enclosure, provides power to its external circuits, and often is of modular design to enable flexibility in obtaining multiple functions. In a coded signaling system, transmitters may be either separate from or integral to a control; they transmit to the control or from a control to remote receiving equipment. The equipment listed below, in conjunction with peripheral devices, may be used to form a complete system or a portion of a multizone system.

FireNET 2127 / 4127 2 Loop, 4 Loop Fire Alarm Control Panels

FireNET 2127 / 4127 (2 loop and 4 loop) Fire Alarm Control Panels. Control uses firmware revision 4.0XX. Basic system consists of a 4 Amp power supply module (P/N FN-PS4), Control Unit Board (P/N FN-4127-BO), batteries (12AH to 17AH for inside the panel mount and up to 26AH for the remote cabinet mount) and Panel Annunciator Board (FN-4127-CPA-BO). The panel provides connections for either two or four signaling line circuit (SLC) loop monitoring (four SLC loop capability in the expanded version of the FireNET 4127 panel requires installation of model FN-4127-SLC loop expansion module). Each SLC loop can be wired either in Class A, Style 6 or Style 7 configuration, or in Class B, Style 4 configuration. The panel provides connections for four Class B, Style Y notification appliance circuits. To enable the network capabilities model FN-4127-NIC Network Interface Card ("NIC") slave card is used. The FireNET 2127 / 4127 can contain a maximum configuration of 64 FireNET 2127 / 4127 panels. Compatible addressable detectors and bases are: model AIE-EA ionization smoke detector, model ALG-V photoelectric smoke detector, model ATG-EA heat detector, models DH-98-A, DH-98-AR and ALK-D duct smoke detectors, ALK-V/-V2/-VW smoke detectors, model ACA-V/-VW multi-criteria photoelectric smoke and fixed temperature heat detector, models HSB-NSA-6/-6W and YBN-NSA-4/-4W 6 in and 4 in bases. Model ASB/-W analog sounder base can be used with models AIE-EA, ALG-V, ALK-V/ALK-V2/ALK-VW and ATG-EA/ATG-EAW and ACA-V/ACA-VW detectors. Compatible addressable modules are: models DCP-FRCME-M, FRCMA, FRCMA-I, FRCME-4-10K, FRCME-S-10K and FRCME-P monitor modules; DIMM dual input monitor module with two independent Class B (Style B) initiating device circuits (IDCs); models R2ML, R2ML-I, R2MH, and R2MH-I dual relay modules, model R2M relay module; model SRM solenoid releasing module; model DCP-SOM-R output release module with model SOM-R-DS disable key switch; CZM conventional zone module with Class A (Style D) or Class B (Style B) initiating device circuits (IDCs); models SOM-AI and SOM-A supervised output Class A modules, DCP-AMS, DCP-AMS-LP, DCP-AMS-KL, DCP-AMS-KL-LP addressable manual pull stations and model SOM signal output module. CZM conventional zone module compatible with: SLK-24F, SLR-24H, SLR-24V, SLR-835 SLR-835W, SLR-835H, SLR-835HW, SLR-835B-2, SLR-835BH-2, SLV-24, SLV-24N, SLV-24V/SLV-24NW photoelectric type smoke detectors; SIH-24F, SIJ-24 ionization type smoke detectors; DCD-135/DCD-135W, DCD-190/DCD-190W combination rate-of-rise fixed temperature detectors. Standby batteries provide 24 hour standby operation.

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