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.

2600HD Series Modular Fire Control Panel

2600HD Series Modular Fire Control Panel. Consists of the main control board (MB-97)with integral power supply and battery charger, or configured for use with two sources of AC power (MB-97-UC1) and an Annunciator panel (AP-12,or AP-20 for HD1 and HD2) or Touch screen graphic display (HD3). HD1 and HD3 are set up for detecting the location of an alarm point on a linear heat detector cable. HD1 uses the alarm point location meter to display the alarm point using either the alarm point location meter or the location meter scanner option. A minimal system configuration would include a zone module, either a ZM-2 or a ZM-3224, connected to a single Approved initiating device. Other optional equipment includes: cable transition module CT-34, alarm expander modules AE-2, auxiliary power supervisory module APS-1, battery charging meters, expander board (EB-2, EB-3), dual zone modules (ZM-2) configurable to report alarm or supervisory conditions, ZM-3224 zone card for use with type TRI dual temperature (155°F [68°C] pre-alarm 200°F [93°C] alarm) linear heat detection cable or up to four conventional alarm or supervisory zones. Audible trouble indication is provided by a built in buzzer. Initiating zones may include the intrinsically safe shunt barriers, Stahl Barrier 9001/01-280-100-101. Detection circuits suitable for hazardous location, Class I, II and III, Division 1, Groups A, B, C, D, E, F, G in accordance with Dwg. IL-1008 and Groups C, D, E, F and G with Dwg. IL-1181. Release module RM-2 is compatible with Skinner LV2LBX25; ASCO 8210A107; (fused appropriately), Star Model D deluge; ASCO 8210G207; Skinner 73218BN4UNLVNOC111C2; Skinner 73212BN4TNLVNOC322C2; Skinner 71395SN2ENJ1NOH111C2; and Viking HV-274-060-001; solenoid valves or auxiliary relays requiring a drive current of 35 mA @ 24 V dc. Digital panel meter PDM-1000-1 or PDM-1000-2; zone alarm scanners NDS-91 and NDS-91-16X. Suitable for use with Approved automatic fire detectors such as Protectowire heat sensitive cable; 24 V dc batteries for 90 hours of standby power are available in 7.0-60 Ah capacities. The enclosure provided with this control results in a rating of NEMA 4, 4X, 12 and 13 for both single and two door enclosures. (See also AUTOMATIC RELEASES FOR PREACTION AND DELUGE SYSTEMS and HAZARDOUS LOCATION ELECTRICAL EQUIPMENT.)

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