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 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.

Automatic Releases for Extinguishing Systems and Other Fire Protection Equipment

The function of a release system is to cause, mechanically or electrically, a desired operation to be performed in case of fire. The releases listed are actuated automatically by FM Approved fire detection devices. If electrically operated for extinguishing system release, provision for at least 24 hours of standby power is required and means for manual operation should also be provided.

FM Approved releases are also used to operate fire protection equipment such as fire doors, ventilation and blower systems, hatches, dip tank covers and drain valves, motor stops, dampers and valves controlling hazardous liquids

See AUTOMATIC RELEASES FOR PREACTION AND DELUGE SPRINKLER SYSTEMS.

ARIES NETLink

ARIES NETLink programmable analog addressable fire alarm control system. The main control board with operating software Rev. 1.0.X has two (Class A) Style 6, 7 or (Class B), Style 4 Signaling Line Circuits (SLC's) that communicate with up to 255 analog addressable devices each. The main control board also has two (Class A), Style Z or (Class B), Style Y Notification Appliance Circuits (NACs) rated 2.0 A (max.) @ 24 V dc. Two more configurable output circuits are located on the main control board. When configured as a notification appliance circuit, the wiring performance of the configurable output circuits qualifies as (Class A) Style Z, or (Class B) Style Y, rated 2.0 A (max) @ 24 V dc; otherwise, the output circuits are used for connection to initiator or solenoid based releasing devices, rated 2.4 A (max) @ 24 V dc. One un-powered Form C relay contact is provided for trouble conditions. Three programmable, un-powered, Form C contacts are also provided. One RS-485 communication circuit for connection to Approved remote user interface modules and annunciator-driver modules is also provided. A switching power supply w/PMU Module operating from either 120 V ac or 240 V ac, 50/60 Hz primary power, supplies 5.4 A @ 24 V dc to support the control and charge 24 V dc batteries. An optional second switching power supply may be used to provide an additional 5.4 A @ 24 V dc. Up to four PMUs and eight associated power supplies may be connected when the application requires up to 20A. The panel is provided with standby battery capacity up to 165 AH to supply the required 24 hours of standby. (See control panel description under LOCAL PROTECTIVE SIGNALING)

Company Name:	Kidde-Fenwal Inc
Company Address:	400 Main St, Ashland, Massachusetts 01721, USA
Company Website:	http://www.kidde-fenwal.com
Listing Country:	United States of America
Certification Type:	FM Approved

© 2007-2011 FM Approvals. All rights reserved.