

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.

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.

Cheetah Xi Fire Alarm Control Systems (Part No. 10-068)

Cheetah Xi Fire Alarm Control Systems (P/N 10-068). Programmable addressable systems consisting of P/N 10-2542 Cheetah Xi Controller with V4.00, within P/N 10-2541(R/G) enclosure with optional dead front 10-2519 (R/B/G), and power supply with transformers P/N 02-10881 (120 Vac) or P/N 02-10882 (240 Vac). Signaling line circuit RS485 meets (Class B) Style 3.5 when connected to the following Remote Display P/Ns: 10-2321, 10-2630, 10-2631, 10-2646. Cheetah Xi controls may be connected in a networking configuration utilizing Style 4 signaling line circuit RS485 to the following: Cheetah controls when Multi-Interface Module 10-069 or 10-2583 is installed; Cheetah Xi 50, CyberCat 254 & 1016, CyberCat 50 or additional Cheetah Xi controls when Ethernet Module P/N 10-074 or 10-2627 is installed. Multi-Interface Module 10-069 or 10-2583 communicates panel history to a Keltron or Epson printer. Optional P/N 10-2373 Zone Annunciator, P/N 10-2667 Twenty Zone Remote Annunciator Module, and P/N 10-1XX Intelligent Graphic Annunciator Panel. The Cheetah Xi with 10-2542 controller board provides two signaling line circuit (SLC) which meet NFPA Style 4, 6, or 7 wiring performance. A Supplemental Loop Module P/N 10-2473 adds two more SLC loops. Up to 254 addressable analog devices may be connected to each SLC for a total of 1016 devices. The following addressable devices are compatible with the CyberCat fire alarm control: Photoelectric Smoke Sensor p/ns 63-1052 or 63-1058; Photo/135F Heat Combination Sensor p/ns 63-1053 or 63-1059; 135-190°F Fixed Temp and Rate of Rise Heat Sensor p/ns 60-1039 or 60-1040 (detector spacing not to exceed 30 x 30 ft); Ionization Smoke Sensor p/ns 67-033 or 67-034 for use with 6" Sensor Bases p/ns 63-1054 or 63-1060, 4" Sensor Bases p/ns 63-1055 or 63-1061, 6" Sounder Base p/n 63-1064 or 6" Relay Base p/n 63-1063; Mini Monitor Modules p/ns 55-045 or 55-050; Monitor Modules p/ns 55-041 or 55-046; Non coded, dual action, addressable, manual pull stations with key-lock reset feature models 20-1063, 20-1064, rated 15 to 30VDC, 2mA max. semi-flush mount on standard single-gang, double-gang or 4" square electric box; NAC Supervise Control Modules p/n 55-042 or 55-047; Relay Module p/n 55-043 or 55-048; Releasing Control Module 55-043 or 55-048; Photo Duct Sensor Heads p/n 63-1057 or 63-1062; and Duct Detector Housing p/n 63-1056. Two notification appliance circuits (Class A or B) Style Y, or Z are provided. Each NAC is rated for 2.0 Amps output. RS232 circuit located on the controller communicates with the HLI/VESDA Interface Module Assembly P/N 10-2277 connected to a VESDA Laser PLUS Detector (Software Version 2.09.00), VESDA Laser Compact Smoke Detector (Software Version 3.01.00) and/or VESDA Laser Scanner (Software Version 2.14.03). Up to 128 Cheetah Xi controllers of any combination can communicate with one another when the Network Card p/n 10-2482 or Fiber Optic Network card 10-2624 is installed. Either network card can be wired in a Class B, Style 4 or Class A, Style 6 or 7 configuration. Optional modules for use with the Cheetah Xi include p/n 10-2204 RM4 Relay Module which provides 4 SPDT programmable relays rated 30 V dc @ 2A or 110 V ac @ 0.5A. The power supply provides a 6 amp, 24 V dc output to the control. This can be expanded to a 12 amp, 24 V dc output when p/n 10-2474 Supplemental Power Supply is connected. 24 V dc batteries rated 18-75 AH are available to provide 24 (or 60 for auxiliary signaling) hours of emergency operation (See also CENTRAL STATION, REMOTE STATION, AUTOMATIC RELEASES FOR EXTINGUISHING SYSTEMS AND OTHER FIRE PROTECTION EQUIPMENT, and AUTOMATIC RELEASES FOR PREACTION AND DELUGE SPRINKLER SYSTEMS.)

Company Name:	Fike Corporation
Company Address:	704 South 10th St, Box 610, Blue Springs, Missouri 64015, USA
Company Website:	http://www.fike.com
Listing Country:	United States of America
Certification Type:	FM Approved