

## 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.

## 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.

### HCVR-3

HCVR-3 Fire Alarm Control Panel and Release is a three zone conventional control panel. (See descriptions under LOCAL PROTECTIVE SIGNALING). The releasing devices are to be connected to the following panel Class B releasing terminals: "Mode Select", "Man. Release", "Abort", "Rel Press Switch", "Exting" and "Low P Switch". Each releasing output is supervised via an end of line resistor. The solenoid release circuit ("Exting" terminal) is rated 1 Amp. The HCVR Abort Switch (model HCVR-AS-R) is required for the agent release operation: it connects to the "Abort" terminals of the release. A Sequential Activator HCVR-SQA(up to 20) may be connected to the solenoid releasing circuit for canister activation.

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