

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.

Alarm Signal Initiating Devices

Alarm signals are initiated either automatically or manually. Automatic detectors respond to changes in characteristic phenomena associated with fire or other emergency conditions.

Fire Detection, Flame-Actuated

Flame-actuated detectors respond to a radiant energy of flame, sparks or glowing embers. Response may be in milliseconds; however, alarm initiation may be time-delayed up to 30 seconds, as indicated.

RED1-ST, -E1, -E2, - E3, -E4, -420, -WST Multi Spectrum Flame Detectors

RED1-ST, -E1, -E2, - E3, -E4, -420, and - WST Multi Spectrum Flame Detectors (Firmware P/N 8000-0002). For 15 to 32 V dc operation via connection to a compatible FM Approved control panel providing separate circuits for power and initiating circuits; NEMA 4X enclosure for indoor or outdoor use in ambient temperatures from -40° to 185°F (-40° to 85°C); Explosion proof detector housing is suitable for use in Class I, Divisions 1 and 2, Groups B, C and D; Class II/III, Divisions 1 and 2, Groups E, F and G hazardous locations. (See also HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT category in separate Electrical Equipment volume.)

Company Name:	Sierra Safety Technology
Company Address:	Box 816, Minden NV 89423, Nevada 89423, USA
Company Website:	Not Available
Listing Country:	United States of America
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