

obstructions, air movement, or the authority having jurisdiction. When Protectowire is used to activate sprinkler systems, special Factory Mutual (FM) spacing guidelines may also be applicable to the specific hazard protected. It is mandatory that engineering judgment be applied in determining final detector location and spacing.

In general, the use of Protectowire in any initiating device circuit, is limited to coverage of a specific hazard or area. Copper wire, of an approved type, with a minimum conductor size of 18 AWG, shall be installed from the control panel out to the hazard area where it is then connected to the beginning of the Protectowire portion of the circuit. The Protectowire portion of each initiating circuit shall begin and terminate at each end in an approved zone box or end-of-line zone box. Strain relief connectors, Model SR-502, shall be installed in all zone boxes where Protectowire enters or exits the enclosure, in order to hold the cable securely.

Installation Accessories

A comprehensive range of mounting and installation accessories are available for the installation of Protectowire Linear Heat Detector. These include several types of clips, straps, drive rings, beam clamps, cable standoffs, connectors and zone boxes. Their proper use assures a neat and reliable installation. Only installation hardware supplied or approved by The Protectowire Company should be used.

Messenger wire is also available for any model Detector on special order. It consists of high tensile strength stainless steel wire, which is wound around the Detector at the rate of approximately one turn per foot. It is a carrier or support wire which is designed to

simplify the installation of the Detector in areas where mounting is difficult due to the lack of appropriate support structures or mounting surfaces. When using messenger wire to support the Detector, turnbuckles and eyebolts must be employed at each end of a run to place tension on the support wire. The maximum Detector run length between turnbuckles should not exceed 250 feet (76m) and the wire must also be supported with approved intermediate fasteners at intervals ranging from 15 feet (4.5m) to 50 feet (15m) depending upon the application. Outdoor messenger wire installations present additional challenges due to environmental factors such as snow loads, ice build-up or wind. Increased detector support must be provided by using additional intermediate fasteners with closer spacing in all outdoor installations. When ordering messenger wire configurations, add suffix "-M" to the Protectowire model number.

All models of Protectowire Linear Heat Detector have the same size conductors and are readily spliced together with common tools, by means of PWS Splicing Sleeves or PWSC Splicing Connectors. These devices are designed for this specific purpose and are the only approved methods of splicing the Detector.

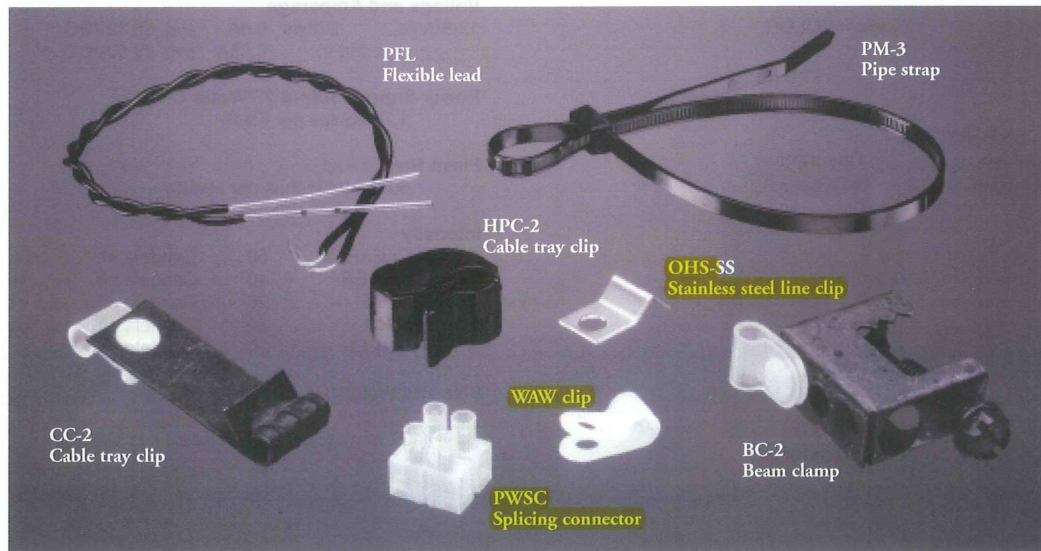
System Capabilities

Protectowire Linear Heat Detector is a component of a complete family of systems manufactured by The Protectowire Company — a leader in fire detection for over sixty-five years.

Protectowire fire detection systems provide a complete single source solution for meeting any fire defense need, from hazardous area detection to auxiliary equipment shutdown, and automatic extinguishing release.

Accessories

The Protectowire Company offers an assortment of fasteners and splicing devices to facilitate installation for both standard and special applications. Full details are available upon request.



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