

Intelligent Ionization Detector

The low-profile Advanced Intelligent Ionization Detector, with a built-in dedicated microprocessor, offers a broad range of capabilities to suit any commercial, industrial, or institutional application. Distinguished by its red dual alarm LEDs which illuminate red during an alarm, the detector provides a complete 360 ° view of device status. The detector's dual-alarm LEDs can also be programmed for flashing during quiescent mode.

The Intelligent Ionization Detector incorporates a unique industry method of addressing the detector. Each detector is individually addressed through its associated base by a patented address ("XPerT") card. The address is quickly and easily set by removing "pips" on the XPerT card according to a chart supplied with each base. Once the address is set on the XPerT card, it can be slid into place and locked into the detector base. By addressing the detector at the base rather than internally to the detector, the all-too-common errors associated with detector removal and maintenance are eliminated.

Designed to adapt to changing environments and protect against unwanted false alarms, the response characteristics of the Intelligent Ionization Detectors have been carefully set to comply with the stringent requirements of UL 268 and NFPA 72. Each detector is continuously monitored and tested for proper sensitivity and operation. If a problem is detected with either the device's sensitivity or proper operation, a trouble or maintenance signal is reported back to the fire alarm control panel. Also, the detector will compensate for any sensitivity drift of the initial programmed response/ sensitivity value due to environmental contamination and/or dust buildup. Each detector will maintain the initially set sensitivity at a constant level even when the chamber is severely contaminated. When compensation levels exceed normal values, a maintenance signal will be generated.

In addition to the detector's superior false alarm reduction features, each detector is capable of being field programmed for one of five response/sensitivity modes (see Table 1). Response modes correspond to unique response behaviors of a detector and the type of environment it is protecting, which can be broadly related to the characteristics of a fire. The detector response modes relate to different combinations of smoke sensitivity characteristics and transient rejection/stabilization times (see Table 2). Response mode 1 is more sensitive than response mode 5. Detectors set to response mode 1 would be for environments in which sources of unwanted alarms are rare. Response mode 5 set detectors would be suitable for more dusty or smoky environments (i.e.: factory, light industry areas). Response mode 3 (default programmed) would be the mid-sensitivity level used for most normal ionization detector applications.



Features

- Patented XPerT Detector Base Addressing
- Built-in Dedicated Microprocessor
- Five Selectable Response/Sensitivity Modes
- Ten 7-Day Response/Sensitivity Mode Timers
- Sub-Addressing of Ancillary Functions
- Dual-Alarm LEDs with 360 ° View
- Detector to Base Locking Mechanism
- Plastic Dust Cover for Construction Protection

Listings and Approvals

- ETL ANSI/UL 864 Listed: 101564744NYM-001
- UL file: UOXX.S5022 / ML file: S24459
- CSFM Approved: 7271-1713:104
- NYC MEA: 294-95-E-4

