

# RACK FIRE SUPPRESSION SYSTEM (RFS)



Modular Integrated

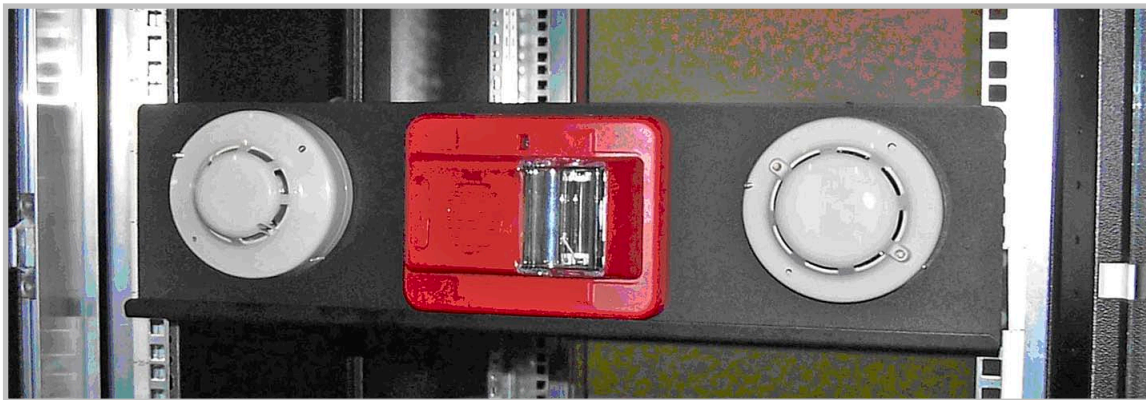


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## FIRE DETECTION AND SUPPRESSION FOR ENCLOSED COMPUTER RACKS

The hardware and software housed in a closed architecture stand-alone computer cabinet represents thousands of dollars of investment. If a fire should occur in this sealed cabinet, the building system may not pick up this fire condition until major hardware and software damage has occurred. The **RACK FIRE SUPPRESSION SYSTEM (RFS)** has been designed to monitor the conditions within the cab-

inet. If Products of Combustion are detected by either the Photo Electric or Ionization Detectors, the front-mounted Strobe/Horn will provide visual and audible notification of a fire condition. Upon detection by the second detector, the system will discharge FE25 Clean Suppression Agent within the enclosed space to suppress the fire. The RFS system is compact, taking up a space of only three rack units.



THE RFS (RACK FIRE SUPPRESSION) SYSTEM MOUNTS IN A 3-U SPACE

### THE RFS SYSTEM INCLUDES THE FOLLOWING:

- Compliant with UL864 – 9th Edition Standard
- Compliant with NFPA 72 and NFPA 2001
- Battery Back Up with up to 90 hours of standby power
- Redundant smoke detection/ Photoelectric smoke detection/ Ionization smoke detection
- Strobe and horn annunciation for trouble and discharge
- Field-mountable manual release
- FM, UL, CSFM and MEA Listed and/or approved
- Network monitoring of suppression discharge, trouble and rack ambient temperature
- EACRO-25 (HFC-125) Clean Agent protection system. EACRO-25 is :
  - Zero Ozone Depleting Potential (ODP)
  - Environmentally Safe
  - Electrically Non-Conductive
  - Colorless and Odorless
  - Leaves No Residue
- Patent Pending
- Physical Data: 18.75" w x 29" D x 5" H Weight 42 Lbs. 120/1/60 VAC
- Back Up Cooling Fan Lock Out



IONIZATION SMOKE DETECTOR  
Model 67-1033



PHOTOELECTRIC SMOKE DETECTOR  
Model 63-1024

# RFS COMPONENTS

## FIKE SHP PRO FIRE DETECTION/SUPPRESSION SYSTEM

- Configurable Dip Switches
- Disable Mode for audible circuits, release circuits, and relays
- Alarm and trouble resound
- Selectable 120 or 240VAC power input
- Optional batteries for up to 90 hours of standby power
- Removable door for easy installation
- Up to two Style B initiating device circuits capable of sequential alarm, cross-zone, or single detector release operation with an overall system capacity of 50 detectors (25 when both releasing circuits are used)
- Three Style B initiating device circuits capable of monitoring closed contact devices
- Optional Class A module that converts all five initiating device circuits to Style D wiring operation
- Three Style Y notification appliance circuits rated at 2.0 amps each
- One Agent Release circuit with maximum of 6 ARM III's and/or depending upon model of SHP PRO ordered (one solenoid release circuit which can activate one 24V or two 12V solenoids)



## IONIZATION SMOKE DETECTOR

### DESCRIPTION:

The 67-1033 can be used in all areas where Ionization Smoke Detectors are required. The responsive, yet highly-stable operation allows the 67-1033 to fit in a wide range of uses. It can be used in areas where early warning of superheated or flaming combustibles is expected.

### FEATURES:

- Low profile, 1.8" high (with base)
- 2- or 4-wire base compatibility; relay bases available
- Highly stable operation, RF/Transient protection
- Low standby current: 40mA at 24 VDC
- Two built-in power/alarm LEDs for 360° viewing
- Non-directional smoke chamber
- Vandal-resistant security locking feature
- Built-in magnetic detector sensitivity test feature. Meets NFPA 72, Chapter 7, Inspection, Testing and Maintenance requirements
- Compatible with Fike 63-1024 photoelectric detector
- Backward compatible with Fike 63-1008 and 67-1016 smoke detector

## PHOTOELECTRIC SMOKE DETECTOR

### DESCRIPTION:

The 63-1024 can be used in all areas where Photoelectric Smoke Detectors are required. The wide range smoke chamber makes the 63-1024 well suited for fires ranging from smoldering to flaming fires. The 63-1028 is a non-listed photoelectric smoke detector. The detector is identical to the 63-1024, except the 63-1028 does not have the magnetic test reed switch, making it suitable for use in areas of high magnetic fields such as MRI's. The 4" and 6" smoke detector bases and the 63-1012, two-wire auxiliary relay base may be used with the 63-1024 and 63-1028. Current interchangeable/compatible devices are the 67-1033 ionization detector and the 60-1029 and 60-1030 heat detectors.

### FEATURES:

- Low profile, 1.8" high (with base)
- 2- or 4-wire base compatibility, relay bases available
- Highly stable operation, RF/Transient protection
- Low standby current, 45uA at 24VDC
- Two built-in power/sensitivity supervision/alarm LEDs
- Non-directional smoke chamber
- Vandal resistant security locking feature
- Built-in magnetic go/no go detector test feature
- Removable smoke labyrinth for cleaning or replacement
- Automatic Sensitivity window verification function meets outlined requirements in NFPA 72, Chapter 7, Inspection, Testing and Maintenance
- Compatible with 67-1033 ionization detectors
- Backward compatible with Hochiki SLK and SIH detector bases

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