

Fire Sentry Flame Detection for the Finishing Industry from Honeywell Analytics

DASTEC S.R.L.

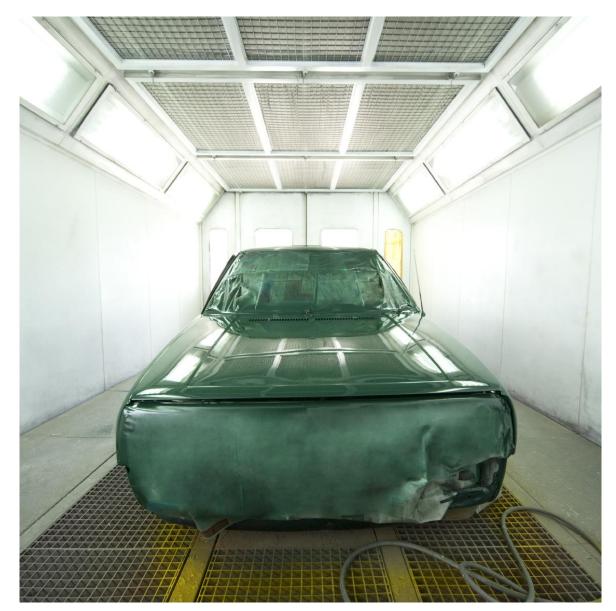
Distribuidores Autorizados

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Fire Sentry FS10-R Detector and FS System 10

- High-speed, microprocessor-based fire detection (Fire Sentry FS10-R) and process control system (FS System 10) specifically designed for liquid spray paint and powder coating applications
- All other manufactures of flame detectors use their standard UV, UV/IR or IR3 for finishing applications



Products and Applications

Fire Sentry FS10 Detector





Multi-Spectral Electro-Optical Infrared
 Flame Detector

- Near Band IR: 0.7 - 1.1 micrometers

- Wide Band IR: 0.7 - 3.0 micrometers

Visible: 400 – 700 nanometers

- Senses the blackbody radiant heat emitted by a fire
- Does not rely on the unpredictable CO₂ spike at 4.3µ



 Responds to fires within 500 milliseconds as required by NFPA 33 and does not false alarm to non-fire radiant energy sources.

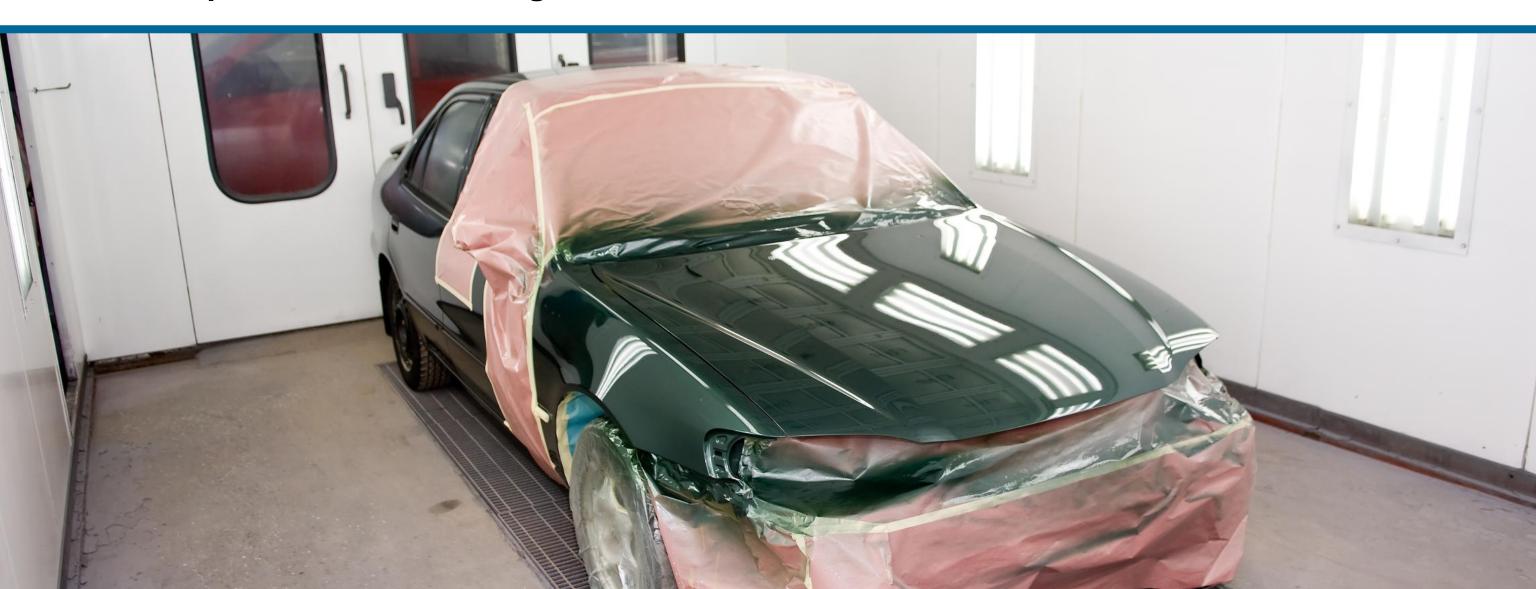
 Air shield and disposable protective cover provide protection from contamination on the lens, substantially reducing the maintenance required for the cleaning of the flame detector lens.



Fire Sentry FS10 Applications

- Automotive Electrostatic Paint Spray Lines
- Liquid Paint & Powder Coating Spray Lines
- Liquid & Powder Coating Booths

- Paint Storage and Mixing
- Aerosol Filling Applications



Fire Sentry FS10 Detector



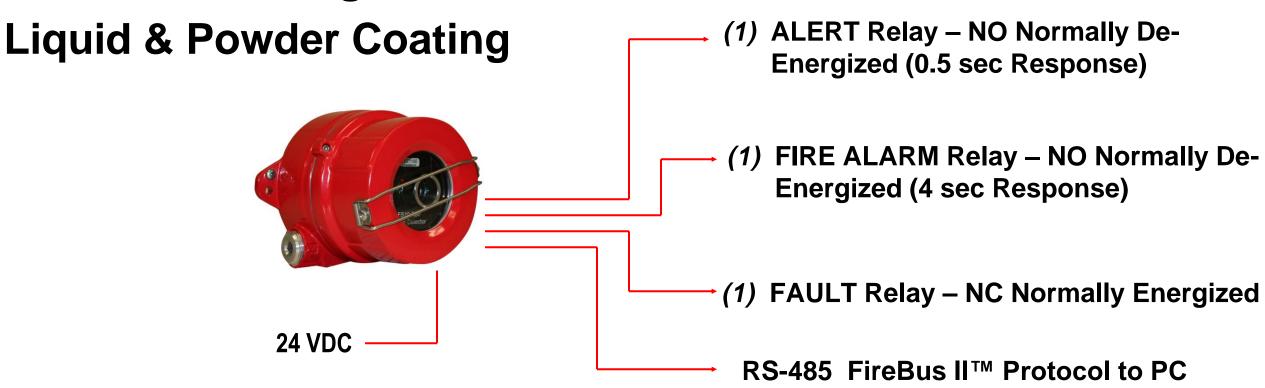
- For use with electrostatic powder and liquid paint applications
- TWO different SYSTEMS
 - Standalone or Unitized Fire Sentry FS10-R detector
 - Fire Sentry FS10 Wall-Mount system



Fire Sentry FS10-R Unitized

Honeywell



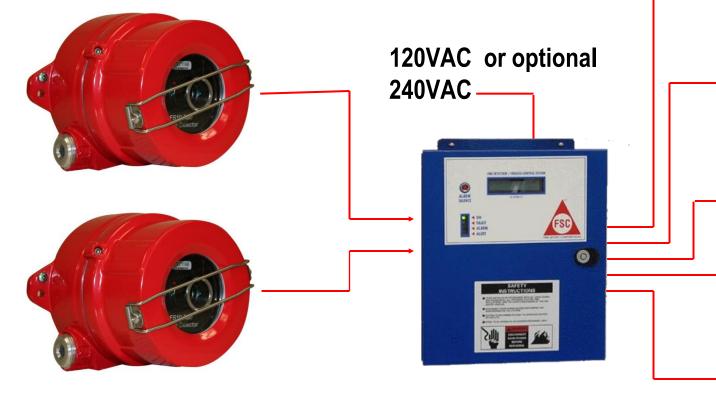


Note: Available detector sensitivity options: 15, 30, or 45 ft.

Fire Sentry FS10 Wall-Mount Controller

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(1) ALERT Relay – NO/NC Normally De-Energized (0.5 sec Response)

(1) Fire Alarm Relay – NO/NC Normally De-Energized (3-5 sec Response)

(1) FAULT Relay – NO/NC Normally Energized

(3) PROCESS SHUTDOWN Relays – NO/NC Normally Energized

RS-232 PC Communication

Note: Detector sensitivity options: 15 or 30 ft.

Fire Sentry FS10: Two-Stage Response

- 1st Stage: Alert / Early Warning
 - Response to a "fireball" type fire, signals to shutdown spray guns
 - Alert: 0.3 sec. response with a 15 ft. sensitivity
 - -FEW (Fire Early Warning): 0.5 sec. with a 7.5 ft. sensitivity
 - Relay Output: 1 NO De-Energized
- 2nd Stage: Fire Alarm
 - Response to a burning fire, or if fireball does not self-extinguish, signals to take an action or initiate suppression discharge
 - Alarm: 5 sec. response with a 30 ft. sensitivity
 - Relay Output: 1 NO De-Energized



Fire Sentry FS10 Features

- Built-in automatic self-test includes a through-thelens Optical Integrity test feature
- Detector enclosure rated for Class I, Division 1 & 2, Groups B, C, D
- Detector Sensitivity Options: 15, 30 or 45 ft. to a 1
- sq. ft. gasoline fire
- Real-Time Clock
- Spectral Data: Six FirePics™
- Event Log: 200 Events



Fire Sentry FS10 Features

- FirePic[™] Recorded pre-fire spectral data stored in the non-volatile memory, 6 events each 8 seconds in duration
- Event Log History log of the recent 200 Events (alarms, faults, resets) with date and time stamp
- Interfaces with approved fire alarm panels and control systems
- Low power consumption: 60 mA @ 24
 VDC normal operation



Fire Sentry FS10 Accessories

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 A proven and effective air shield device (shown here) developed for FS10 detectors and used in Liquid and Powder Coating Applications

 Specially designed clear plastic disposable protective covers simply snap on and off the detector, protecting the lens from contamination from paint over-spray, eliminating unscheduled maintenance required to clean the detector lens.



Fire Sentry FS10 Typical Usage

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Small Paint Booth (up to 10 ft.)

- 1 FS10-R Unitized Detector, or
- 1 Card Controller + 1 Detector, or
- 1 Wall-Mount Controller + 1 Detector

Large Paint Booth (10-36 ft.)

- 2 FS10-R Unitized Detectors, or
- 2 Card Controllers + 2 Detectors, or
- 1 Wall-Mount Controller + 2 Detectors



Fire Sentry FS10 Typical Usage

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Large Powder Coating Facilities

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Automotive Liquid Spray Paint Lines



