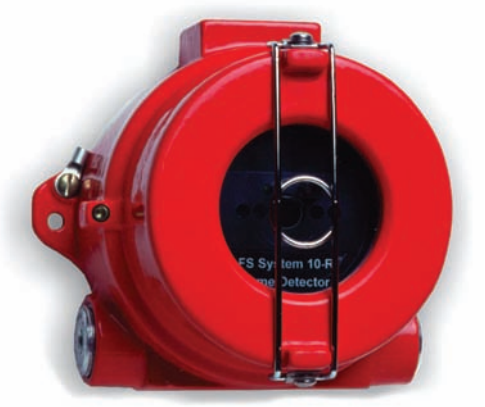
Firesentry FS10-R

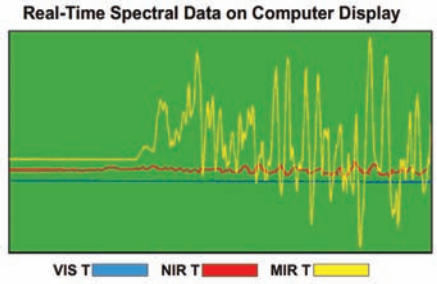
MULTI-SPECTRAL ELECTRO-OPTICAL UNITISED FLAME DETECTOR

Intelsec

Applications Include

- Liquid paint spray lines
- Powder coating booths
- Diesel generators & Gas compressors
- Aerosol filling





Features

- Multi Spectral digital electro-optical infrared flame detector
- Meets requirements of NFPA 33
- Unique two-stage ALERT and FIRE ALARM response
- Immune to false alarms caused by arcs and corona discharges built in "through the lens" self-test
- Not sensitive to background radiant energy sources such as paint heaters
- Not affected by absorbing smoke or paint solvent mist in liquid paint spray booths
- Sees through paint, powder or oil residue on detector's lens
- Digital communications via RS485 interface Proven in worldwide applications
- FirePic™ retrieval of recorded pre-fire data
- SnapShot™ dynamic graphical display of what the detector sees

The Firesentry Model FS10-R Unitised is the next generation Multi-Spectral Electro-Optical flame detector designed specifically for liquid paint or powder spray booth applications. Based on the Model FS System 10, which has millions of successful spray booth operational hours, The FS10-R Unitised flame detector meets the need for a "stand alone" capability and complies with the NFPA 33 Standard.

The Wide Band Infra-red, Near Band Infra-red and Visible sensors, combined with advanced signal processing, provide optimum performance. High speed fire response with optional factory sensitivity settings and alarm outputs provide the best, proven solution to fire detection for the Finishing Industry.

Operation

The Model FS10-R Unitised detector is designed to operate with FSPB control panel or any other approved fire alarm panel. Coonection to the FSPB control panel is via RS-485 four wire digital communication. Interface with any other approved fire alarm panel is accomplished using the Detector's ALARM, ALERT and FAULT relays. When power is applied a self-test is automatically performed and the FAULT relay is energised to show that the detector has no faults. The front LED blinks every ten seconds to indicate normal operation.

In normal operation the continuous spectral data stream of information from the sensor array is analysed by the microprocessor. With two distinct relay outputs, the FS10-R provides and ALERT output for spray gun "fireball" type fires and if the fire continues a FIRE ALARM is declared in 4-5 seconds. The detector array stores all of the pre-fire spectral data from the sensor array in a non-volatile memory for retrieval and evalutation.

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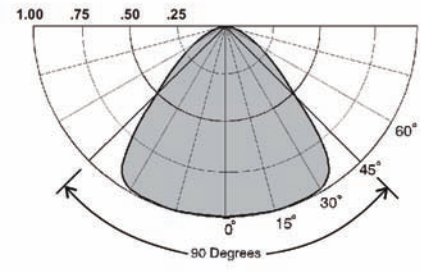
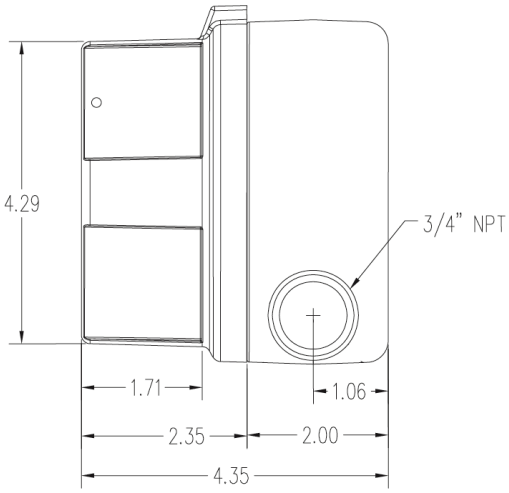
Specification

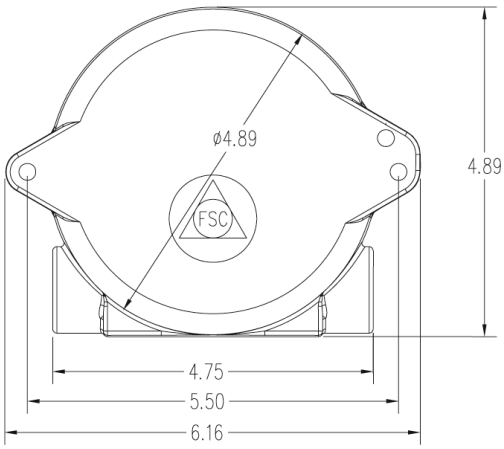
MAXIMUM SENSITIVITY



Field of view, horizontal and vertical



Model FS10-R - Side View



Model FS10-R - Back View

All dimensions in inches. This specification subject to change without prior notice

Sensitivity:	Factory set for 15 ft., 30 ft. and 45 ft Response to a 1 Sq. ft. gasoline pan fire
Response times: Alert:	0.3 seconds Fire Early Warning: 1 second Fire Alarm: 4 Seconds
Field of view:	90° horizontal and vertical
Spectral sensitivity:	Wide band infrared: 0.7 to 3.5 micrometers Near band infrared: 0.7 to 1.1 micrometers Visible: 400 to 700 nanometers
Input power:	24V DC nominal (18 to 28V DC)
Power consumption:	60mA normal operation, typical 75mA alarm condition, typical (Excluding analogue output)
Output (Relay Version) :	Alert/Early Warning: SPST, N.O. Fire Alarm: SPST, N.O. Fault: SPST, N.C. with power ON
Output (Analogue Version):	Fault: 0mA Normal Operation: 4mA Alert: 12mA Alarm: 20mA
Operating Temperature :	-40° to +122° F (-40° to +85° C)
Humidity Range:	10% to 90% RH, non-condensing
Weight:	3.8 lbs (1.7 kg)
Housing:	Copper free aluminium, powder coated. NEMA 4 Rated
Conduit entry:	Two 3/4" NPT
Electrical Classification:	Explosion Proof Class I, Div. 1 & 2 Groups B, C, & D Class II, Div. 1 & 2, Groups E, F, & G Class III
Mounting:	Swivel Bracket Assembly
Warranty:	One year from factory shipping date.

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