Fire Sentry SS3 Fire and Flame Detectors

Honeywell

**Digital Multi-Spectrum
Electro-Optical
Fire and Flame Detectors**

Fire Sentry SS3 Detectors

Features:

- Multi-Spectrum™ senses energy in the ultraviolet, visible and wide band Infrared™
- High False alarm immunity
- Detects hydrocarbon and non-hydrocarbon fires
- Microprocessor based algorithms: FirePic™ and Tri-Mode Plot™
- Wide field-of-view
- FS2000™ System compatible or stand alone operation
- Compatible with approved fire alarm panels

Applications include:

- Warehouses
- Convention centers
- Computer rooms
- Hospitals
- Telephone switching stations

The Fire Sentry SS3 fast-reacting, Ultraviolet (UV), wide band Infrared (IR) and visible spectral band electro-optical digital fire and flame detectors are designed to alarm on all types of fires. They have an alarm range of 9 m (30 ft) for a 0.1 m² (one square foot) gasoline reference fire with a 120° circular field of view coverage.

To eliminate common nuisance false alarms that occasionally occur with UV-only, IR-only, Dual IR or Dual Mode UV/IR detectors, the Fire Sentry SS3 detectors' FireLogic signal processing requires that UV, visible and wide band IR radiant energy all be evaluated before declaring a fire. The smart detector utilises real-time signal processing algorithms that are optimised to alarm on all types of fires, while virtually eliminating the possibility of false alarms.
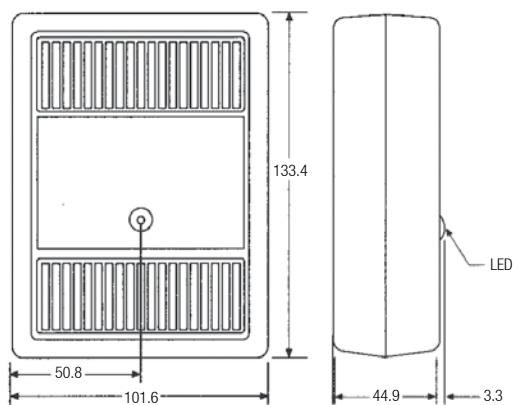
The Fire Sentry SS3 detectors perform the same whether they are connected to the FS2000 Fire Early Warning System (with CM1-A Controller and FireBus) or whether they operate in the stand-alone mode. The only difference between FS2000 System model and the stand-alone models is how each is wired.

The Fire Sentry SS3 detectors are available in latching (Fire Sentry SS3-A) and non-latching (Fire Sentry SS3-AN) models.
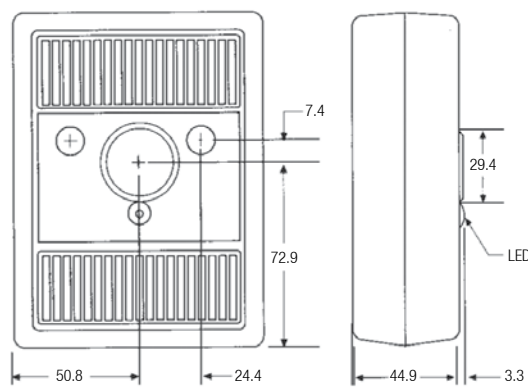
General Specification

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Sensitivity	0.1 m² (1 sq. ft.) gasoline fire at 9 m (30 ft.) within 5 seconds
Response time	2-5 seconds to 0.1 m² (1 sq. ft.) of gasoline fire at 9 m (30 ft.)
Field-of-view	SS3-A (UV/IR): 120 degrees cone of vision (±60 degrees from on axis)
Spectral sensitivity	Ultraviolet: 185 to 260 nanometres Wide Band Infrared: 0.7 to 3.5 micrometres Visible: 400 to 700 nanometres
Input power	24 Vdc nominal 12V minimum, 28V maximum
Power consumption	18 mA normal operation, typical 55 mA alarm condition, typical
Output relays	**Fire Alarm Relay:** NO & NC contacts Latching / Non-Latching, switch selectable Relay contact ratings: 0.5 A at 120 Vac, 1.0 A at 24 Vdc, non-inductive Fire alarm relay is de-energised during normal operation
Operating temperature	Operation: 0°C to 77°C (32°F to 170°F) Storage: -20°C to 85°C (-4°F to 185°F)
Housing	NEMA 1 high impact ABS; general purpose indoor use only
Weight	0.340 kg (12 ounces)
Dimensions	100 mm x 133 mm x 45 mm (4 in. x 5.25 in. x 1.75 in.)
Mounting	Installs on a wall, ceiling, etc. with the included mounting bracket or on two properly spaced panhead screws using the Detector's double keyhole
Warranty	One year from factory shipping date
Certification	CE

General Dimensions

SS3-A and SS3-AN Front

SS3-A and SS3-AN Side

Our Product Range

Honeywell

Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

» Detection of flammable, Oxygen and toxic gases (including exotics)
» Innovative use of four core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
» Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
» Cost effective regulatory compliance solutions

Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces. These include:

» Detection of flammable, Oxygen and toxic gases
» Single gas personal monitors – worn by the individual
» Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
» Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

» Full technical support
» Expert team on hand to answer questions and queries
» Fully equipped workshops to ensure quick turnaround on repairs
» Comprehensive service engineer network
» Training on product use and maintenance
» Mobile calibration service
» Customised programmes of preventative/corrective maintenance
» Extended warranties on products

Find out more

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We Save Lives

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