FIRE & GAS DETECTION
TECHNOLOGIES INC.

Meet the new FlameSpec
FAMILY

An expanded range of high performance Triple IR (IR3) & UV-IR flame detectors with optional integrated High Definition IP Camera

www.fg-detection.com

FlameSpec Flame Detectors with integrated High Definition video

An integrated High-Definition (HD) IP Camera allows clear imaging of fire and people at 100 ft. (30m). All fire events are recorded and stored in the detector for local or remote download and analysis. Continuous HD video can also be streamed live to a control room and recorded on a Network Video Recorder (NVR).

FlameSpec IR3-HD

Model FLS-IR3-HD

Triple IR (IR3) Flame Detector with HD video detects hydrocarbon fuel and gas fires at long distances and provides the highest immunity to false alarms with its triple spectrum design.

The unmatched detection times and distances are:

- 40ms for fast fire burst or explosion
- 1.5s for 1 ft^2 (0.1m^2) pan fire at 0–100 ft. (0–30m)
- 4s for 1 ft^2 (0.1m^2) pan fire at 100–230 ft. (30–70m)

Model FLS-IR3

Same as above but without HD camera capabilities

FlameSpec UV-IR-HD

Models FLS-UV-IR-HD / FLS-UV-IR-F-HD

A UV and IR detector, comprising an IR sensor that operates at a wavelength of 2.7 µm and a solar blind UV sensor, the FLS-UV-IR-HD detects hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires. The UV sensor has a special logic circuit that prevents false alarms from solar radiation.

- 5ms for fast burst of explosion
- 1.5s for 1 ft^2 (0.1m^2) pan fire at 0–50 ft. (0–15m)
- Up to 3s for 1 ft^2 (0.1m^2) pan fire at 50–100 ft. (15–30m)

Model FLS-UV-IR-F-HD does not see hydroxyl and hydrogen fires and utilizes an IR sensor operating at a wavelength of 4.0–5.0 µm

FlameSpec IR3-H2-HD

Model FLS-IR3-H2-HD

Detects 'invisible' hydrogen (H2) gas fires at long distances and provides the highest immunity to false alarms with its triple spectrum design. The detector performance has also been independently assessed for its response to fires from blends of natural gas and hydrogen. A special filter in front of the HD camera allows you to see the 'invisible' fire.
The IR3-H2-HD is fast, responding in:

- 40ms for fast fire burst or explosion
- 1.5s for 32" (0.8m) hydrogen fire at 0–66 ft. (0–20m)
- 4s for 32" (0.8m) hydrogen fire at 66–100 ft. (20–30m)

Models FLS-UV-IR / FLS-UV-IR-F

Same as above but
without HD camera capabilities

Model FLS-IR3-H2

Same as above but
without HD camera capabilities

About Us

We are committed to respond to the market requirements for improved performance and more reliable flame detection products.

That includes:

- Highest immunity to false alarms
- Optimized units for aircraft hangars, helidecks and tanker loading racks
- Units comply with NFPA 33 response
- Operation in all weather conditions
- Reduced cost of ownership
- Expert technical & application support

Approvals

Explosion proof
ATEX: II 2 G D
Ex db IIC T5 Gb or Ex db eb IIC T5 Gb and Ex tb IIIC T95°C Db -55°C<Ta<75°C Ex db IIC T4 Gb or Ex db eb IIC T4 Gb and Ex tb IIIC T105°C Db -55°C<Ta<85°C

IECEx, INMETRO & PESO

Ex db IIC T5 Gb -50°C≤Ta≤75°C
Ex db IIC T4 Gb -50°C≤Ta≤85°C

FMus & FMc

Class I, Div. 1, Groups B, C & D; T4
Class I, Zone 1, AEx/Ex db IIC T4 Gb
T4 -50°C≤Ta≤85°C
T5 -50°C≤Ta≤75°C

EAC CU TR

1Ex d IIC T5 Gb or 1Ex de IIC T5 Gb and Ex tb IIIC T95°C Db -55°C≤Ta≤75°C 1Ex d IIC T4 Gb or 1Ex de IIC T4 Gb and Ex tb IIIC T105°C Db -55°C≤Ta≤85°C

Performance
ANSI FM 3260
EN 54-10*

Functional safety
Complies to SIL2, per IEC 61508**

MED
DNVGL Certificate Number MED-B-00006AM**

*Not FLS-IR3-H2 or FLS-IR3-H2-HD
**Units available upon request

Version 3 March 2022

FIRE & GAS DETECTION TECHNOLOGIES INC.

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