



TELEDYNE GAS AND FLAME DETECTION
Everywhere you look™

Meet the FlameSpec

FAMILY



We are committed to detect and see,
with integrated CCTV, every possible type
of fire scenario!

FlameSpec Flame Detectors with integrated High Definition video

High-Definition (HD) Camera allows clear imaging of fire and people at 100 ft. (30m) distance. Video recording of 1 minute pre-event and up to 3 minutes post-event. When connected to a DVR/ NVR this allows the rescue team to be aware of the exact situation before entering the hazardous area



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 ft² (0.1m²) pan fire at 0-100 ft. (0-30m)
- 4s for 1 ft² (0.1m²) 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 2.0-3.0 μm and a UV solar blind 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 ft² (0.1m²) pan fire at 0-50 ft. (0-15m)
- Up to 3s for 1 ft² (0.1m²) pan fire at 50-100 ft. (15-30m)

Model FLS-UV-IR-F-HD does not see hydroxyl and hydrogen fires and IR sensor that operates at a wavelength of 4.0-5.0 μm



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

Same as above but without HD camera capabilities



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 IR3 can detect in 40ms for fast burst of explosion and just 1.5s for 32" (0.8m) hydrogen fire at 0-66 ft. (0-20m) and 4s for 32" (0.8m) hydrogen fire at 66-100 ft. (20-30m).

- 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)



Model FLS-IR3-H2

Same as above but without HD camera capabilities

About Us

We offer the Industry a complete range of the next generation flame detectors. That is: Faster, improved false alarm immunity. Incorporating Data logger and HD Video in the range of UV/IR and IR3 detectors.

The objective of the company is to address the industry's needs and requirements to constantly improve its safety by increasing the performance and reliability of its detection systems.

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

Ex db eb IIC T5 Gb or Ex db IIC T5 Gb -50°C≤Ta≤75°C

Ex db eb IIC T4 Gb or Ex db IIC T4 Gb -50°C≤Ta≤85°C

FM & 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

Performance

ANSI FM 3260

EN 54-10 (pending)

Functional safety (pending)

SIL2, per IEC 61508

DNV GL (pending)

Standard DNVGL-CG-0339 for open deck locations

Temperature class D; Vibration Class A, B and C

EAC CU TR (pending)



AMERICAS
14880 Skinner Road
Cypress TX 77381
USA
Tel.: +1-713-559-9200
Fax: +1-713-893-6729

EMEA
ZI Est, Rue Orfila,
CS 20417
62027 ARRAS CEDEX, France
Tel.: +33-3-21-60-80-80 Fax:
+33-3-21-60-80-00

ASIA PACIFIC
Room 2722, No. 51 Jinzang Road,
Shanghai Free Trade Zone People's
Republic of China
Tel.: + 86-134 8229 505