



FACTSHEET:

ULTRA FL800 MULTI SPECTRUM INFRARED FLAME DETECTOR



WHAT IS IT?

Ultra FL800 is a multi spectrum infrared (MSIR) flame detector based on artificial intelligence recognition technology. The new Ultra FL800 is enhanced with wider field of view (FOV) and further detection range.

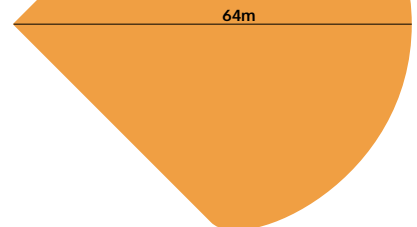
The Ultra FL800 can see typical fires such as those produced by alcohol, heptane, gasoline, jet fuels and hydrocarbons. The Ultra FL800 is highly immune to false alarms for non-flame signals which can be learnt and enhanced against specific interference sources in new environment.

COVERAGE COMPARISON

Conventional UV/IR detection



FL800 MSIR detection



WHY DO YOU NEED IT?

Multi Spectrum Infrared Sensor Array

- Increased range and wide field of view (FOV)
- Excellent false alarm immunity
- 3 individual LEDs of Green, Red and Amber for local display of Normal, Alarm and Fault operating conditions

Explosion Proof

- ATEX, IECEx
- FM Certified

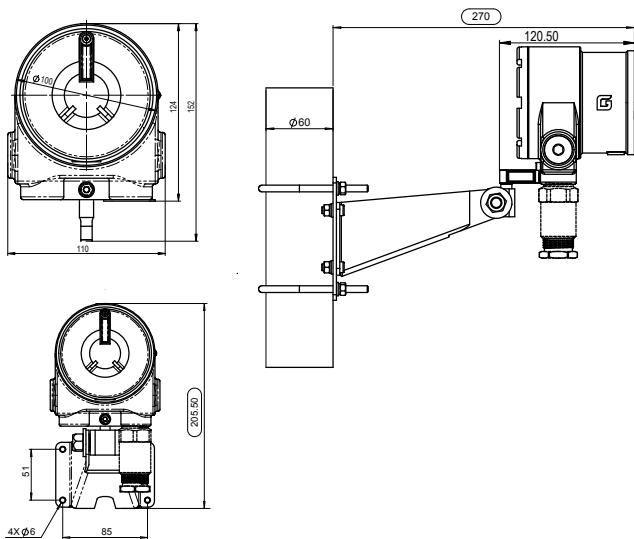
Performance Approved Detection

- Approved by FM according to FM3260 and EN54-10



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FL800 FLAME DETECTOR OUTLINE & MOUNTING DIMENSIONS



TECHNICAL KEY POINTS

Sensitivity Setting : High, Medium, Low, Extra Low
Extra Low sensitivity setting gives the FL800 a better immunity to false alarm in extreme environment

Separated Warning And Alarm Output Signal
Two levels of signalling output available to provide extended level of protection and prevention.

Continuous Optical Path Scanning
Keeps monitoring the permeability of the detector lens and makes sure the optical path is unblocked and detection result is reliable

Test Mode can be triggered with external test lamp
Use portable test lamp to simulate real fire without triggering the alarm and verify the FL800 is function properly for peace of mind of asset protection

PERFORMANCE SPECIFICATIONS

Spectral Range	2-5 microns (IR)
Maximum Range	65m
Typical Response Time	≤ 3s (at 30m with n-Heptane fire 0.1 square meter), ≤ 5s at 65m
Maximum Field of View	100° Horizontal , 90° Vertical

TECHNICAL SPECIFICATIONS

Input Power	20-36 VDC , 24 VDC @ 150mA (3.6W)
Analogue Signal	0-20 mA (500 ohms maximum), 3.5-20 mA (HART) Fault Mode: <1mA , Test Mode: 8mA ± 0.2mA , COPS Fault: 2mA ± 0.2mA Ready: 4mA ± 0.2mA , Warning: 16mA ± 0.2mA, Alarm: 20mA ± 0.2mA
Relay Contact Rating	0.2 5A @ 250 VAC, 2 A @ 30 VDC res.max
Baud Rate	4800, 9600, 19200, 38400 BPS
HART	HART 7, HART Device Descriptor Language AMS aware available
Operating/Storage Temperature	- 40°F to + 185°F (- 40°C to + 85°C)
Operating Humidity Range	0% to 95% RH, non-condensing
Housing	316 Stainless steel
Weight	2.5Kg
Cable Entries	Four entries 3/4 ins NPT
Warranty	2 years
Standard Configuration	Ultra FL800-1-1-1 (Four Infrared Spectrum, Analogue output , Explosion-proof)

CLASSIFICATION

Explosion-proof	ATEX/IECEx: II 2G Ex db IIC T5 / T6 Gb (Ta = - 40°C to + 85°C), II 2D Ex tb IIIC T100°C Db IP67 FM: Class I, Div I, Group B, C, D ; Class II, III, Div 1, Group E, F, G, - 40°C to + 85°C, IP67
SIL	SIL 2 Certified



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