

MINERVA® Marine

601F-M & 601FEx-M Conventional InfraRed Flame Detectors

Features:

- Unlike UV and UV/IR detection, not blinded by oil mist in machinery spaces
- Reduces cabling, no interface required
- No additional power source required
- Easy installation, uses a common plug in base for smoke and heat detectors
- Can be used on all vessels as fully marine approved



Standard or Intrinsically Safe ATEX approved

The 601F-M and 601FEx-M point type flame detectors form part of the 600 series of conventional detectors. The range includes heat, optical, ionisation and carbon monoxide detection technologies and with the addition of the 601F-M and 601FEx-M now encompasses infrared flame detection.

Both the 601F-M and the 601FEx-M are full featured solar blind flame detectors for enclosed use and boast a high degree of false alarm immunity. The standard unit is the 601F-M and it is designed for connection to a conventional zone of point type fire detectors that may include any mix of detection technologies. The 601FEx-M is an intrinsically safe version intended for use in hazardous atmospheres and must be connected via a suitable isolator or shunt diode safety barrier in a certified Intrinsically Safe system.

Ordering Information:

Stockcode	Description
■ 516.600.007	601F-M Conventional Flame Detector
■ 516.600.067	601FEx-M Conventional Flame Detector Intrinsically Safe
■ 517.050.017	5B 5" Universal Base
■ 517.050.610	MUBEx Base For 600/800Ex
■ 517.001.244	MTL5061 2 Channel Galvanic Isolator
■ 517.001.247	DX170 MTL5/7000 Enclosure
■ 592.001.012	T110 IR Test Source
■ 592.001.018	T110 Test Source Adapter

Mechanical

Detector Material:	FR 110 'BAYBLEND'
Dimensions:	108mm x 21.2mm
Weight:	- 601F-M 74g
	- 601FEx-M 108g

Electrical

Supply Voltage:	601F-M 18 – 32Vdc
	601FEx-M 18 – 28 Vdc
Quiescent current:	Typical 300 micro Amp
Alarm current:	8-30 mA

Intrinsic Safety Rating

Maximum Voltage for Safety (Ui):	28V
Maximum Current for Safety (Ii):	93mA
Maximum Power Input (Pi):	650mW
Equivalent Inductance (Li):	0
Equivalent Capacitance (Ci):	0

Hazardous Area

ATEX code: II 1 G EEx ia IIC T4

Environmental

Operating temperature: -20°C to +70°C

Operation below 0°C is not recommended unless steps are taken to eliminate condensation and hence ice formation on the detector.

Storage Temperature: -40°C to +80°C

Relative Humidity: 90% RH continuous (non-condensing) and up to 99% RH intermittent (non-condensing)

Performance

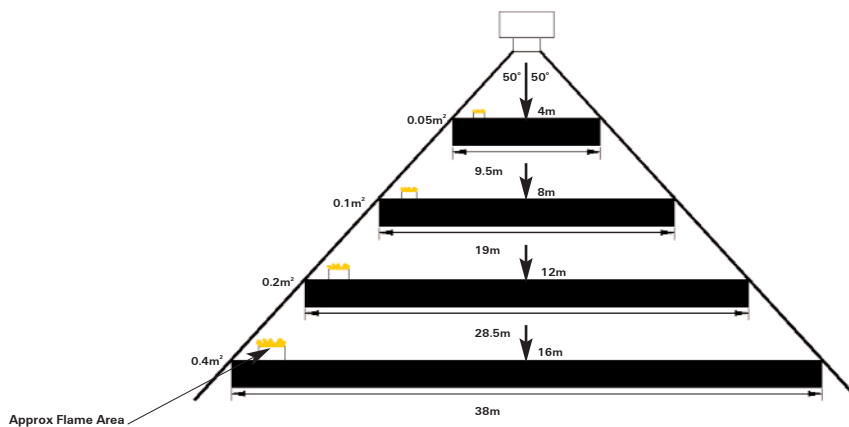
Range: 0.1 m² n-heptane at 20m
0.4 m² n-heptane at 50m

Field of View: 100°

Mounting Base

5B: 5" Universal Base

Connections: L -VE IN/OUT
L1 +VE IN
L2 +VE OUT
R Remote LED Drive -VE



Note 1: When the risk is a hot vibrating body the detector should be mounted securely using a suitably fabricated bracket at an angle or on a vertical surface to view the risk.

Note 2: Diagram not to scale