



## MINERVA® MX

### 601F & 601FEx Conventional InfraRed Flame Detectors

#### Features:

- Solar Blind for false alarm free operation
- Intrinsically safe or standard versions
- Fast response to flame
- Detect a 0.1m<sup>2</sup> fire at a range of 20m
- Discrete ultra low profile design
- Fits a standard detector base or functional base
- Integral alarm LED with 360 degree angle of view
- Use T110 infrared test source (With separate adaptor)
- Complies to EN54-10 for Flame Detectors

#### Standard or Intrinsically safe ATEX approved

The 601F and 601FEx 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 and 601FEx now encompasses infrared flame detection.

Both the 601F and the 601FEx are full featured solar blind flame detectors for indoor use and boast a high degree of false alarm immunity. The standard unit is the 601F 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 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.

## Mechanical

Detector Material	FR1 10 'BAYBLEND'
Dimensions	108mm x 21.2mm
Weight	- 601F 74g - 601FEX 110g

## Electrical

Supply Voltage:	601F 18 – 28Vdc 601FEx 14 – 28 Vdc
Quiescent current:	Typical 300 micro Amp
Alarm current:	36mA @ 18Vdc

## 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 Certificate No:	Baseefa 03ATEX0422X
IECEX Certificate No:	IECEX BAS 07.0075X

## Environmental

Operating temperature	-20°C to +70°C
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Operation below 0°C is not recommended unless steps are taken to eliminate condensation and hence ice formation on the detector.

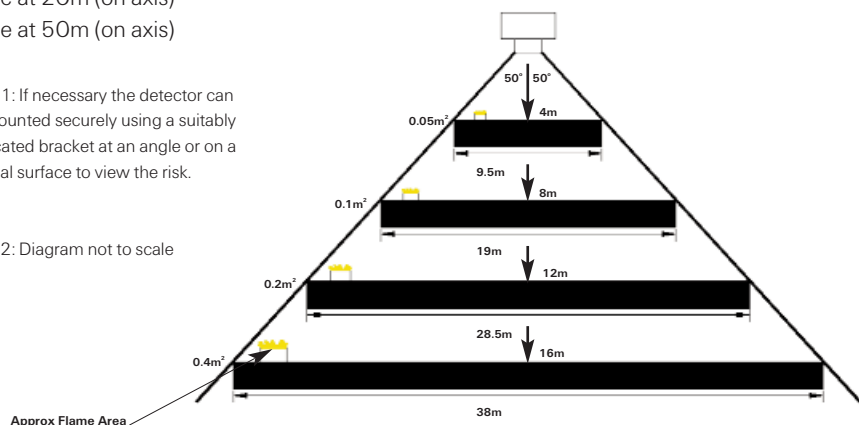
Storage Temperature	-40°C to +80°C
Relative Humidity	90% RH continuous (non-condensing) and up to 99% RH intermittent (non-condensing)

## Performance

Range	0.1m <sup>2</sup> n-heptane at 20m (on axis) 0.4m <sup>2</sup> n-heptane at 50m (on axis)
Field of View	100°

Note 1: If necessary the detector can 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



## Electromagnetic Compatibility

ESD:	to EN50130-4
Radiated Immunity:	to EN50130-4
Fast Transient:	to EN50130-4
Slow High Energy:	to EN50130-4
Conducted Immunity:	to EN50130-4
Emissions:	to EN61000-6-3

## Mounting Base

5B	5" Universal Base
5BD	5" Universal Diode Base (601F only)
5BEX	5" IS Universal Base
Connections:	L -VE IN/OUT L1 +VE IN L2 +VE OUT R Remote LED Drive -VE

## Ordering Information:

Stockcode	Description
516.600.006	601F Conventional Flame Detector
516.600.066	601FEX Conventional Flame Detector Intrinsically Safe
517.050.017	5B 5" Universal Base
517.050.600	5BD 5" Conventional Diode Continuity Base
517.050.023	5BEX 5" Universal Ex Base
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

For further information on how ADT can help you, contact your local office or phone free on **0800 010 999** or visit us at [www.adt.co.uk](http://www.adt.co.uk)



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