

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 0.1m² 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.



SPECIFICATIONS

Mechanical

 Detector Material
 FR110 '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 $+70^{\circ}\text{C}$

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 0.1m² n-heptane at 20m (on axis)

0.4m² n-heptane at 50m (on axis)

Field of View 100°

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

5" Universal Diode Base (601F only)

5BEX 5" IS Universal Base Connections: L-VE IN/OUT

L1 +VE IN L2 +VE OUT

Description

R Remote LED Drive -VE

Ordering Information:

Stockcode

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







