

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
- Automatic health check feature
- Discrete ultra low profile design
- Fits a standard MX detector base or functional base
- Integral alarm LED with 360° angle of view
- Use T110 infrared test source (With separate adaptor)



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.

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 |
| ■ 517.050.610 | 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: | FR110 'BAYBLEND' |
| Dimensions: | 108mm x 21.2mm |
| Weight: - 601F | 74g |
| - 601FEX | 108g |

Electrical

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|--------------------|---------------------------------------|
| Supply Voltage: | 601F 18 – 32Vdc 601FEx 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)

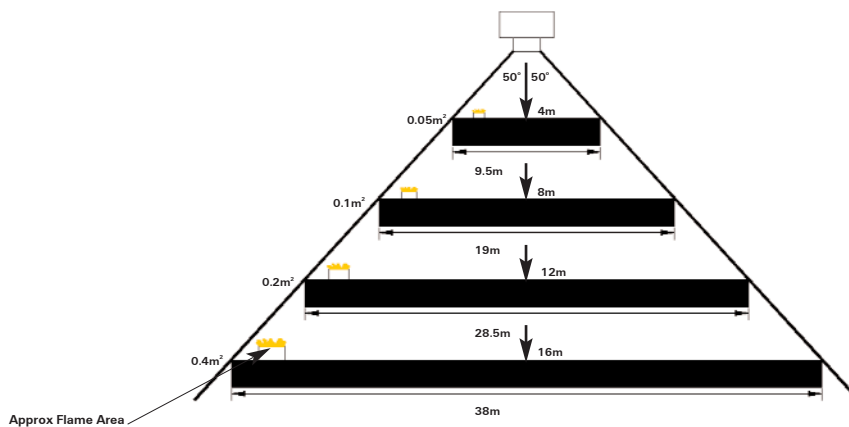
Performance

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|----------------|--|
| Range: | 0.1m ² n-heptane at 20m 0.4m ² n-heptane at 50m |
| Field of View: | 100° |

Mounting Base

| | |
|------|-------------------------|
| 5B: | 5" Universal Base |
| 5BD: | 5" Universal Diode Base |

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



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