

## ATEX Dectector Flame RFD-3000x

Item numbers covered by this data sheet

| Fire-Eater item number and name       | OEM item number |
|---------------------------------------|-----------------|
| 540238 ATEX Dectector Flame RFD-3000x | RFD-3000x       |
| 540239 Bracket BK-02 for RFD-3000x    | BK-02           |

### General

RFD-3000X is a Triple IR (IR3) Flame Detector with international certifications. Identify fire by analyzing the IR wavelengths of a long distance flame. Maximum 60 meters of detection range with a 90 degree cone of vision. Permits operation at Hazardous areas.

User selectable output options among Relays, 4-20mA stepped output, and RS-485.

### OEM data



- 60m range
- 18 to 30Vdc operating voltage
- 3 output options: volt free relay, RS485, & 4-20mA
- Rugged construction
- Self test facility
- Earth Continuity

## Specification:

|                                  |  |
|----------------------------------|--|
| <b>Part number</b>               | RFD-3000X  |
| <b>Detector type</b>             | Triple infrared flame detector   |
| <b>Detection range</b>           | 60m (197ft) n-heptane fire   |
| <b>Response time</b>             | 5 Seconds  |
| <b>Field of view</b>             | 90° cone   |
| <b>Sensitivity settings</b>      | 4 sensitivity ranges<br>from 15-60m, 50 to 197ft   |
| <b>Built in test facilities</b>  | Auto self test including window optic check<br>External remote push button test<br>Manual with test lamp |
| <b>Selectable output options</b> | Fire, Fault, Pre Alarm relays, volt free contacts rated 2amp at 30Vdc<br>4-20 mA<br>RS-485               |
| <b>Supply voltage</b>            | 18 to 30Vdc  |
| <b>Quiescent current</b>         | 100mA at 24Vdc   |
| <b>Alarm current</b>             | 150mA @24Vdc tbc   |
| <b>Cable entries</b>             | 2 x 1/2"npt or 2 x M20   |
| <b>Terminal wiring</b>           | 0.2 to 2.0mm <sup>2</sup><br>14 to 24 AWG  |
| <b>Operating temperature</b>     | -40°C to +75°C   |
| <b>Humidity</b>                  | 95%  |
| <b>IP rating</b>                 | IP66/67, NEMA Type 4X  |
| <b>Housing material</b>          | 316 Stainless Steel  |
| <b>Body colour</b>               | Stainless steel natural finish   |
| <b>Dimensions</b>                | W 122 x H 117 x D 111 mm   |
| <b>Shipping weight</b>           | 4.9kg  |
| <b>Approvals</b>                 | ATEX, FM, NEPSI, IECEX see table for details   |

## Approvals:

### ATEX

**Certificate No: FM13ATEX0058X**

II 2 G Ex db IIB+H2 T5 Ta= -40°C to +75°C IP66 / IP67

### IECEX

**Certificate no: IECEX FMG 14.0013X**

Ex db IIB+HS T5 -40°C ≤ Ta ≤ +75°C IP66/67

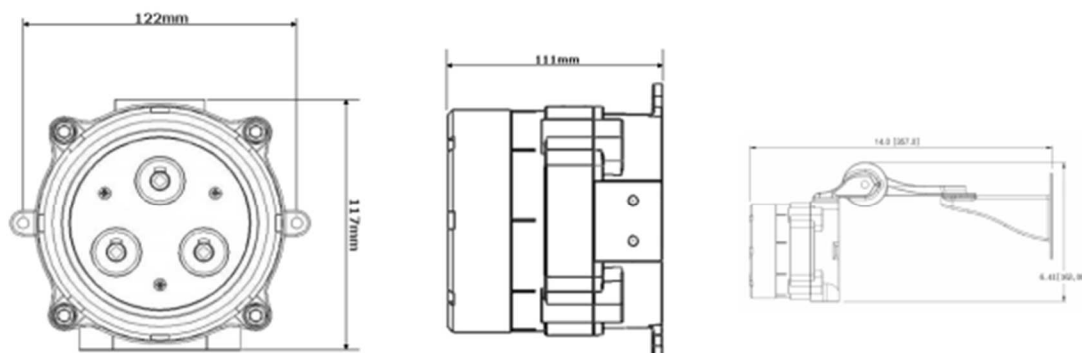
### FM

Explosion proof Class I Division 1 Groups B,C and D  
Dust ignition proof Class II/III Division 1 Groups E,F and G,  
T5 Ta=-40°F (-40°C) to 176°F (75°C)

### NEPSI (China)

Ex dIIC T5 Gb DIP A21 TA, T5 IP67

## Dimensions (mm)



## Available accessories

Sun Shield



Air Shield



Mounting Bracket

