**ProDetec**

Measure . Prevent . Protect . Control

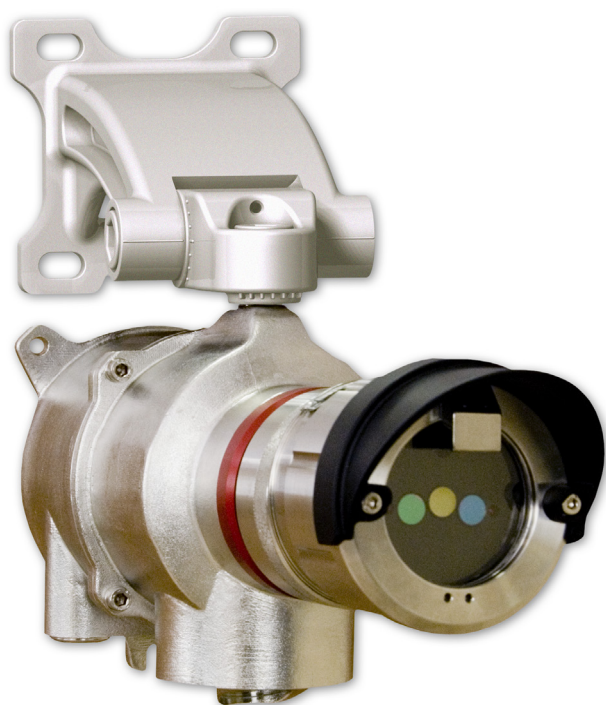# DF-TV7-T

Multi-spectrum IR Flame Detector

## Presentation

The MultiFlame DF-TV7–T is a multi-spectrum infrared flame detector using three wavelengths. The MultiFlame DF-TV7-T responds to hydrocarbon fires and is the right choice for operation in dirty environments or for detection of smoky fires.

The MultiFlame DF-TV7–T is designed to respond to unwanted hydrocarbon fires, whilst maintaining a high degree of false alarm immunity.

The device offers a wide range of output options, as standard and is certified for use in SIL 3 applications. The unit may be interfaced directly with a wide range of fire panels, controllers and PLC's etc.

The unit is fully configurable using a wireless hand-held terminal (TLU600) or optionally via HART (TM) giving true flexibility to the installer. Time delays, sensitivity and output configuration are all set up via the TLU; a hazardous area approved hand-held unit. Wireless testing of the optical and output circuits are also possible using the TLU for a guaranteed ease of maintenance.

Terminal TLU portátil
sem fio (IV)

## Features

- Continuous auto-check of optical lens
- Relays, 4-20mA, 0-22mA, Hart outputs
- Long range up to 80m, 260 ft deep
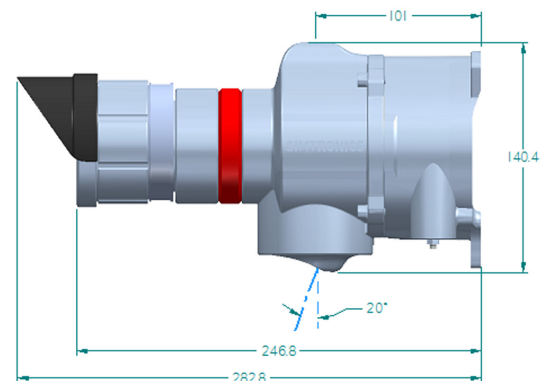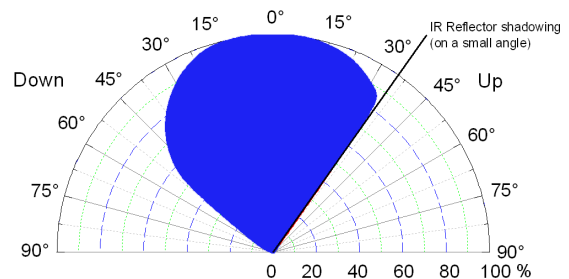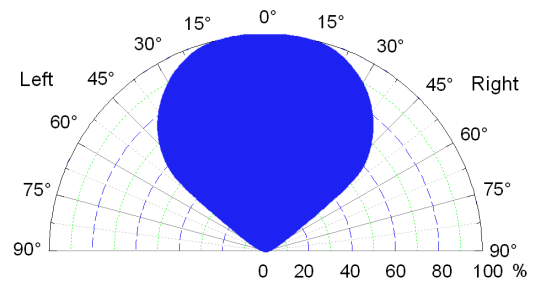- Wide field of view 120°

# DF-TV7-T

## Multi-spectrum IR Flame Detector

## Technical data

| General | |
|---|---|
| Technology | Technology Multi-spectrum Infrared, 3IR |
| Fire Types | Hydrocarbon fires |
| Range, n-heptane | 80m (260ft) 0.3x0.3m (1 sq ft) |
| Range, gasoline | 65m (21 0ft) 0.3x0.3m (1 sq ft) |
| Field of view | Maximum horizontal angle 1 20°<br>Horizontal angle @ 50% 1 04°<br>Vertical angle @ 50% 82° |
| Response time | adjustable from 3 to 20 seconds (typical 6s. ) |
| Warranty | 3 years, back to factory |

| Output signal | |
|---|---|
| Standard | 4-20mA or 0-22mA (configurable by the user)<br>max. load impedance 700M (Std. )<br>HART Protocol 7th edition (option)<br>Lonworks for Syntel (option) |
| Alarms | 2 x configurable Relays max 1 A / 30Vcc |
| Visual | Normal Operating, alarm, fault |

| Electrical | |
|---|---|
| Power supply | 24 Vdc, range (18 - 28 Vdc) |
| Power consumption | 2W normal; 4W during test |
| Connection | 0.3 mm2 (22 AWG) - 1 .5 mm2 (1 6 AWG)<br>Shielded cable recommended |

| Environmental | |
|---|---|
| Storage: | -40°C to +70°C (-40°F to 158°F) |
| Operation | -40°C to +65°C (-40°F to 149°F) |
| Option | Sunshade, max. temp. 85°C (185°F) |
| Humidity | 99% RH (non-condensing) |
| Ingress | IP66 |
| RFI /EMI | Complies with EN50130-4 |

| Explosion proof housing | |
|---|---|
| TLU600 | 316 L STAINLESS STEEL |
| Weight | 5KG (10 LBS) |
| Dimensions | 246.8 x 140.4 x 1 1 5 mm (L, H, W)<br>9.8 x 5.5 x 4.5 inches |

## Approvals

| SIL | SIL3 without redundancy according to IEC 61508-1 to 7 |
|---|---|
| ATEX | II 2 G Ex d IIC T6 Gb (de -40°C à +65°C) |
| IECEx | IEC 60079-0 / IEC 60079-1 |
| CE DPC | According to EN 54-10:2002 + A1:200 |







## Accessories

| TLU600 | Infrared remote control unit, ATEX certified : II 1 G Ex ia IIC T4 |
|---|---|
| LT15 | Test lamp, ATEX certified : II 2 G Ex d IIC T6-T5 |
| AS048-X | SS316 swivel bracket  (with 2" or 2.5" pipe mounting) |
| AS056-450 | Sun shade |
| AS040 | Long type visor  (vertical upper angle reduction) |
| AS041 | Long type visor  (horizontal and vertical angle reduction) |
| AS045 | Air shield |
| AS215 | Tag plate |

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