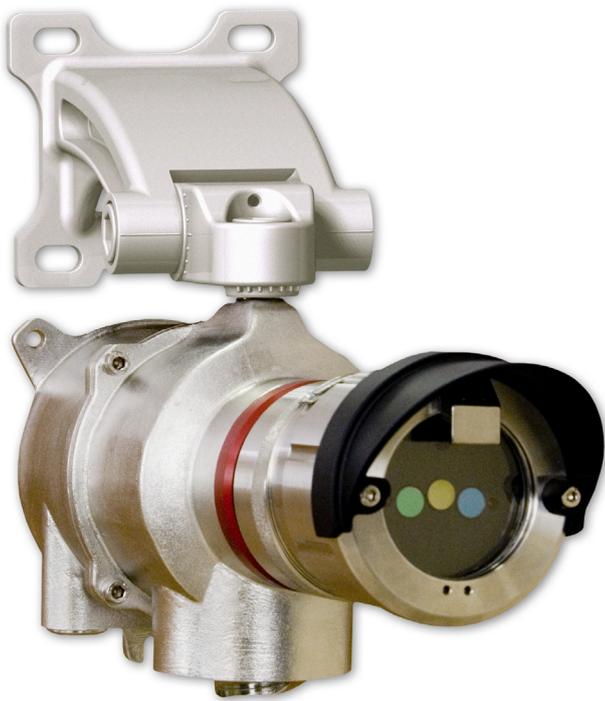




## DF-TV7-T

Multi-spectrum IR Flame Detector



Terminal TLU portábil  
sem fio (IV)

### 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.

### 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

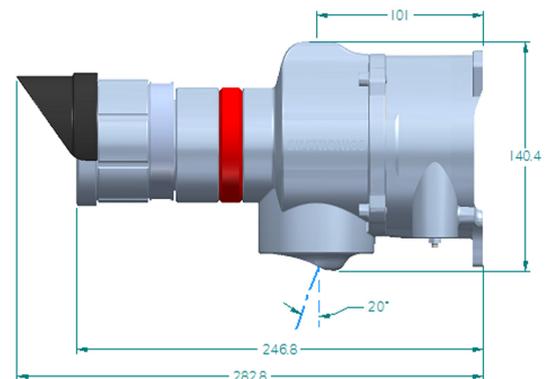
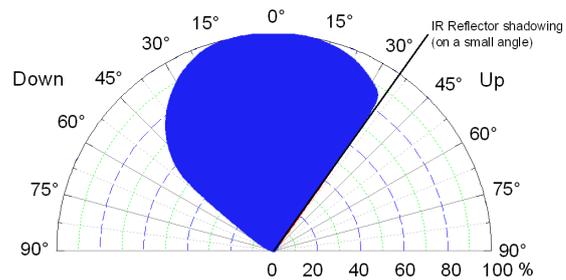
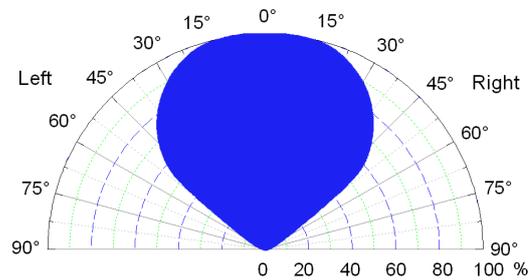
## Multi-spectrum IR Flame Detector

### 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 (210ft) 0.3x0.3m (1 sq ft)   |
| Field of view           | Maximum horizontal angle 120°<br>Horizontal angle @ 50% 104°<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 mm <sup>2</sup> (22 AWG) - 1 .5 mm <sup>2</sup> (16 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 115 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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