



TELEDYNE GAS AND FLAME DETECTION Everywhereyoulook™



TLU Wireless (IR)
Hand-held Terminal

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.

Characteristics

- 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

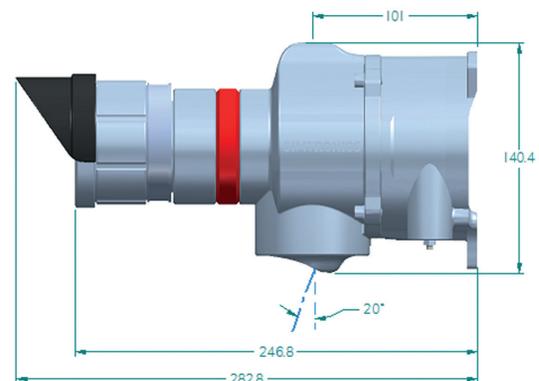
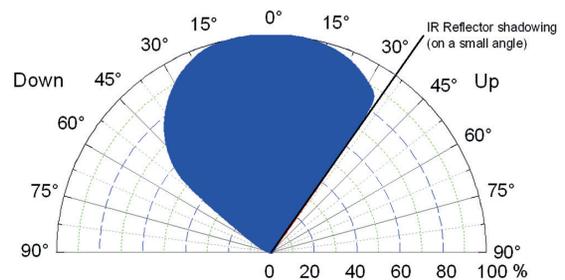
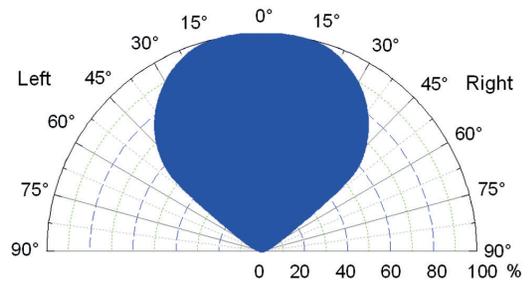
Multi-spectrum IR Flame Detector

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° Horizontal angle @ 50% 104° Vertical angle @ 50% 82°
Response time	adjustable from 3 to 20 seconds (typical 6s.)
Warranty	3 years, back to factory
Output signal	
	4-20mA or 0-22mA (configurable by the user)
Standard	max. load impedance 700M (Std.) HART Protocol 7th edition (option) 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 ² (22 AWG) - 1.5 mm ² (16 AWG) 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) 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

Our company's quality improvement programs require continuous evaluation and improvement of all OLDHAM SIMTRONICS products. Therefore, the information contained in this brochure is subject to change without notice and does not constitute a technical description of the product. For more information, please contact OLDHAM SIMTRONICS or your company representative.



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