ProDetec

Measure . Prevent . Protect . Control

DF-TV7-V

Multi-spectrum UV/2IR Flame Detector

TLU Wireless (IR)
Hand-held Terminal

Presentation

The MultiFlame DF-TV7–V is a combined ultraviolet /infrared flame detector offering excellent flame detection whilst maintaining outstanding false alarm immunity.

The device offers a wide range of output options, as standard and is suitable for use in SIL 2 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 handheld 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.

Features

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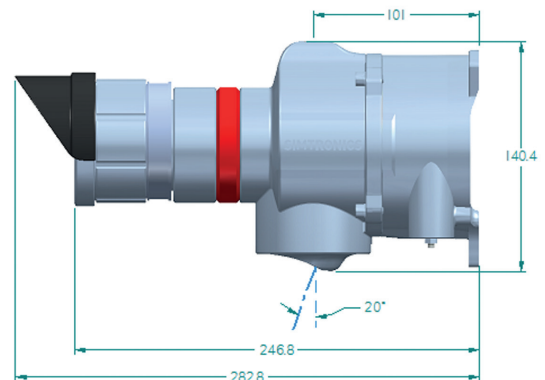- Long range up to 80m, 260 ft deep
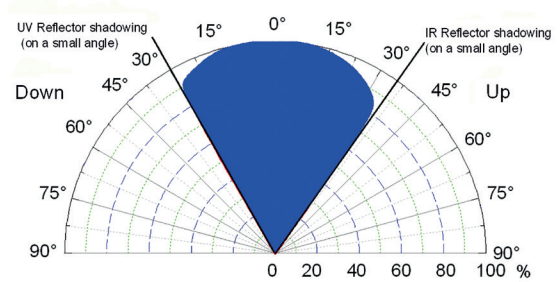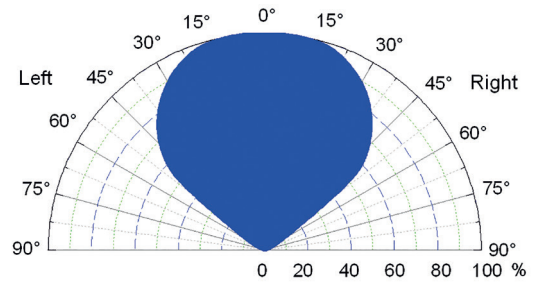- Wide field of view

DF-TV7-V
Multi-spectrum UV/2IR Flame Detector

Technical data

General

Technology	Multi-spectrum ultra violet dual infra red
Fire types	Hydrocarbon fires
Range, n-heptane Range, gasoline	45M (147ft) 0.3X0.3M (1 sq ft) 35M (114 0ft) 0.3X0.3M (1 sq ft)
Field of view	Horizontal angle @ 50% 97° Vertical angle @ 50% 55°
Response time	Adjustable from 2 to 20 seconds (typical 3.5S.)
Warranty	2 Years, back to factory

Output signal

Standard	4-20Ma or 0-22ma (configurable by the user) Max. Load impedance 700 (std.) Hart protocol 7th edition (option) Lonworks for syntel (option)
Alarms	2 X configurable relays max 1a / 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 (16 awg) Shielded cable recommended

Environmental

Storage:	De -40°c à +70°c
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	SIL2 approval without redundancy IEC 61 508-1 to 7
ATEX	II 2 G Ex d IIC T6 Gb (-40°C to +65°C)
IECEx	IEC 60079-0 / IEC 60079-1
CE DPC	EN 54-10:2002 + A1:2005

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

TELEDYNE
GAS AND FLAME DETECTION
Everywhere**you**look™

ProDetec

Measure . Prevent . Protect . Control