

MultiFlame

Long range
Wide field of view
Through lens optical check

DM-TV6-T Multi-spectrum IR Flame Detector

The MultiFlame DM-TV6-T is a multi-spectrum infrared flame detector using three wavelengths. DM-TV6-T responds to hydrocarbon fires and is the right choice for operation in dirty environments or for detection of smoky fires.

Description

The DM-TV6-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 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 (TLU) giving true flexibility to the installer. Time delays, sensitivity and output configuration are all set up via the TLU, hazardous area approved handheld unit.

Wireless testing of the optical and output circuits is also possible using the TLU too.

Applications

- Refineries
- Drilling and Production Platforms
- Fuel Loading Facilities
- Compressor Stations
- LNG/LPG Processing and Storage
- Gas Turbines
- Chemical Plants
- Aircraft Hangars
- Sports Stadia / Atria

Features

Multi-spectrum infrared flame using three wavelengths

Long range (80m, 260 feet) and wide (110°) field of view

Wide operating temperature

Relays and 4-20mA output

Through lens optical check

ATEX / IEC Ex Approved

Selectable sensitivity and time delays

Flexible mounting arrangement

Wireless detector configuration and testing

Benefits

Suitable for detecting smoky fires in dirty environments

Fewer detectors needed due to enhanced fire detection coverage

Suitable for most environments

Standard industry interfaces

Ensures proper device operation

Suitable for use in hazardous areas

For configuration to each application

Ease of installation and cabling

Minimises the need for direct detector access

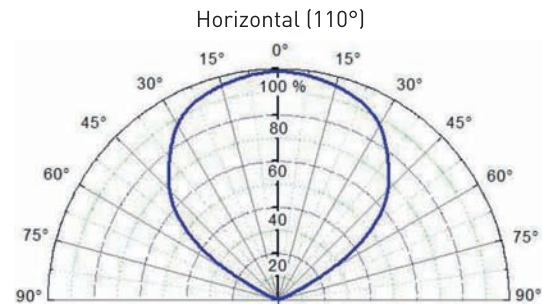


Wireless (IR)
Handheld Terminal

Technical Data

GENERAL

Technology	Multi-spectrum Infrared
Fire Types	Hydrocarbon fires
T10 Module (Standard Range)	
Range, n-heptane	40m (130ft) 0.3x0.3m (1 sq ft)
Range, gasoline	33 m (110 ft) 0.3x0.3 m (1 sq ft)
T00 Module (Very Long Range)	
Range, n-heptane	80m (260 ft) 0.3x0.3m (1 sq ft)
Range, gasoline	65 m (210 ft) 0.3x0.3 m (1 sq ft)

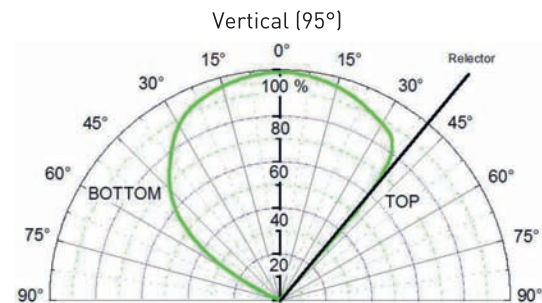


OUTPUT SIGNAL

Standard	4-20mA, max. load impedance 700Ω (Std.)
PLC option	0-22mA (Option for PLC's)
Syntel	Lonworks
Alarms	2 x configurable Relays max 1A / 30V

ELECTRICAL

Power supply	24V DC, range (18 - 32V DC)
Power consumption	70 mA normal; 155 mA during test
Connection	0.3 mm ² (22 AWG) - 2.5 mm ² (12 AWG) Shielded cable recommended.
MTBF	65300 h



ENVIRONMENTAL

Storage:	-40°C to +70°C (-40°F to 158°F)
Operation	-20°C to +60°C (-4°F to 140°F)
Humidity	95% RH (non-condensing)
Ingress	IP66
RFI/EMI	Complies with EN50081-1, EN50081-2, EN50082-1 and EN50082-2.

EXPLOSION PROOF HOUSING

Material	Epoxy coated aluminium (std) 316 L stainless steel (option)
Weight	3.3 Kg (7.3 lbs) aluminium 7.4 kg (16.3 lbs) stainless steel
Dimensions	223 x 118 x 184 mm (L, D, H) 8.78" x 4.65" x 7.25" (L, D, H)

APPROVALS

ATEX	ATEX II 2 G Ex d II C T6 Certificate number: LCIE03ATEX6263
IECEX	IECEX LCI09.0018

ACCESSORIES

- TLU600 Wireless configuration tool
- Sun shade
- Multi-position angle wall mounting
- Pivot ball mounting bracket

