

MultiFlame

Wide field of view
Through lens optical check
Excellent False Alarm Immunity

DM-TV6-V Combined UV and IR Flame Detector

The MultiFlame DM-TV6-V is a combined Ultraviolet / Infrared flame detector offering excellent flame detection whilst maintaining outstanding false alarm immunity.

Description

The DM-TV6-V 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

- UV/2IR flame detection
- Wide (110°) field of view
- Wide operating temperature
- Relays and 4-20mA output
- Through lens optical check for UV and IR sensors
- ATEX / IEC Ex Approved
- Selectable sensitivity and time delays
- Flexible mounting arrangement
- Wireless detector configuration and testing

Benefits

- Outstanding false alarm immunity
- Fewer devices, greater coverage
- Suitable for most environments
- Standard industry interfaces
- Verifies the true operational status of the whole detector
- Suitable for use in hazardous areas
- Flexible configuration
- Ease of installation and cabling
- Minimises the need for direct detector access



Wireless (IR)
Handheld Terminal

Technical Data

GENERAL

Technology	Ultra Violet / Dual Infra Red
Fire Types	Hydrocarbon fires
Range, n-heptane	45m (147 feet) 0.3x0.3m (1 sq foot)
Range, gasoline	27 m (88 feet) 0.3x0.3 m (1 sq foot)

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	53300 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

