

GAS DETECTION SENSORS

INTEGRATED CONTROL SYSTEMS

SMARTWIRELESS®

PIPELINE ANALYZERS

ALARMS

# Description

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

The MultiFlame DF-TV7-V is designed to respond to unwanted hydrocarbon fires, while 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) or optionally via HART® giving true





Wide Field of View Excellent False Alarm Immunity Continuous Auto-check of Optical Lens Certified SIL 2 by an External Body



flexibility to the installer. Time delays, sensitivity and output configuration are all set up via the TLU; a hazardous area approved handheld unit.

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

# Applications

- Refineries
- Drilling and Production Platforms
- Gas Turbines

LNG/LPG Processing and Storage

- Chemical Plants
- Fuel Loading FacilitiesCompressor Stations

# **Features**

- Combined UV and multi IR technologies
- Wide field of view
- Relays and 4-20mA output
- Continuous auto-check of optical lens
- Selectable sensitivity and time delays
- Wireless detector configuration and testing using TLU
- ▶ HART<sup>®</sup> output option available

# Benefits

Excellent false alarm immunity
Fewer detectors needed due to enhanced fire detection coverage
Standard industry interfaces
Ensures safe and proper device operation
For configuration to each application
Minimizes the need for direct detector access
Full configuration and diagnostics over non-proprietary interface

www.detcon.com

## MultiFlame DF-TV7-V Multi-spectrum UV/2IR Flame Detection

## **Technical Data**

#### General

Technology: Multi-spectrum Ultra Violet Dual Infrared Fire Types: Hydrocarbon fires Range, n-heptane: 45m (147ft) 0.3x0.3m (1sq ft) Range, gasoline: 35m (114ft) 0.3x0.3m (1sq ft)

#### **Output Signal**

Standard: 4-20 mA, max load impedance 700 Ohm (Std.) Option HART<sup>®</sup>: HART Protocol (7th edition) PLC option: 0-22mA (User configurable) Syntel: Lonworks Alarms: 2 x configurable Relays max 1A / 30V Visual: Normal Operating, Alarm, Fault

#### **Electrical**

Power Supply: 24V DC, range (18-28V DC) Power Consumption: 2W normal; 4W during test Connection: 0.14 mm<sup>2</sup> (28 AWG) - 1.5mm<sup>2</sup> (16 AWG) Shielded cable recommended.

#### Environmental

Storage: -40°C to +70°C (-40°F to +158°F) Operating: -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 EN5013-4

## **Explosion Proof Housing**

Material: 316 L stainless steel Weight: 5kg (10 lbs)

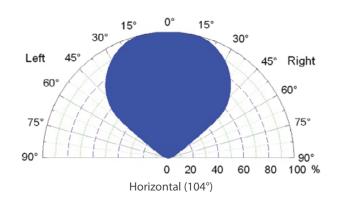
#### Approvals

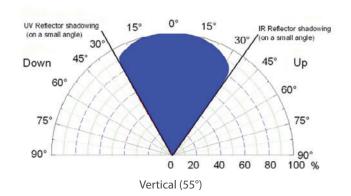
ATEX: II 2 G Ex d II C T6 Gb (-40°C to +65°C) Certificate #: LCIE 13 ATEX 3025 X
IECEx: IECEx LCIE 13.0022X
CE DPC: \*\*\*\*-CPD-\*\*\*\*\*\* EN 54-10 Standard (pending)
SIL: SIL2 Approval without redundancy

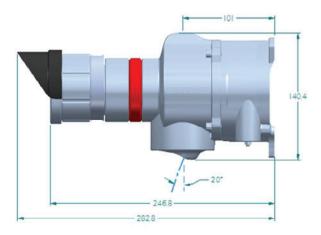
#### Accessories

TLU600: Infrared remote control unit LT15: Test lamp AS045: Air shield AS046: Mounting bracket AS215: Tag plate AS040/AS041: Long type visor (vertical angle restriction, vertical and horizontal angle restriction) AS008-400: Sun shade

AS056-450: Weather protection







## **Other Products** (Stainless Steel Range)

**DGI-TT7:** MultiTox, Toxic (EC Cell) Gas Detector **DG-TT7:** MultiTox, Solid-State (MOS) Gas Detector **DG-TX7:** MultiXplo, Flammable Gas Detector

Specifications subject to change without notice



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**ISO 9001: 2008** *Certified* 

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