



GROVELEY DETECTION

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Infrared Flame Detector DM-TV6-T



The Simtronics DM-TV6-T Flame Detector detects Hydrocarbon based flames from burning wood, paper, petrol, natural gas, oil etc. It contains three IR sensors with associated signal processing circuitry. The device offers a wide range of output options as standard and is suitable for use in SIL2 applications.

The DM-TV6-T offers the highest degree of false alarm rejection. The detector provides exceptional detection of fires from light to heavy hydrocarbon fuels.

The unit is supplied with ATEX hazardous area approval rating for zones 1 and 2 areas. The devices are suitable for use in indoor and outdoor applications.

Typical applications include: Refineries, drilling and production platforms, LNG/LPG processing and storage, onshore / offshore oil and gas exploration, chemical plant, aircraft hangars and the automobile industry.

Features

- 3 x IR flame detection
- Wide range of hydrocarbon fuel fires detectable
- Excellent false alarm immunity and solar immune
- Wide field of view for enhanced coverage
- Field selectable flame sensitivity and time delay
- Selectable outputs
- Continuous through lens optical test
- Fully configurable using wireless handheld terminal

Benefits

- Reliable, versatile flame detection
- A wide range of output options, as standard and may be interfaced directly with a wide range of fire panels, controllers and PLC's etc
- Discriminates between flames and spurious sources of infrared radiation

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buying quality...*

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TECHNICAL DETAILS

General

- Detection 3IR
- Detected fires Hydrocarbon
- T10 Module (Standard Range)
 - Range, n-heptane 40m (130ft) 0.3 x 0.3m (1 sq ft)
 - Range, gasoline 33m (110ft) 0.3 x 0.3m (1 sq ft)
- T00 Module (Very Long Range)
 - Range, n-heptane 80m (260ft) 0.3 x 0.3m
 - Range, gasoline 65m (210ft) 0.3 x 0.3m (1 sq ft)
- Viewing angle
 - horizontal 110°
 - vertical 95°


Output Signal

- Standard 4-20mA, maximum load impedance 700 Ω
- Options 0-22mA (for PLC), Syntel Lonworks
- Relay output 2 configurable. Rated Max 1A / 30V DC

Electrical

- Power supply 24V dc, range 18 - 32V DC
- Consumption 70 mA, 155 mA during auto test
- Connections 0.3mm² (22 AWG) - 2.5 mm² (12 AWG) Shielded cable recommended

Certification

- ATEX  II 2 G EEx d II C T6
- Certificate Number LCIE 03 ATEX 6263
- IECEx IECEx LC109.0018
- SIL Qualified for SIL 2 systems

Environmental

- Storage temp. -40°C to + 70°C
- Operational temp. -20°C to + 60°C
- Humidity 95% RH (non-condensing)

Housing

- Materials Epoxy coated aluminium
 - option 316 L stainless steel
- Protection IP66
- Weight 3.3 kg aluminium housing
 - 7.4 kg stainless steel housing
- Dimensions 184 x 118 x 223 (L, D, H) mm

Accessories

- TLU600 wireless configuration tool
- Multi-position angle mounting bracket
- Pivot ball mounting bracket
- Sun shade
- LT15 test torch
- Visor - range of sight restrictors

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