



GROVELEY DETECTION

Groveley Detection Limited

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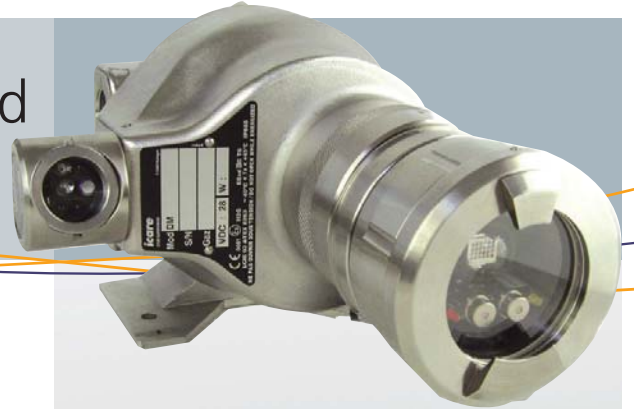
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Combined Ultra Violet Infrared Flame Detector **DM-TV6-V**



The Simtronics DM-TV6-V Combined Ultra Violet / Infrared Flame Detector detects Hydrocarbon based flames from burning wood, paper, petrol, natural gas, oil etc.

The unit offers optimum false alarm immunity as it combines the benefits of a UV and IR detector in a single device. An alarm is not registered unless the UV and IR sensors' alarm criteria are both satisfied.

The DM-TV6-V protects against the influence of direct sunlight or sunlight reflections; artificial lights like Fluorescent tubes or Halogen Lamps; arcs from electrical discharges (static or electric motors); the radiation caused by Arc Welding (>3 metres); chopped or modulated hot body radiation from machines or exhausts.

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

- Wide range of hydrocarbon fuel fires detectable
- Excellent false alarm immunity
- 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

- 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 flame and spurious sources of UV and IR radiation

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*No-one ever regretted
buying quality...*

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TECHNICAL DETAILS

General

- Detection UV / 2IR
- Detected fires Hydrocarbon
- Detection distance 45m to n-heptane fire 0.3 x 0.3m
27m to gasoline fire 0.3x0.3m
- Viewing angle - horizontal 110°
- vertical 80°


Output Signal

- Standard 4-20mA, maximum load impedance 700 Ω
- Option 0-22mA (Plc), Syntel Lonworks
- Relay output 2 configurable rated max 1A / 30V DC

Electrical

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

Certification

- ATEX  II 2 G EEx d II C T6
- Certificate No. 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 (H,D,L) mm

Accessories

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

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