MultiFlame DF-TV7

Optical flame detector

Technical specifications

Optical flame detector: hydrocarbons and carbon compounds
- DF-TV7-T multi-spectrum infrared flame detector
- DF-TV7-V combined IR and UV detection

Start-up time: 15s.
Self-test: periodic optical self-test through the window
Calibration: factory setting, does not require rework
Output signals: 4-20 mA Active type (source) max load impedance 700 Ω
Alarms: 2 configurable relays, max. 1A / 30 Vdc, 3 states (normal, fire and fault alarm)
Power supply: 24 Vdc, (18 - 28 Vdc)
Consumption: 70 mA nominal, 155 mA during the self-test
Housing: 316L stainless steel
Protection: IP66
Weight: 5.1 kg
Operation: from -40°C to + 65°C, 99% RH (non-condensable)
Sun protection: temp. surface area max. 85 °C (optional)

DF-TV7-V (UV / 2 IR)
- DF-TV7-V combines UV and IR technology
- MultiFlame DF-TV7-V can also be configured for special applications, where use in IR or UV alone is required. The UV detector can be sensitive to radiation from electric arcs, x-rays and gamma rays.

DF-TV7-T (3 IR)
- DF-TV7-T is a multi-spectrum infrared flame detector using 3 individual wavelengths.
- The detector can be supplied with:
  - A standard cartridge, covering the widest range of applications
  - A high sensitivity cartridge for special applications where maximum sensitivity is required

Functionality:
- DF-TV7-T: Multi-spectrum IR
- DF-TV7-V: UV + 2 IR combination

Specifications

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<tr>
<th>Specifications</th>
<th>DF-TV7-T (3 IR)</th>
<th>DF-TV7-V (UV / 2 IR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection range</td>
<td>80m for a fire of 0.1m² (0.3m x 0.3m) of n-heptane and 65m for gasoline</td>
<td>45m for a standardized fire of 0.1m² (0.3m x 0.3m) of n-heptane and 30m for gasoline</td>
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<tr>
<td>Field of view</td>
<td>Maximum horizontal angle: 120 °</td>
<td>Horizontal angle at 50% of span: 97 °</td>
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<td>Horizontal angle at 30% of span: 104 °</td>
<td>Vertical angle at 50% of span: 55 °</td>
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</tbody>
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