Flame monitor

Particularly cost-effective, fail-safe flame monitors for the monitoring of gas and oil burners as well as combined gas/oil burners.

Features

- Monitoring of gas and oil burners of any load
- Suitable for intermittent operation and continuous operation (only AAL 75 POD)
- Simple installation on TS 35 DIN-rail.

Applications

- Chemical industry
- Refineries
- Cement plants
- Waste incinerators
- Steam generators
- Heating plants.

Certifications

- DVGW (not D-IR 55)
- UL 372 (not AAL 75)
- FM Class 7610
- GOST-R.

Functional description

The flame monitor comprises of a control unit and flame sensor.

- Optical flame sensors generate a signal from the UV or IR range of the flame radiation
- Flame sensors with an ionisation electrode process a current flowing through the flame.

Models

- **AAL 75**
  - Ionisation flame monitor for intermittent or continuous operation,
  - Also suitable for single electrode operation in conjunction with DURAG ignition transformers, model D-HG 55.

- **D-IR 55**
  - Infra-red flame monitor for intermittent operation,
  - Analyses flame intensity (flickering) in conjunction with the D-LE 55 ISF-ÇG flame sensor

- **D-UV 55**
  - UV flame monitor for intermittent operation,
  - Analyses the flame intensity in conjunction with the D-LE 55 UL-ÇG flame sensor

Accessories

- Cable for connecting the ionisation electrode to the ionisation flame monitor (kleZ912F0)
- Ball valve for closing the sighting tube (D-ZS 133 III)
- Swivel mount for alignment of the flame sensor to the flame to be monitored (D-ZS 033 III)
- Test light source for D-UV 55/D-LE 55 for functional test of the flame monitor, battery operated (D-ZS 091)
- Test light source for D-IR 55/D-LE 55 ISF-ÇG for functional test of the flame monitor, voltage supply 115/230 VAC / 50-60 Hz (D-ZS 093)
- Thermal isolator with electrical insulation for D-LE 55 UL-ÇG and D-LE 55 ISF-ÇG flame sensor (D-ZS 117 III).

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ATHEX Industrial Suppliers
www.athex.eu - info@athex.eu
Tel: +32 (0)3 653 21 82

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**Flame monitor (control unit)**

<table>
<thead>
<tr>
<th>Type</th>
<th>AAL 75</th>
<th>D-IR 55 / D-UV 55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational mode</td>
<td>Intermittent operation</td>
<td>Intermittent operation</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>115 / 230 VAC, 50 / 60 Hz</td>
<td>115 / 230 VAC, 50 / 60 Hz</td>
</tr>
<tr>
<td>Perm. ambient temperature</td>
<td>-20...+60°C</td>
<td>-20...+60°C</td>
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<tr>
<td>Safety time</td>
<td>1 s</td>
<td>1 s, 3 s or 5 s</td>
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<tr>
<td>Display</td>
<td>LED</td>
<td>LED</td>
</tr>
<tr>
<td>Protection</td>
<td>IP20</td>
<td>IP20</td>
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<tr>
<td>Dimensions</td>
<td>Ø37 mm, length 116 mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>0.45 kg</td>
<td></td>
</tr>
</tbody>
</table>

**Flame sensor**

- **D-LE 55 ISF-ÇG**: 790 – 1050 nm
- **D-LE 55 UL-ÇG**: 190 – 270 nm
- Spectral sensitivity
- Perm. ambient temperature
- Mounting G1” or G ½”
- Protection IP65
- Dimensions Ø37 mm, length 116 mm
- Weight 0.45 kg