1. Features

- Dual element pyro sensor.
- Digital motion detection algorithm.
- Digital temperature compensation.
- Adjustable detection sensitivity.
- Built-in EOL resistors.
- LED to indicate alarm status.
- Remote LED enable/disable.
- Alarm memory.
- Supervision of detector signal path and supply voltage.
- Tamper protection against cover removal.

2. Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>12 V DC ±15%</td>
</tr>
<tr>
<td>Standby current consumption</td>
<td>12 mA</td>
</tr>
<tr>
<td>Maximum current consumption</td>
<td>14 mA</td>
</tr>
<tr>
<td>EOL resistors</td>
<td>2 x 1.1 kΩ</td>
</tr>
<tr>
<td>Relay contacts rating (resistive load)</td>
<td>40 mA / 16 V DC</td>
</tr>
<tr>
<td>Detectable speed</td>
<td>0.3...3 m/s</td>
</tr>
<tr>
<td>Alarm signaling period</td>
<td>2 s</td>
</tr>
<tr>
<td>Warm-up period</td>
<td>30 s</td>
</tr>
<tr>
<td>Recommended installation height</td>
<td>2.4 m</td>
</tr>
<tr>
<td>Security grade according to EN50131-2-2</td>
<td>Grade 2</td>
</tr>
<tr>
<td>Standards complied with</td>
<td>EN50131-1, EN50131-2-2, EN50130-4, EN50130-5</td>
</tr>
<tr>
<td>Environmental class according to EN50130-5</td>
<td>II</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-30...+55 °C</td>
</tr>
<tr>
<td>Maximum humidity</td>
<td>93±3%</td>
</tr>
<tr>
<td>Dimensions</td>
<td>63 x 96 x 49 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>94 g</td>
</tr>
</tbody>
</table>

3. Description

After motion is sensed by the detector in the coverage area, the alarm relay contacts will open for 2 seconds.

**Supervision features**

In the event of the voltage drop below 9 V (± 5%) for more than 2 seconds or the signal path failure, the detector will signal a trouble. The trouble is indicated by the activation of alarm relay and the steady light of LED indicator. The trouble signaling will continue as long as the trouble persists.

**Remote LED enable/disable**

The LED can be enabled/disabled remotely, if the LED has not been enabled using the LED ON/OFF pins. The LED terminal is provided to allow remote LED enable/disable. The LED is enabled, when the terminal is connected to the common ground, and disabled, when the terminal is disconnected from the common ground.
You can connect to the LED terminal an OC type control panel output programmed e.g. as the **SERVICE MODE STATUS**, **BI SWITCH** or **ZONE TEST STATUS**.

### Alarm memory

If the LED is enabled, the detector can indicate the alarm memory. The MEM terminal is provided to allow the alarm memory feature enable/disable. The feature is enabled, when the terminal is connected to the common ground. The feature is disabled, when the terminal is disconnected from the common ground. If the alarm memory feature is enabled and an alarm occurs, the LED will start blinking. Indication of the alarm memory will continue until the alarm memory feature is enabled again (the MEM terminal is connected to the common ground). Disabling the alarm memory feature will not stop the alarm memory indication. You can connect to the MEM terminal an OC type control panel output programmed e.g. as the **ARMED STATUS**.

### 4. Electronics board

- **NC** - alarm output (NC relay).
- **TMP** - tamper output (NC).
- **COM** - common ground.
- **12V** - power input.
- **LED** - remote LED control.
- **MEM** - alarm memory control.

#### terminals:

1. configuration pins for detector outputs:
   - the built-in resistors are to be used – place the jumpers as shown in Fig. 2 (connect the outputs as shown in Fig. 10).
   - the built-in resistors are not to be used – place the jumpers as shown in Fig. 3 (connect the outputs as shown in Fig. 9).

2. tamper switch.

3. scale for positioning of pyroelectric sensor against the lens (see: Fig. 8).

4. fixing screw hole.

5. red color LED to indicate:
   - alarm – ON for 2 seconds,
   - alarm memory – blinking rapidly,
   - trouble – ON,
   - warm-up – blinking slowly.

6. LED enable/disable pins. The LED is enabled, if the jumper is placed over the pins (the pins are shorted).

7. dual element pyrosensor. **Do not touch the pyroelectric sensor, so as not to soil it.**

8. potentiometer for sensitivity adjustment.
5. Installation

Disconnect power before making any electrical connections.

1. Remove the front cover (Fig. 4).
2. Remove the electronics board.
3. Make the openings for screws and cable in the enclosure base.
4. Pass the cable through the prepared opening.
5. Secure the enclosure base directly to the wall or to the bracket screwed down to the wall/ceiling (Fig. 5 and 6). If the detector is to be located higher than 2.4 m above the floor, use the bracket and tilt the detector on the bracket.

**Note:** Do not mount the detector on the bracket, if the detector is to meet the requirements of EN50131-2-2.

6. Fasten the electronics board. The scale next to the mounting screw hole facilitates positioning of the electronics board, depending on the detector installation height (Fig. 8).

7. Connect the wires to the corresponding terminals.
8. Using potentiometer and jumpers, set the detector working parameters.
9. Replace the cover.

6. Start-up and walk test

**Note:** When testing the detector, the LED should be enabled.

1. Power-up the detector. The LED will start blinking, which indicates the detector warm-up.
2. When the LED stops blinking, check that moving within the coverage area (Fig. 7 shows the maximum coverage area – at the maximum sensitivity) will activate the alarm relay and make the LED light up.

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The declaration of conformity may be consulted at www.satel.eu/ce