MANUFACTURER'S STATEMENT

Read this operation manual carefully before use to ensure proper operation of this product. Failure to read this operation manual may cause improper operation and may result in injury or death of a person. The meanings of the symbols are as follows. Please study the following and then read the contents of the operation manual.

WARNING
Cheek of caution may cause improper operation causing death or serious injury to a person.

CAUTION
Cheek of caution may cause improper operation causing injury of a person or damage to horses.

NOTE
Special attention is required to the section of this symbol.

It is required to check the operation manual if this symbol is shown on the product.

WARNING
Do not wash, disassemble, rebuild or repair the sensor otherwise it may cause electric shock or breakdown of the equipment.

The following conditions are not suitable for sensor installation:
- Fog or exhaust emission around the area
- Wet floor
- Grazing floor
- Moving objects or objects that exist near the detection area
- Highly reflecting floor or highly reflecting objects around the area.

SPECIFICATIONS

Model: OA-EDGE T
Profile color: Silver / Black
Mounting height: 1.5m to 3.0m (3.19')
Detection area: See DETECTION AREA
Detection method: Microwave
Mini configuration: 1 Module + 1 LED module
Max. configuration: 4 sensor modules + 2 LED modules
Depth angle: 0° to 29°
Power supply: 12 to 24VAC ±10% (50 / 60Hz)
Power consumption: 1.3W (≤ 2.5W at full load)
LED indicator: (See chart)
Safety / Test output 1: Form C relay
Safety / Test output 2: Voltage 4.5VDC
Safety / Test output 3: Voltage 3.3V DC (Resistance load)
Output: See INSTALLATION chapter 3, Wiring

NOTE
The specifications herein are subject to change without prior notice due to improvements.

COMPLIANCE STANDARDS AND EXTRACT FROM EC DECLARATION OF CONFORMITY


Machinery Directive 2006/42/EC
EMC Directive 2004/108/EC
Low Voltage Directive 2014/35/EU

Notified Body 0444 - TVU NORD CERT GmbH Langemarckt, 205414 Essen Germany
For technical documentation, see European Subdivision.

DETECTION AREA

Detection area at 2200mm (7’ 2 1/8’’): Depth 140 (5 1/2’’) x Width 870 (30’’)

Test conditions required by EN 1605: Detection object - EN 1605 CA reference body

Emitting area at 2200mm (7’ 2 1/8’’): Depth 140 (5 1/2’’) x Width 440 (1’ 1 1/2’’)

NOTE
The actual detection area may become smaller depending on the ambient light, the color / material of the object or the floor as well as the entry speed of the object.

Recommended installation position

INSTALLATION

1. Mounting the profile
   1. Take the sensor modules out of the profile.
   2. If the profile is longer than the door width, cut the profile. Make sure not to scratch the front cover. 3. Align the profile on the intended mounting position leaving more than 20mm (13/16’’) from door edge to attach the end. 4. If necessary, adjust two mounting holes of 3/4in (1/4’’) and fix the profile. 5. When mounting a sensor on each side of the door, it is necessary to drill a wiring hole of 12mm (1/2’’) to connect the sensor modules. (See chapter 3, Wiring)

2. Inserting the sensor module
   1. The lens that is marked "X" must be positioned on the corresponding door edge. Refer to DETECTION AREA for the sensor module position. The sensor module can be inserted in reverse as shown below. Do this to attach the mounting clip and rotate the sensor module by 180° and reattach the mounting clip.

NOTE
Make sure to fix the sensor modules firmly by the mounting clips.

OUTER DIMENSIONS AND PART NAMES

UNIT: MM (inch)

- Silv er screw (small)
- Black screw (small)

- Silver module
- Black module

- Left screw
- Right screw

- LED indicator
- Sensor module indicator
- The color depends on the state of the output.
**1. Setting the area width**
Set dipswitch 10D to "2" steps when a narrow detection area is required, 4 steps when a wide detection area is required.

**2. Setting the mounting side**

<table>
<thead>
<tr>
<th>Setting the mounting side (output select)</th>
<th>Setting the mounting side (output select)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output</strong></td>
<td><strong>LED indicator</strong></td>
</tr>
<tr>
<td>OFF</td>
<td>Solid Green</td>
</tr>
<tr>
<td>ON</td>
<td>Solid Orange (Detection)</td>
</tr>
</tbody>
</table>

**Function switch**
- Only the master module is equipped with a function switch. The function switch of the master module that is connected to the door controller is only applicable to reflect settings to all sensor modules connected.
- Make sure to use the function switch when the door is in the fully closed position.

**2.1 Initialization & Learning**
- Initialization: Initialization is necessary when power is supplied for the first time or when there is a change in dipswitch settings. Push the function switch for 2 sec. to initialize the complete sensor configuration.
- Learning: After an initialization or a change in the settings always make a learning cycle by pushing the function switch for 2 sec.

**3. Area depth angle adjustment**
- The angle of each sensor module must be adjusted so that the door steps before it comes into contact with an obstacle. After area angle adjustments, adjust the function as described in chapter 2. Function switch.
- After the adjustment, check the detection area.

**Checking**
- Check the operation according to the chart below.
- The door movement might become unstable right after the learning. The movement becomes stabilized after several openings and closings.
- Always check the detection area to ensure that the proper operation is functioning.

<table>
<thead>
<tr>
<th>Entry</th>
<th>Power OFF</th>
<th>Outside of detection area</th>
<th>Entry into detection area</th>
<th>Info. Area depth angle adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED indicator</td>
<td>Solid Green</td>
<td>Solid Red</td>
<td>Solid Green</td>
<td>Solid Orange</td>
</tr>
</tbody>
</table>

**Troubleshooting**
- The sensor has no function.
- Problem: Wrong power supply voltage.
- Operation: Wrong setting or connection failure.
- Solution: Check the wiring and connections.

- The sensor has not been initialized.
- Problem: Different initialization.
- Solution: Reset the sensor's initialization.

- The sensor has not been connected.
- Problem: Incorrect wiring.
- Solution: Check the dipswitch setting and make sure the sensor is connected with power line.

- The sensor has not been detected.
- Problem: Incorrect wiring.
- Solution: Check the wiring and connections.

- The sensor has not been detected.
- Problem: Incorrect wiring.
- Solution: Check the wiring and connections.

- The sensor has not been detected.
- Problem: Incorrect wiring.
- Solution: Check the wiring and connections.

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