**OA-AXIS II**

**MANUFACTURER’S STATEMENT**

Read the 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 serious injury or death of a person. The meanings of the symbols are as follows.

- **WARNING**: Disregard of warning may cause the improper operation causing death or serious injury of person.
- **CAUTION**: Disregard of caution may cause the improper operation causing injury of person or damage to objects.

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

**WARNING**

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

**NOTE**

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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>OA-AXIS II</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover color</td>
<td>Silver/Black</td>
<td>1st to 3rd rows / Form C relay</td>
</tr>
<tr>
<td>Mounting height</td>
<td>2.0 (8&quot;) to 3.5m (11'3&quot;)</td>
<td>50V, 0.3A Max. (Resistance load)</td>
</tr>
<tr>
<td>Detecion area</td>
<td>See DETECTION AREA</td>
<td>3rd to 5th rows / Form C relay</td>
</tr>
<tr>
<td>Depth adjustment</td>
<td>0° to 44°</td>
<td>50V, 0.3A Max. (Resistance load)</td>
</tr>
<tr>
<td>Power supply</td>
<td>12 to 26VDC (±10%)</td>
<td>Operating temperature: -20 to +50°C (-4°F to 122°F)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>OA-AXIS II ≤ 4W</td>
<td>RPM</td>
</tr>
<tr>
<td>Operating LED</td>
<td>Green/Stand-by</td>
<td>Weight: 320g (11.2oz)</td>
</tr>
<tr>
<td>Blinking Red</td>
<td>1st row detection</td>
<td>Accessories: 1 Cable 3m (9'10&quot;)</td>
</tr>
<tr>
<td>Red</td>
<td>2nd row detection</td>
<td>1 Operation manual</td>
</tr>
<tr>
<td>Orange</td>
<td>3rd to 5th rows detection</td>
<td>2 Mounting screws</td>
</tr>
<tr>
<td>1 Area adjustment tool</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DETECTION AREA**

- **Motion / presence detection**: 1st row, 2nd row, 3rd row, 4th row and 5th row
- **Motion detection**: 1st to 3rd rows, +6°, 3rd to 5th rows, -6°, 4th and 5th rows, -44°

**INSTALLATION**

1. Affix the mounting template at the desired mounting position.
2. Drill two mounting holes of ø3.4mm (01/8")
3. To pass the cable through to the header, drill a wiring hole of ø3.5mm (1/8").
4. Remove the mounting template.
5. Remove the housing cover. Attach the sensor to the mounting surface with two mounting screws.
6. Before leaving the job site, make sure that the sensor is operating properly. In case of any problem, inform the installer or service engineer.

**NOTE**

- The sensor mounting position may be limited depending on the header thickness and the mounting height.
- Do not use the sensor without the cover.

**CAUTION**

- Make sure to affix the mounting template as described in the above chart. Otherwise, it may be dangerous since there may be no presence detection area around the threshold. Install the sensor as low as possible on the header.

**WARNING**

- Before starting the procedure, ensure that the power is turned OFF. When passing through the cable to the hole, make sure not to tear the shield, otherwise it may cause electric shock or breakdown of the sensor.

- Do not use the sensor without the cover.

- Do not use the sensor indoors or use the rain-cover (Separately available) otherwise electric shock or breakdown of the sensor may occur.
1. **Adjustments**

   **Area depth angle adjustment**
   - The detection area depth can be changed by using the area adjustment tool.
   - When adjusting rows close to the door, follow the detection area depth change by the area adjustment tool.

2. **Independent adjustment**

   1-1. **Simultaneous adjustment**
   - When adjusting the 1st to 3rd rows close to the door, follow the detection area depth change by the area adjustment tool.

   1-2. **Independent adjustment**
   - Depth angle adjustment screw
     - For 1st to 3rd rows
     - Adjust with the area adjustment tool (A) as shown above and change the detection area depth by turning the depth angle adjustment screw.

   2. **Simultaneous adjustment**
   - The 5th, 4th, and 3rd rows can be eliminated when using more than one sensor close to each other.
   - The detection area overlaps with that of the header.
   - Adjust the detection area to "Deep" (Outside).

   3. **Independent adjustment**
   - The 5th, 4th, and 3rd rows can be eliminated when using more than one sensor close to each other.
   - The detection area overlaps with that of the header.
   - Adjust the detection area to "Deep" (Outside).

3. **Width detection area adjustment**

   - The 1st and 2nd rows have the presence detection function.
   - The presence detection area can be set to "Outside" by using the area adjustment tool (B) as shown above and changing the depth of the detection area by turning the depth angle adjustment screw.

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

4. **Dipswitch settings**

   - The detection area overlaps with that of the header.
   - Adjust the detection area to "Deep" (Outside).

   - Adjustments
     - The dipswitches correspond to the entries as follows:
     - 1-2: Sensitivity
     - 6-1: Frequency
     - 3-1: Row adjustment

5. **Setting the sensitivity**

   - Normally set to "Middle". Low decreases the sensitivity. Sensitivity is too high. Set the sensitivity lower.

6. **Setting the presence detection timer**

   - The 1st and 2nd rows have the presence detection function.
   - The presence detection timer can be selected from 4 settings.

7. **Setting the frequency**

   - The different frequency for each sensor can be set by using dipswitches 7 and 8.

8. **Setting the area depth**

   - The 4th and 5th rows can be eliminated by combining dipswitches 7 and 8.

   - Always check the area according to the expected entry speed and determine the appropriate number of rows.

9. **Setting the immunity**

   - When turning on the power, always check the detection area to ensure proper operation.

10. **Troubleshooting**

    - When using more than one sensor close to each other, set the different frequency for each sensor by combining dipswitches 7 and 8.

    - Always adjust the area to the expected entry speed and determine the appropriate number of rows.

    - When setting motion and motion / presence detection area separately, make sure that there is no gap between two areas.

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**Inform Building Owner / Operator of the Following Items**

1. **Warning**
   - Always keep the detection window clean. If dirty, wipe the window lightly with a damp cloth.
   - Set the sensitivity lower.

2. **Checking**
   - Turn the detection window clean. If dirty, wipe the window lightly with a damp cloth.
   - Set the sensitivity lower.