OA-AXIS T

SPECIFICATIONS

- Model: OA-AXIS T
- Activation output: When 3rd, 4th or 5th row detects, Form A relay
- Cover color: Black
- Height: 2.9 (F12) x 3.0 (F12) x 20 [mm]
- Maximum operation temperature: +20 to +55°C (+4 to 131°F)
- Power supply: 24VDC

INSTALLATION

1. Attach the mounting template at the desired mounting position. (When setting the detection area close to the door, mount the sensor according to the chart below)
2. Evenly mount the sensor, aligning the sensor unit with the receiver unit.
3. To pass the cable through the header, drill two holes 8 mm in diameter (8 mm). Attach the cable to the header with a cable tie. (5 mm)
4. Mount the sensor in place. (When using the sensor for detection, make sure it is not obstructed by a wall, furniture, etc.)
5. Connect the power supply to the sensor.

NOTE

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

OUTER DIMENSIONS AND PART NAMES

- Dimensions:
- (1) Connector
- (2) Mounting holes
- (3) 3rd, 4th and 5th row detection
- (4) Sensor detect
- (5) 2nd detection
- (6) Signal indicator
- (7) Sensor failure
- (8) Hanger
- (9) Frame

WARNING

- Do not use without the cover. When using the cable knock-outs, install the sensor indoors or use the rain-cover. (See also Electric shock)

CAUTION

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

DANGER OF ELECTRIC SHOCK

- Before starting the procedure, make sure that the power is turned OFF. When passing the cable through the hole, do not bear the cable, otherwise it may cause electric shock or breakage of the sensor.

COMPILED STANDARDS AND EXTRACT FROM EC DECLARATION OF CONFORMITY

EN ISO 7303:1986/2012
EMC Directive 2014/30/EU
Notified Body 0841 - TÜV NORD CERT GmbH Langenwerkstr. 20 45411 Essen Germany
A. Mecklenburg General Manager

NOTE

- The detected area may become smaller depending on the ambient light, the color of the object, or the object's ability to reflect light.

- The actual detection area may become smaller depending on the ambient light, the color of the object, or the object's ability to reflect light.
Adjustments

1. Area depth angle adjustment

When adjusting the 1st row close to the door, see 3-1 Installation mode for the easier adjustment.

**NOTE**
Make sure that the detection area does not overlap with the doorknob, and there is no highly reflecting object near the detection area otherwise ghosting/high sensitivity may occur.

1-1. Independent adjustment

1st to 3rd rows

<table>
<thead>
<tr>
<th>Depth angle adjustment screw</th>
<th>Shallow</th>
<th>Deep</th>
</tr>
</thead>
</table>

Use the area adjustment tool (A) as shown above to change the area depth angle for the 1st to 3rd rows.

4th and 5th rows

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<tr>
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Use the area adjustment tool (B) as shown above to change the area depth angle for the 4th and 5th rows.

1-2. Simultaneous adjustment

For the simultaneous adjustment of the 1st to 5th rows, use the adjustment tool (C).

**REFERENCE**
Area depth adjustment with INFRARED FINDER (Separately available)

1. Turn the depth angle adjustment screw to the right (Deep) to place the detection area most away from the door.
2. Set INFRARED FINDER sensitivity to "m" (long) and place it on the floor as shown below.

![Diagram of area depth adjustment with INFRARED FINDER](image)

3. Turn the depth angle adjustment screw to the left (Shallow) until the emitting area is placed at the position where INFRARED FINDER is in the low detection status (Slow Rise Switch)

2. Area width adjustment

1st to 3rd rows

<table>
<thead>
<tr>
<th>Width adjustment screws</th>
<th>Left</th>
<th>Right</th>
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4th and 5th rows

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**NOTE**
When adjusting the width adjustment screws, make sure to turn until it clicks otherwise the proper operation may not be obtained. Otherwise, it cannot be eliminated separately.

After changing the dipswitch settings, make sure to push the function switch for 2 seconds.

2-1. Setting the sensitivity

<table>
<thead>
<tr>
<th>Sensitivity</th>
<th>Low</th>
<th>Middle</th>
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For example:
- Low: [2.5m (V)], Middle: [2.7m (V)], High: [2.9m (V)]

Special attention to the setting is required when the door is used often by the elderly or children. Please adjust the sensitivity and the presence detection time according to your risk assessment.

2-2. Setting the presence timer

The 1st and 2nd rows have the presence detection function.

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To enable the presence detection, do not enter the detection area for 10 seconds after setting the timer.

2-3. Setting the frequency

When using more than one sensor close to each other, set the different frequency for each sensor by dipswitches S5 and S6.

2-4. Setting the row adjustment

Set the depth rows with switches 7 and 8.

2-5. Setting the immunity

Set dipswitch 9 to "OFF" when the sensor operates by itself (Ghosting).

**NOTE**
When dipswitch 9 is set to "ON", the actual detection area may become smaller.

2-6. Setting the self monitoring

When the door remains open and the LED indicator shows fast or slow green blinking, please refer to the TROUBLESHOOTING. If the self monitoring system shows fast or slow green blinking, please refer to TROUBLESHOOTING.

**NOTE**
To comply with EN 16035, dipswitch 10 must be set to "Enable".

3. Setting the safety output (to door controller)

Dipswitch 11 is for the Safety output (to door controller).

3-7. Setting the Safety output (from door controller)

Dipswitch 12 is for the Safety input (from door controller).

**NOTE**
The delay time between Safety Input and Safety output is 10msec...

3-9. Settings the direction recognition

When Dipswitch 13 is set to "Unidirectional" the sensitivity is activated. This function enables the door to stop faster if a person walks away from the door.

**NOTE**
Uni-directional function is disabled in case the detection at 1st and/or 2nd rows continues for more than 1sec...

3-10. Setting the Activation output

Dipswitch 14 is for the Activation output (to door controller).

3-11. Installation mode

Set dipswitch 16 to "ON" to adjust the 1st row. During the Installation mode only the 1st row remains active and the operation indicator shows yellow.

After setting the row set dipswitch 16 "OFF".

Checking

Check the operation in the operation mode according to the chart below.

**WARNING**
3. Always keep the detection window clean. If dirty, wipe the window with a damp cloth. Do not use any cleaner / solvent.
4. Do not wash the sensor with water.
5. Do not disassemble, install or repair the sensor yourself. Otherwise electric shock may occur.
6. When the operation indicator blinks green, contact your installer or service engineer.
7. When operating, your installer or service engineer may check the settings.
8. Do not paint the detection window.
9. When turning on, avoid violent detection area to ensure the proper operation.
10. Do not place any objects that move or emit light in the detection area, (e.g., Plants, illumination, etc.)

TROUBLESHOOTING

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<th>Possible cause</th>
<th>Possible countermeasures</th>
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