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

- CAUTION: Warnings of caution may cause the improper operation causing death or serious injury of a person or damage to objects.
- Warning: Special attention is required to the section of this symbol.
- NOTE: It is required to check the operation manual if this symbol is shown on the product.

NOTE

1. This product is a non-contact switch intended for header mount or wall mount for use on an automatic sliding door. Do not use for any other applications.
2. When setting the sensor’s detection area, make sure that there is no traffic around the installation site.
3. Before leaving the installation site, make sure that the product is operating properly and instruct the building owner/operator on proper operation of the door and the product.
4. Only use the product as specified in the operation manual provided.
5. Be sure to install and adjust the sensor in accordance with the local laws and standards of the country in which the product is installed.
6. If wiring is to be exposed, break the knockout.
7. Drill two mounting holes of ø1/8” (ø3.4mm).

SPECIFICATIONS

- Model: OA-FLEX T
- Cover color: Black
- Mounting height: 6”(152) to 8”(203) above floor
- Detection area: See DETECTION AREA
- Detection method: Active infrared reflection (1)
- Area angle adjustment: Depth 8° to 18°
- Power supply: 12 to 24VAC ±10% (50 / 60Hz)
- Power consumption: <= 2.0W (< 2.0VA at AC)
- Test input: Opto coupler

TABLE

<table>
<thead>
<tr>
<th>Operation indicator</th>
<th>Operation indicator color</th>
<th>Time</th>
<th>Time</th>
</tr>
</thead>
</table>
| Status              |                          | 1sec.| 2sec.
| Standby(motor-driven)| Yellow Blinking          |
| Standby(Operation-mode)| Green                   |
| BLUZONE(1st row detection) | Blue                    |
| 2nd row detection  | Red Blinking             |
| 3rd row detection  | Red Blinking             |
| 4th-6th row detection| Grey Blinking            |
| Sensor failure      | Fast Green Blinking      |

NOTE

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2. When setting the sensor’s detection area, make sure that there is no traffic around the installation site.
3. Before leaving the installation site, make sure that the product is operating properly and instruct the building owner/operator on proper operation of the door and the product.
4. Only use the product as specified in the operation manual provided.
5. Be sure to install and adjust the sensor in accordance with the local laws and standards of the country in which the product is installed.
6. If wiring is to be exposed, break the knockout.
7. Drill two mounting holes of ø1/8” (ø3.4mm).

OPERATION

1. Plug the connector.
2. Supply power to the sensor. Adjust the detection area and set the dipswitches. (See ADJUSTMENTS 3. Dipswitch settings)
3. Place the housing cover. If wiring is to be exposed, break the knockout.

WARNING

1. Plug the connector.
2. Supply power to the sensor. Adjust the detection area and set the dipswitches. (See ADJUSTMENTS 3. Dipswitch settings)
3. Place the housing cover. If wiring is to be exposed, break the knockout.

NOTICE

- Disregard of warning may cause the improper operation causing death or serious injury of a person or damage to objects.
- 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.

NOTE

- Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the equipment.
- 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.
- The sensor may not be activated when the entering speed of the object or a person is slower than 50mm / sec. or faster than 1500mm / sec.

INSTALLATION

1. Align the mounting template at the desired mounting position.
2. Drill two mounting holes of ø1/4” (ø9mm).
3. To pass the cable through the header, drill a wiring hole of ø0.2” (ø5mm).
4. Remove the mounting template.
5. Remove the housing cover. Fix the sensor to the mounting surface with the two mounting screws.

WARNING

- Do not make the sensor too close to the bottom of the door.
- Risk of getting caught.

NOTE

- Make sure to connect the main power supply to the sensor and switch the power on. When passing the cable through the hole, do not tear the shield, otherwise it may cause electric shock or breakdown of the sensor.
- Make sure the power is turned OFF. Before starting the sensor. Before starting the sensor, make sure that the power is turned OFF. When passing the cable through the hole, do not tear the shield, otherwise it may cause electric shock or breakdown of the sensor.

WARNING

- Danger of electric shock.
ADJUSTMENTS

1. Area angle adjustment

1.1. Area depth angle adjustment

When adjusting the 2nd row close to the door, see dipswitch 16 in Dipswitch settings table for the easier adjustment.

Make sure that the detection area does not overlap with the door / header, and there is no highly reflecting object near the detection area otherwise ghosting / signal saturation may occur.

1.2. Area width angle adjustment

The angle of the detection area can both be moved 7° either left or right in 2 steps.

When setting the detection area width, make sure to turn the adjustment screws until it clicks. 

Area settings cannot be eliminated separately, neither can 3rd to 6th rows.

Area adjustment

Adjust the detection area width with the adjustment screws.

When using more than one sensor close to each other, set the frequency different for each sensor.

When the operation indicator blinks Green, contact your installer or service engineer.

3. Dipswitch settings

Dipswitch settings table

<table>
<thead>
<tr>
<th>Function</th>
<th>Setting</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipswitch 1: Sensitivity</td>
<td>Low</td>
<td>Set the sensitivity according to the mounting height.</td>
</tr>
<tr>
<td>Dipswitch 2: Presence timer</td>
<td>30sec.</td>
<td>The presence timer is applied to BLUEZONE (1st row), 2nd and 3rd row. The presence timer can be selected from 4 settings.</td>
</tr>
<tr>
<td>Dipswitch 4: Frequency</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>Dipswitch 5: Frequency</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Dipswitch 6: Row adjustment</td>
<td>5rows</td>
<td>Set the depth rows with dipswitches 6 and 7.</td>
</tr>
<tr>
<td>Dipswitch 7: Immunity</td>
<td>OFF</td>
<td>Set dipswitch 8 to &quot;ON&quot; when the sensor operates by itself (GHOSTING).</td>
</tr>
<tr>
<td>Dipswitch 9: Activation output</td>
<td>N.O.</td>
<td>Dipswitch 9 is for the Activation output to door controller.</td>
</tr>
<tr>
<td>Dipswitch 10: Safety output</td>
<td>N.O.</td>
<td>Dipswitch 10 is for the Safety output (to door controller).</td>
</tr>
<tr>
<td>Dipswitch 11: Safety input</td>
<td>High</td>
<td>Dipswitch 11 is for the Safety input (from door controller).</td>
</tr>
<tr>
<td>Dipswitch 12: Presence area</td>
<td>1st to 3rd row</td>
<td>Set dipswitch 12 to &quot;ON&quot; when the presence timer is applied to all areas.</td>
</tr>
<tr>
<td>Dipswitch 13: N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dipswitch 14: Simultaneous output</td>
<td>OFF</td>
<td>When Dipswitch 14 is set to &quot;OFF&quot;, both Activation &amp; Safety output will operate simultaneously regardless of detection area. But only Safety output will respond back with Safety output when it receives Safety input.</td>
</tr>
<tr>
<td>Dipswitch 15: BLUEZONE (1st row)</td>
<td>OFF</td>
<td>When Dipswitch 15 is set to &quot;ON&quot;, the BLUEZONE (1st row) is active and looks through the threshold.</td>
</tr>
<tr>
<td>Dipswitch 16: Installation mode</td>
<td>OFF</td>
<td>Set dipswitch 16 to &quot;ON&quot; to adjust the 2nd row. During the installation mode only the 2nd row remains active and the operation indicator shows yellow. After setting the row switch dipswitch 16 &quot;OFF&quot;.</td>
</tr>
</tbody>
</table>