**OA-FLEX AIR T**

**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.

- **WARNING**
  - Risk of death or serious injury
  - Risk of death or serious injury or damage to property

- **CAUTION**
  - Risk of death or serious injury
  - Risk of death or serious injury or damage to property

- **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.

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 turning the power ON, check the wiring to prevent damage or malfunction of equipment connected to 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. 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.
7. The product settings can only be changed by an installer or service engineer. When changed, the changed settings and the date shall be registered in the maintenance logbook accompanying the door.

**WORKING PRINCIPLE**

BLUEZONE is only activated while Activation output is emitted. When no detection, BLUEZONE is deactivated.

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**WARNING**

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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>OA-FLEX AIR T</th>
<th>Safety output</th>
<th>Opto-coupler (PNP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover color</td>
<td>Silver / Black</td>
<td>Voltage</td>
<td>5 to 30V DC</td>
</tr>
<tr>
<td>Mounting height</td>
<td>2.01 (6'7&quot;)</td>
<td>Current</td>
<td>100 ± 10mA Max.</td>
</tr>
<tr>
<td>Detection area</td>
<td>2 x 3.00 (9'10&quot;)</td>
<td>Resistance</td>
<td>10 ± 10Ω</td>
</tr>
<tr>
<td>Detection method</td>
<td>ActivelyInvadedReflected (2°)</td>
<td>Dark current</td>
<td>600mA Max.</td>
</tr>
<tr>
<td>Area angle adjustment</td>
<td>Depth : ±8° Width : ±6°</td>
<td>Operating temperature</td>
<td>-20 to +55°C (-4 to 131°F)</td>
</tr>
<tr>
<td>Height : 67</td>
<td>Operating humidity</td>
<td>&gt; 80%</td>
<td></td>
</tr>
<tr>
<td>Width : 42</td>
<td>Noise level</td>
<td>&gt; 70dB</td>
<td></td>
</tr>
<tr>
<td>Area angle adjustment</td>
<td>Depth : ±14° Width : ±2°</td>
<td>Output hold time</td>
<td>Approx. 0.5sec.</td>
</tr>
<tr>
<td>Height : 164</td>
<td>Response time</td>
<td>&gt; 0.3sec.</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>12 to 24VAC 10% (50 / 60Hz)</td>
<td>IP rating</td>
<td>IP54</td>
</tr>
<tr>
<td>Parameter</td>
<td>Category</td>
<td>2 EN ISO 13849-1:2015</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>12 to 30VDC ±10%</td>
<td>Performance level</td>
<td>EN ISO 13849-1:2015</td>
</tr>
<tr>
<td>Safety input</td>
<td>Opto-coupler</td>
<td>Accessories</td>
<td>1 Operation manual</td>
</tr>
<tr>
<td>Voltage : 5 to 30VDC</td>
<td>Form A relay</td>
<td>2 Mounting screws</td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>6 Max.</td>
<td>1 Mounting template</td>
<td></td>
</tr>
<tr>
<td>Safety output</td>
<td>3rd row detection (1°)</td>
<td>1 Area adjustment tool</td>
<td></td>
</tr>
<tr>
<td>Emitting spots</td>
<td>50V 0.3A Max. (Resistance load)</td>
<td>1 Cable 3m (10')</td>
<td></td>
</tr>
</tbody>
</table>

**OPERATION TABLE**

<table>
<thead>
<tr>
<th>Operating indicator tool</th>
<th>Operation indicator color</th>
<th>5 sec.</th>
<th>1sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator insulator color</td>
<td>Yellow/Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety by installation (male)</td>
<td>YELLOW/BLUEZEONE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLUEZONE 1st row detection (3°)</td>
<td>BLUEZONE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd and 3rd row detections</td>
<td>DIPSWITCH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4th row detection</td>
<td>ORANGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5th and 6th row detection</td>
<td>PURPLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal indication (FLEX EYE)</td>
<td>BLUE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal indication (FLEX EYE)</td>
<td>SLOW PURPLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor failure</td>
<td>RED/GREEN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**

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

1. "Installation height up to 3.0m (9’10") when no need for EN 16005 compliance.
2. "BLUEZONE (1st row), 2nd and 3rd rows have a presence detection function.
3. "When using this sensor, the sensor has to be connected to a door system which has the SELV circuit.
4. "Overcurrent protection with less than 2A. "5. "See BLUEZONE AREA.

**OPERATION INSTRUCTIONS**

1. Plug the connector.
2. Power supply to the sensor. Adjust the detection area and set the dipswitches.

**WARNING**

- Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the sensor.
1. Set the detection area sensitivity lower.
2. Adjust the detection area to "Deep" (Outside).

**Dipswitch settings table**

<table>
<thead>
<tr>
<th>ADJUSTMENTS</th>
<th>1-2</th>
<th>3-2</th>
<th>6rows</th>
<th>6</th>
<th>7</th>
<th>16</th>
<th>14</th>
<th>13</th>
<th>12</th>
<th>9</th>
<th>8</th>
<th>15</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLEX EYE angle adjustment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area angle adjustment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**NOTE**

- The adjustment screws can both be moved 7° either left or right in 2 steps.
- When adjusting the 2nd row close to the door, otherwise the sensor may not detect when a hand is approached.

**Dipswitch settings**

- Dipswitch 3, 6, 9 for detection area.
- Dipswitch 4, 5 for area detection.
- Dipswitch 7, 8, 10 for mounting height.
- Dipswitch 11 for presence timer.
- Dipswitch 12 for safety input.
- Dipswitch 13 for safety output.
- Dipswitch 14 for activation output.
- Dipswitch 15 for OFF/ON mode.

- **Setting** dipswitch 10 to "Enable".
- **Operation indicator** shows Fast/Slow Green (Double slide door) and Purple/Shallow (Single slide door) when the sensor is in operation.
- **Indicator** shows when the sensor is in OFF/ON mode.

**Frequency**

- 1.0 (3'3")
- 2.0 (6'7")
- 2.5 (8'2")

**Operation**

- 180 sec.
- 300 sec.

**Installation mode**

- When setting the detection area width, the area angle adjustment can be selected.
- The presence timer can be selected for each sensor.

**Troubleshooting**

- Door does not open when a person enters.
- Door opens when a person enters and the detection area is too high.
- Door does not open when a person enters (Ghosting).
- Door opens when a person enters (INFRARED FINDER is in the low detection status (Slow Red Blinking)).

**WARNING**

- Do not disassemble, rebuild or repair the sensor yourself, otherwise electric shock may occur.
- Always keep the detection window clean. If dirty, wipe the window with a damp cloth. (Do not use any cleaner / solvent.)
- Do not wash the sensor with water.
- Always contact your installer or service engineer when changing the settings.

**Manufacturer**

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**INFORM BUILDING OWNER / OPERATOR OF THE FOLLOWING ITEMS**

- Safety output (N.O.9)
- Activation output (N.C.9)
- Power OFF Outside of BLUEZONE
- Detection area
- Outside of BLUEZONE
- Motion / Presence detection active
- 1st to 3rd row
- 4th to 6th row
- Door 1
- Door 2
- Proprietary and all rights reserved.

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