**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**
  - Disregard of the warning symbol can cause improper operation which may cause death or serious injury.

- **CAUTION**
  - Disregard of the caution symbol can cause improper operation which may cause injury of a person or damage the product.

- **NOTICE**
  - Special attention is required to the section of this symbol.

**NOTE**

1. This product is a non-contact switch intended for header mount or wall mount for use on an automatic sliding door.
2. Do not use for any other applications.
3. This product is a non-contact switch intended for header mount or wall mount for use on an automatic sliding door.
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.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>X-ZONE</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Mounting height</td>
<td>1000 (3'3&quot;)</td>
</tr>
<tr>
<td>Activation output</td>
<td>50V 0.3A Max.</td>
</tr>
<tr>
<td>Depth angle</td>
<td>0.25 (10&quot;)</td>
</tr>
<tr>
<td>Detection method</td>
<td>Microwave</td>
</tr>
<tr>
<td>Power supply</td>
<td>12 to 30VAC 10% (50 / 60 Hz)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>2.5W (&lt; 4VA at AC)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>80%</td>
</tr>
<tr>
<td>Response time</td>
<td>0.1 sec.</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-30 to +55°C (-31 to 131°F)</td>
</tr>
<tr>
<td>Maximum distance (Y)</td>
<td>300 (9'10&quot;)</td>
</tr>
</tbody>
</table>

**DETECTION AREA**

<table>
<thead>
<tr>
<th>Detection method</th>
<th>Blue-zone</th>
<th>White zone</th>
<th>Microwave</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response time</td>
<td>0.1 sec.</td>
<td>&lt; 0.1 sec.</td>
<td>&lt; 0.09 sec</td>
</tr>
<tr>
<td>Depth angle</td>
<td>0.25 (10&quot;)</td>
<td>0.13 (5&quot;)</td>
<td>0.09 (4&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.11 (4&quot;)</td>
<td>0.09 (4&quot;)</td>
<td>0.09 (4&quot;)</td>
</tr>
<tr>
<td>Response time</td>
<td>0.1 sec.</td>
<td>&lt; 0.1 sec.</td>
<td>&lt; 0.09 sec</td>
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<tr>
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<td>0.09 (4&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.11 (4&quot;)</td>
<td>0.09 (4&quot;)</td>
<td>0.09 (4&quot;)</td>
</tr>
</tbody>
</table>

**Operation indicator table**

<table>
<thead>
<tr>
<th>Operation indicator</th>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation indicator</td>
<td>Green</td>
<td>Normally closed (N.C.)</td>
</tr>
<tr>
<td>Operation indicator</td>
<td>Yellow</td>
<td>Normally open (N.O.)</td>
</tr>
<tr>
<td>Operation indicator</td>
<td>Blue</td>
<td>Common (COM)</td>
</tr>
</tbody>
</table>

**WARNING**

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

**NOTE**

1. Plug the connector.
2. Supply power to the sensor. Adjust the detection area and set the dipswitches.
3. Place the housing cover. If wiring is to be exposed, break the knockout.
4. 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 threshold. Install the sensor as low as possible on the header.

**INSTALLATION**

1. Drill two mounting holes in ø3.4mm (ø1/8`).
2. Place the housing cover.
3. Wire the cable to the door controller as shown below.
4. Remove the housing cover. Fix the sensor to the mounting surface with the two mounting screws.

**NOTE**

- Make sure not to mount the sensor lower than the bottom of the header.

**WARNING**

Before starting the procedure, 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.
Area depth angle adjustment

When adjusting the 2nd row close to the door, follow Table1 dipswitch16 for the easier adjustment.

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

1-1 AIR adjustment

Depth angle adjustment screw for the AIR area

Use the area adjustment tool (A) as shown above to change the area depth angle.

1-2 Microwave adjustment

Depth angle adjustment screw for the microwave area

Use the area adjustment tool (B) as shown above to change the area depth angle.

2-1 AIR adjustment

To adjust the AIR detection area width, use the adjustment screws as shown in the picture below.

2-2 Microwave adjustment

To adjust the microwave detection area width, use the narrow lens as shown in the picture before, referring to the following procedures.

For detection area, see DETECTION AREA in the front page.

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

Adjustment screws as shown in the picture above.

Adjust the microwave detection area with potentiometer.

Turning it clockwise increases the sensitivity and turning counterclockwise lowers the sensitivity.

NOTE

- ADJUSTMENTS 1, 2 ,3 & 4
- Check Table1 dipswitch 5, 6.
- Check the wires and connector.
- Check the area and connector.
- Check Table1 dipswitch 1, 2, 3, 4 for the easier adjustment.

3

Microwave sensitivity

Adjust the microwave detection area with potentiometer.

Turning it clockwise increases the sensitivity and turning counterclockwise lowers the sensitivity.

NOTE

- ADJUSTMENTS 1, 2 ,3 & 4
- Check Table1 dipswitch 5, 6.
- Check the wires and connector.
- Check the area and connector.
- Check Table1 dipswitch 1, 2, 3, 4 for the easier adjustment.

4

Dipswitch settings

Table1

AR switches  | Microwave settings  | Other settings
------|---------------------|------------------
Dipswitch 2 | Setting | Comment |
Dipswitch 3 | Setting | Comment |
Dipswitch 4 | Setting | Comment |
Dipswitch 6 | Setting | Comment |
Dipswitch 9 | Setting | Comment |
Dipswitch 10 | Setting | Comment |
Dipswitch 11 | Setting | Comment |
Dipswitch 12 | Setting | Comment |
Dipswitch 13 | Setting | Comment |
Dipswitch 14 | Setting | Comment |
Dipswitch 15 | Setting | Comment |
Dipswitch 16 | Setting | Comment |

FCC WARNING(For USA)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- NOTICE-

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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