**DETECTION AREA**

<table>
<thead>
<tr>
<th>Emission area</th>
<th>(inch / cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.00 (0)</td>
</tr>
<tr>
<td>B</td>
<td>0.15 (4)</td>
</tr>
<tr>
<td>C</td>
<td>0.38 (1)</td>
</tr>
<tr>
<td>D</td>
<td>0.74 (2.3)</td>
</tr>
<tr>
<td>E</td>
<td>1.33 (4)</td>
</tr>
<tr>
<td>F</td>
<td>1.66 (5.2)</td>
</tr>
<tr>
<td>H</td>
<td>0.88 (2.7)</td>
</tr>
<tr>
<td>M</td>
<td>2.32 (7.7)</td>
</tr>
<tr>
<td>X</td>
<td>0.19 (0.75)</td>
</tr>
</tbody>
</table>

X is the distance between the 1st row and the mounting surface.

**Installation**

1. Affix the mounting template at the desired mounting position.
2. When setting the detection area close to the door, mount the sensor according to the chart below.
3. Drill two mounting holes of 4.4mm (1/5").
4. Remove the mounting template.
5. Remove the housing cover. Fix the sensor to the mounting surface with the two mounting screws.

** detective.pasaa2-manual.pdf - page 4/39 **
1-1. Independent adjustment

1st to 3rd rows

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

Depth adjustment screw

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 tool adjustment tool (C).

REFERENCE

1. Turn the area adjustment tool to the right (Shallow) to distance the detection area away from the door.
2. Set INFRARED FINDER sensitivity to “H” (High) and set it on the floor as shown above.
3. Turn the area adjustment tool to the left (Deep) and position the area where INFRARED FINDER is in the low detection status. (Shallow Red blinking).

NOTE

Be careful not to touch the area adjustment tool by mistake. If you do, the detection area may become irregular.

2. Area width adjustment

1st to 3rd rows  4th and 5th rows

When adjusting the width adjustment screws, make sure to turn them clockwise otherwise the proper operation may not be achieved.

NOTE

3. Dipswitch settings

Follow these steps to change the settings of the dipswitches.

1. Change the function key from the “Operation mode” to the “Setting mode”.
2. Change the dipswitch settings.
3. When the setting is finished, change the function key back to the “Operation mode”.

NOTE

When the above procedures (1-3) are not followed, an error (Red & Green blinking) occurs. Make sure to set the sensor only in the “Operation mode”.

Function key

Setting mode  Operation mode

4. Setting the sensitivity

Refer to the chart below for the suitable sensitivity to your installation environment.

Low  Middle  High  S-High

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>m (feet, inch)</th>
<th>Low</th>
<th>Middle</th>
<th>High</th>
<th>S-High</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 (6' 6&quot;)</td>
<td></td>
<td>2</td>
<td>1 (2')</td>
<td>0</td>
<td>0 (1')</td>
</tr>
<tr>
<td>2.2 (7' 2&quot;)</td>
<td></td>
<td>2</td>
<td>1 (2')</td>
<td>0</td>
<td>0 (1')</td>
</tr>
<tr>
<td>2.5 (8' 2&quot;)</td>
<td></td>
<td>2</td>
<td>1 (2')</td>
<td>0</td>
<td>0 (1')</td>
</tr>
<tr>
<td>3.0 (9' 10&quot;)</td>
<td></td>
<td>1</td>
<td>0 (0')</td>
<td>0</td>
<td>0 (0')</td>
</tr>
</tbody>
</table>

For example

Carpet  Occasional floor  Marble

NOTE

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 timer according to your risk assessment.

3-2. Setting the presence detection timer

The 1st and 2nd rows have the presence detection function. To comply with EN 16059, set the timer to “30sec.” or more.

NOTE

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

3-3. Setting the frequency

When using more than two sensors close to each other, set the different frequency for each sensor by dipswitch 5 and 6.

3-4. Setting the row adjustment

Set the depth adjustment with dipswitches 7 and 8.

NOTE

When "Browse" are selected, the activation output is disabled.

3-5. Setting the immunity

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

NOTE

When the door still remains open, set dipswitch 10 to “Disable”.

3-6. Setting the self monitoring

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

NOTE

If the door still remains open, set dipswitch 10 to “Enable.”

3. Setting the test input, safety / test output and test input delay time

Set dipswitches 11 to 13 according to the door controller.

CHECKING

3-9. Installation mode

Set dipswitch 14 to "ON." (Normally Open) or "NC." (Normally Closed).

NOTE

When "ON." is selected, the activation output is disabled.

When "NC." is selected, the sensor remains closed even when the presence detection function or the sensor is activated.

Door operation  Operation indicator

None  Strong power supply voltage

ON OFF  Check the wiring and connection

WARNING

1. Always keep the detection window clean. If dirty, wipe the window with a damp cloth. (Do not use any cleaner or solvent.)
2. Do not wash the sensor with water.
3. Do not disassemble, rebuild, or repair the sensor yourself; otherwise electric shock may occur.
4. When the operation indicator blinks Green, contact your installer or service engineer.
5. Always contact your installer or service engineer when changing the settings.
6. Do not paint the detection window.

NOTE

1. When changing the power ON, always test the detection area to ensure the proper operation.
2. Do not place any objects that move or emit light in the detection area. (e.g. Plant, illumination, etc.)

3. TROUBLESHOOTING

Try the following measures. If the problem still persists, hard-reset the sensor (Turn the power OFF and ON again).

- Check the wiring and connection
- Check the area where the sensor is installed
- Contact your installer or service engineer

<table>
<thead>
<tr>
<th>Detection area</th>
<th>Possible cause</th>
<th>Possible countermeasures</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>W rong power supply voltage</td>
<td>Set to the stated voltage.</td>
</tr>
<tr>
<td>None</td>
<td>Wrong setting of function key</td>
<td>Set to the “Operation mode”.</td>
</tr>
<tr>
<td>None</td>
<td>Dirty detection window</td>
<td>Wipe the window with a damp cloth. (Do not use any cleaner or solvent.)</td>
</tr>
<tr>
<td>None</td>
<td>Sensor failure</td>
<td>Check the wires and connector.</td>
</tr>
<tr>
<td>None</td>
<td>Slow &amp; Green blinking</td>
<td>Remove highly reflecting objects from the detection area. Or lower the sensitivity(”). Or change the area depth angle.</td>
</tr>
<tr>
<td>None</td>
<td>Signal saturation (1st or 2nd row)</td>
<td>Remove highly reflecting objects from the detection area. Or lower the sensitivity(”). Or change the area depth angle.</td>
</tr>
<tr>
<td>None</td>
<td>Detection area overlaps with door / header</td>
<td>Adjust the detection area to “Deep” (Outside).</td>
</tr>
<tr>
<td>None</td>
<td>Signal saturation (3rd, 4th or 5th row)</td>
<td>Remove highly reflecting objects from the detection area. Or lower the sensitivity(”). Or change the area depth angle.</td>
</tr>
<tr>
<td>None</td>
<td>Entry into 2nd row</td>
<td>Set to “ON.” or “OFF.”</td>
</tr>
<tr>
<td>None</td>
<td>Area detection active (from door controller)</td>
<td>Check the wiring and connection.</td>
</tr>
<tr>
<td>None</td>
<td>Motion detection active (from door controller)</td>
<td>Check the wiring and connection.</td>
</tr>
<tr>
<td>None</td>
<td>Motion / Presence detection active (from door controller)</td>
<td>Check the wiring and connection.</td>
</tr>
</tbody>
</table>

TROUBLESHOOTING

ADJUSTMENTS

1. Area depth angle adjustment

Depth adjustment screw

NOTE

When adjusting the 1st row close to the door, follow 2-1 Installation module for the easier adjustment.

NOTE

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.

INFRARED FINDER is in the low detection status (Slow Red blinking).

NOTE

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