Checking

Check the operation in the relevant operation mode according to the chart below. The following are representative images.

<table>
<thead>
<tr>
<th>Operation indicator color</th>
<th>Status</th>
<th>Operation indicator color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slow Green &amp; Blue blinking</td>
<td>Connecting to the app</td>
<td>Slow Green &amp; Blue blinking</td>
</tr>
<tr>
<td>Slow Green blinking</td>
<td>Signal saturation</td>
<td>Slow Green blinking</td>
</tr>
<tr>
<td>Once Green blinking</td>
<td>Link error</td>
<td>Once Green blinking</td>
</tr>
<tr>
<td>Fast Green blinking</td>
<td>Device error</td>
<td>Fast Green blinking</td>
</tr>
</tbody>
</table>

If the sensor is not functioning well, see the Troubleshooting section in the web manual.

Inform the building owner/operator of the following items

1. Do not wash the sensor with water.
2. Do not disassemble, rebuild, or repair the sensor yourself as it may result in electric shock.
3. Always keep the detection window clean. If dirty, wipe it with a damp cloth. Do not use any cleaners/solvent.
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. When turning the power ON, always walk-test the detection area to ensure the proper operation.
7. Do not place any objects that move or emit light in the detection area. (e.g. plants, illuminations, etc.)

Manufacturer’s statement

1. This product is a non-contact switch intended for mounting on a wall/ceiling for use on an industrial door. Do not use for any other applications.
2. When setting the sensor detection area, ensure there is no traffic around the installation site.
3. Before turning the power ON, check the wiring to prevent damage or malfunction of any 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 being installed.
6. Before leaving the installation site make sure that the product is operating properly and instruct the building owner/operator on the proper operation of the door and the product.
7. With the product settings can only be changed by an installer or service engineer. When changed, the amended settings and date will be registered in the maintenance logbook that accompanies the door.

NOTE

- Do not paint the detection window.
- Do not disassemble, rebuild or repair the sensor yourself as it may result in electric shock.
- Always keep the detection window clean. If dirty, wipe it with a damp cloth. Do not use any cleaners/solvent.
- Always contact your installer or service engineer when changing the settings.
- When turning the power ON, always walk-test the detection area to ensure the proper operation.
- Do not place any objects that move or emit light in the detection area. (e.g., plants, illuminations, etc.)

Specifications

- Model: OAM-EXPLORER
- Color: Black
- Operating temperature: -35 to +55 °C (-31 to 131 °F)
- Mounting height: 2.0 m to 6.0 m (6’7” to 19’8”)
- Transmitter frequency: 24.2 GHz
- Transmitter radiated power: < 12.7 dBm
- Detection area: Microwave Doppler effect
- Depth angle adjustment: Microwave area 0 to +50°
- Power supply: 12 to 24 VAC ±10 % (50/60 Hz)
- Power consumption: ≤ 2.5 W (< 3.5 VA at AC)
- Weight: 660 g (21.2 oz)
- Accessories: 1 Operation manual
- Mounting screws: 2

EU declaration of conformity

OPTEX hereby declares that the radio equipment type OAM-EXPLORER series complies with RED 2014/53/EU.

NOTE

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Adjustments

1. **Depth angle adjustment**
   The sensor has a scale and the mounting bracket has two notches. (*) When adjusting the depth angle, match the scale to the notch according to the mounting position.

   1. Loosen the AIR/Microwave fix screw.
   2. Adjust the AIR/Microwave depth angle.
   3. Fasten the AIR/Microwave fix screw.

   ![Diagram](image)

   When adjusting the 1st row close the door and set the installation mode to "ON" via the app. After adjusting, set to "OFF." The AIR depth angle and Microwave depth angle are adjusted independently.

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

   ![Diagram](image)

   - Mounting holes: ø2.28 (7/32")
   - ø5 (3/16")

   * This is the minimum dimension to prevent interference with the walls or ceilings. Make sure to install with a distance of the described length or more from the walls or ceilings.

   ![Diagram](image)

Installation

1. **Mounting**
   1. Affix the mounting template at the desired mounting position.
   2. Drill two mounting holes measuring ø3.4 mm (ø1/8") following the mounting template.
   3. To pass the cable through the wall/ceiling, drill a ø10 mm (ø3/8") wiring hole as necessary.
   4. Remove the mounting template and secure the sensor to the mounting surface with the two mounting screws.

2. **Wiring**
   Wire the cable to the door controller as shown below.

   ![Diagram](image)

   - White: Power supply
   - Brown: Activation output
   - Green: Supplemental safety output
   - Pink: AUX output
   - Blue: Activation output
   - Red: Supplemental safety output
   - Black: AUX output

   **WARNING**
   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 tear the shield as this may result in electric shock or damage to the sensor.

   ![Diagram](image)

3. **Turn ON the power**
   1. Plug in the connector.
   2. Supply power to the sensor. Adjust the detection area and set the settings. (See Adjustments)

   **NOTE**
   Make sure to connect the cable correctly to the door controller before turning the power ON. When turning the power ON or after adjusting the settings, avoid entering the detection area for longer than 10 seconds to enable the presence detection.

   ![Diagram](image)

Detection area [ Reference ]

**AIR area**

- **Depth angle**
  - Deep: Value +30°
  - Shallow: Value -15°

- **Sensitivity**
  - Lv5
  - Lvl9

- **Target**
  - Vehicle

**Microwave area**

- **Depth angle**
  - Deep: Value +30°
  - Shallow: Value -15°

**NOTE**

- For detailed descriptions, see the web manual.

![Web manual](image)

**Power supply**

- White: Power supply
- Brown: Activation output
- Green: Supplemental safety output
- Pink: AUX output
- Blue: Activation output
- Red: Supplemental safety output
- Black: AUX output

**Activation output**

- White: Power supply
- Brown: Activation output
- Green: Supplemental safety output
- Pink: AUX output
- Blue: Activation output
- Red: Supplemental safety output
- Black: AUX output

**Supplemental safety output**

- White: Power supply
- Brown: Activation output
- Green: Supplemental safety output
- Pink: AUX output
- Blue: Activation output
- Red: Supplemental safety output
- Black: AUX output

**AUX output**

- White: Power supply
- Brown: Activation output
- Green: Supplemental safety output
- Pink: AUX output
- Blue: Activation output
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**WARNING**

- Risk of getting caught

Do not operate the sensor using the default password. If you do, unspecified users may change the settings and the safety of the sensor may not be secured.

**CAUTION**

- Log in to the sensor

The default password is 0000.

The user setting screen is displayed when the app is launched for the first time. Entering the information is optional. Once the setting has been completed, a device list screen will be displayed. The user information can be edited at any time.

**NOTE**

- To easily obtain and enter the address, enable the location information function of the smartphone/tablet computer.

**Before using the app**

Please ensure that you fully understand the following before using the app.

- For use of this app, read the license and privacy policy stated in the app.
- This app uses the location information of the smartphone/tablet computer and the Bluetooth function. Enable each function to use the app.

**Log in to the sensor**

The default password is 0000.