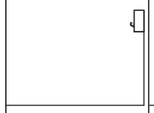
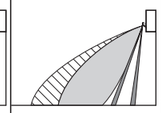
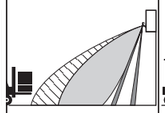
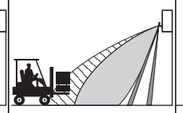
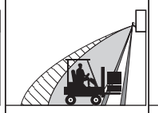
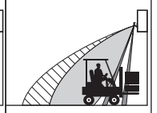
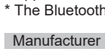
Checking

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

Entry	Power OFF	Warm-up (Approx.10 sec.)	Outside of detection area	Entry into Microwave area (pre-notification)	Entry into Microwave area	Entry into 2nd row	Entry into 1st row
(Image)							
Operation indicator	None	Green glimmering	Green	Orange blinking	Orange	Red	Red blinking

 Microwave area (pre-notification) (Motion detection)

Microwave area (Motion detection)

 AIR area (Motion/Presence detection)

Other indicators

Status	Operation indicator color
Stand-by (Installation mode)	Yellow
Connecting to the app	Slow Green & Blue blinking
Signal saturation	Slow Green blinking
Link error	Once Green blinking
Device error	Fast Green blinking

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

Web manual

Inform the building owner/operator of the following items

⚠ WARNING

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.

⚠ CAUTION

1. Do not paint the detection window.

NOTE

1. Always keep the detection window clean. If dirty, wipe it with a damp cloth. Do not use any cleaner/solvent.
2. When the operation indicator blinks Green, contact your installer or service engineer.
3. Always contact your installer or service engineer when changing the settings.
4. When turning the power ON, always walk-test the detection area to ensure the proper operation.
5. Do not place any objects that move or emit light in the detection area. (e.g. plants, illuminations, etc.)

CE OPTEX hereby declares that the radio equipment type OAM-EXPLORER series complies with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: www.optex.net

UKCA OPTEX hereby declares that the radio equipment type OAM-EXPLORER series complies with RE Regulations 2017.
The full text of the UK declaration of conformity is available at the following internet address: www.optex.net

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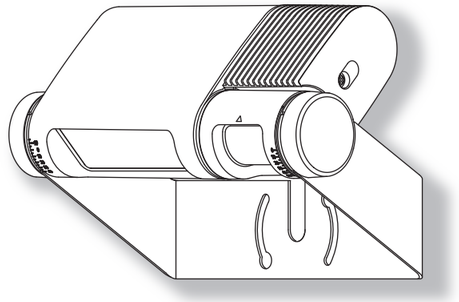
OPTEX

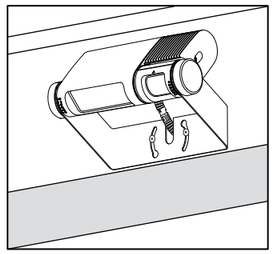
OAM-EXPLORER

ENGLISH

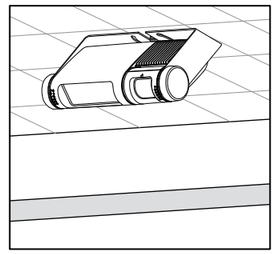
Web manual



Wall mounting



Ceiling mounting



5926953 MAY 2022

Manufacturer's statement

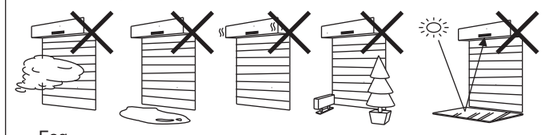
1. This product is a non-contact switch intended for mounting on a wall/ceiling for use on an industrial door. Do not use for any other applications.
2. When setting the sensor detection area, ensure there is no traffic around the installation site.
3. Before turning the power ON, check the wiring to 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. 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.

⚠ WARNING Failure to follow the instructions that accompany this indication and improper handling may result in serious injury or death.

⚠ CAUTION Failure to follow the instructions that accompany this indication and improper handling may result in injury and/or damage to property.

NOTE Pay special attention to sections with this symbol.

The following conditions may cause issues with the sensor operation.



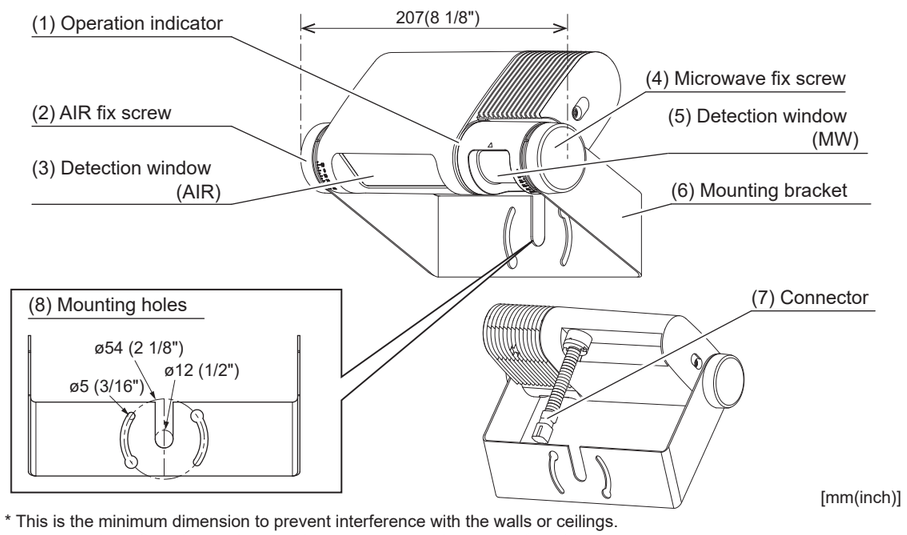
Specifications

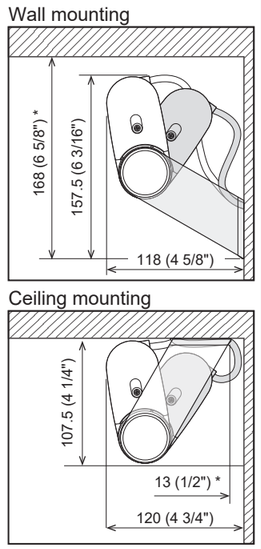
Model	: OAM-EXPLORER	Operating temperature	: -35 to +55 °C (-31 to 131 °F)
Color	: Black	Operating humidity	: < 80 %
Mounting height	: 2.0 m to 6.0 m (6'7" to 19'8") (*1)	Communication method	: Bluetooth LE
Transmitter frequency	: 24.2 GHz	Activation output	: Form A relay 50 V 0.3 A Max.
Transmitter radiated power	: < 12.7 dBm		(Resistance load)
Detection area	: See **Detection area**	Supplemental safety output	: Form B relay 50 V 0.3 A Max.
Detection method	: Microwave Doppler effect		(Resistance load)
	Active infrared reflection (*2)	AUX output (*3)	: Form A relay 50 V 0.3 A Max.
Depth angle adjustment	: Microwave area 0 to +50°		(Resistance load)
	AIR area -15 to +40°	Protection degree	: IP65
Power supply	: 12 to 24 VAC ±10 % (50/60 Hz)	Weight	: 600 g (21.2 oz)
	12 to 30 DVC ±10 %	Accessories	: 1 Operation manual
Power consumption	: < 2.5 W (< 3.5 VA at AC)		2 Mounting screws
Operation indicator	: See **Checking**		1 Mounting template
Output hold time	: Approx. 0.5 sec. (Selectable via app)		1 Cable 10 m (32'10")
Response time	: < 0.3 sec. (Selectable via app)		

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

* 1: A person can be detected at an installation height up to 4 m (13' 1").
* 2: Active infrared reflection has a presence detection function.
* 3: The sensor can send an output to other devices such as a flashing light and alert sound.

Dimensions and part names





[mm(inch)]

* 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.

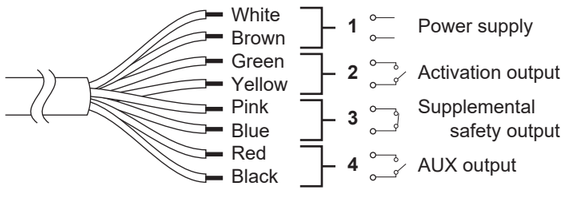
Installation

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.



⚠ 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.

3. Turn ON the power

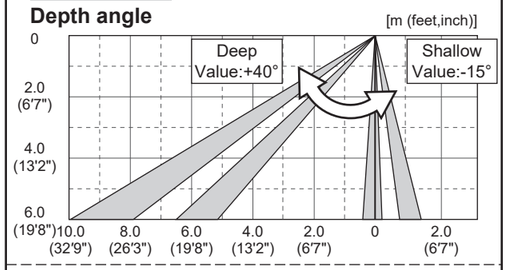
1. Plug in the connector.
2. Supply power to the sensor. Adjust the detection area and set the settings. (See **Adjustments**)

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.

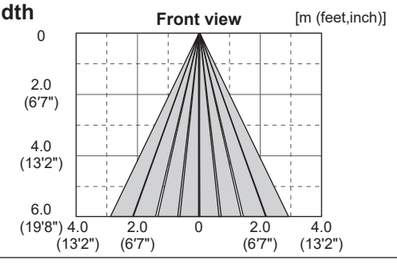
Detection area [Reference]

AIR area

Depth angle



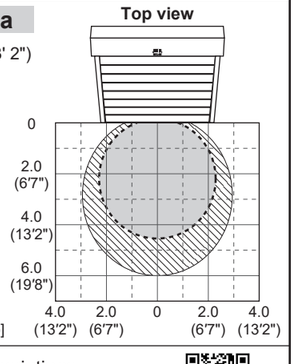
Width



Microwave area

Mounting height: 4m (13' 2")
Depth angle: +30°
Sensitivity: Lv5
Sensitivity (pre-notification): Lv9
Target: Vehicle

: Microwave detection area
: Microwave detection area (pre-notification)



For more detailed descriptions, see the web manual.

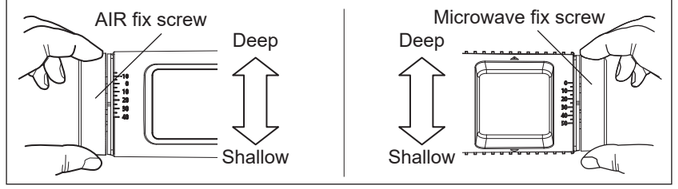
Web manual

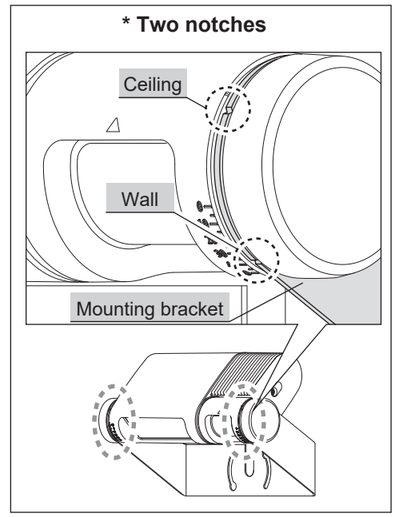
Adjustments

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.





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.

2. Settings

Use a smartphone/tablet computer to change the settings of OAM-EXPLORER.
* The app is free of charge, but communication fees are chargeable for the download.

Download on the App Store

GET IT ON Google Play

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.

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.

⚠ CAUTION 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.