OPTEX
Sensing Innovation

Combined Active Infrared and Microwave Sensor

OAM-EXPLORER

Industrial Door Sensor

- Combination of infrared and microwave technology
- Energy saving by Cross traffic cancellation
- −31°F 131°F NEMA4 Endurance to harsh environment
- Mount up to 19'8" (6.0 m)
- Angle setting with no tools
- Smartphone ready

OPTEX
Sensing Innovation

OPTEX's mission is to build a better future by using sensing technology to create a safe, secure and comfortable global society. Since producing the world's first infrared automatic door sensors, OPTEX has continued to create products that conform to global safety standards and contribute to a welcoming entrance space in any environment.

OPTEX optimizes the working environment by improving the safety and eco-efficiency of industrial doors used in factories and warehouses where forklifts and workers coexist, by applying the sensing technology cultivated in the global automatic door market.

OAM-EXPLORER

Proven technologies, trusted solutions

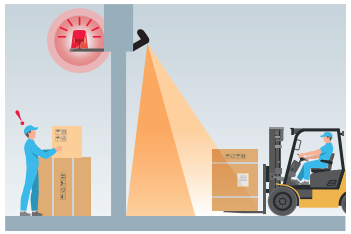
Industrial door sensor

OAM-EXPLORER

High level of supplemental safety and flexibility

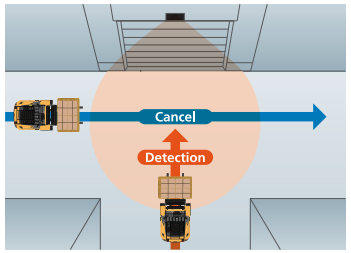
The OAM-EXPLORER is an infrared and microwave combination sensor designed for industrial door applications. By using the unique OPTEX presence detection technique, the OAM-EXPLORER provides both supplemental safety at the threshold of an industrial door and a large microwave activation detection area for forklifts and other vehicles.

The OAM-EXPLORER allows you to control external devices such as a strobe light or alert sounder for pre-caution purposes, helping avoid accidents between vehicles or pedestrians coming from the opposite side.



Avoid unwanted openings and contribute to the environment

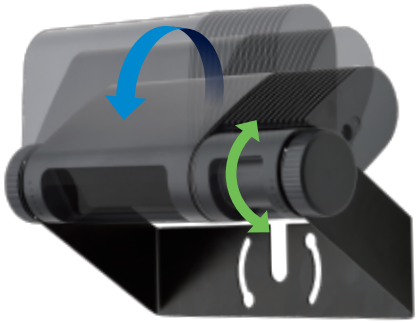
The OAM-EXPLORER facilitates and secures the flow of vehicles including forklifts and trucks, and can also be programmed to sense and react to human traffic moving in and out of a building. Furthermore, the OAM-EXPLORER avoids unwanted door openings to contribute to increased efficiency of temperature management and room separation where hygiene is of concern.



Superior usability and work efficiency

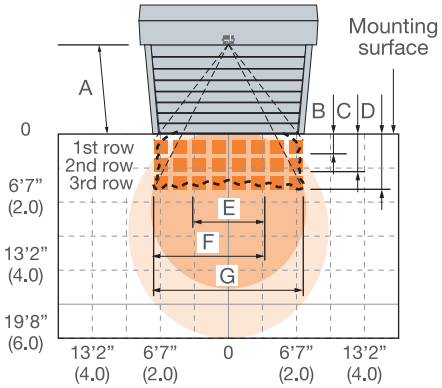
The OAM-EXPLORER was designed with an eye for simplicity, having absolute attention to detail. For example, unique cabling and fastening that will minimize the total amount of time for installation and adjustment. Furthermore, the new manual design allows for smooth independent angle settings with no tools. As a result, the total time of installation and adjustment will be halved when compared to conventional industrial door sensors.

Once the OAM-EXPLORER is installed on the header or ceiling, further configuration and fine tuning are done via the free smartphone app. By registering your favorite settings you will be able easily load them into other sensors on site. This feature can be used in facilities that have multiple industrial doors, or in multiple different facilities where similarities exist. This saves setup time.



Detection Area

[feet, inch (m)]



: AIR emitting spots : Detection area	Motion/Presence detection
: Microwave area	Motion detection
: Microwave area (pre-notification)	Motion detection

The chart shows the values at
Microwave :Depth angle 30°, Sensitivity Lv5, Sensitivity (Pre-notification) Lv9
AIR :Depth angle 0°, Sensitivity Lv5
Target :Vehicle

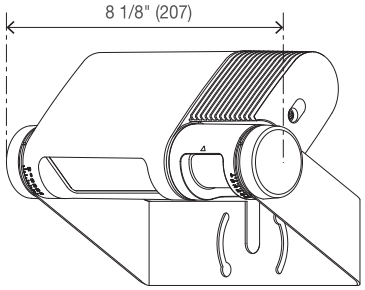
AIR emitting area

A	6'7" (2.00)	9'10" (3.00)	13'1" (4.00)	16'5" (5.00)	19'8" (6.00)
B	10" (0.26)	1'3" (0.39)	1'9" (0.52)	2'2" (0.65)	2'7" (0.78)
C	1'7" (0.48)	2'4" (0.71)	3'1" (0.95)	3'11" (1.19)	4'8" (1.43)
D	2'3" (0.69)	3'5" (1.03)	4'6" (1.37)	5'8" (1.72)	6'9" (2.06)
E	2'11" (0.89)	4'5" (1.34)	5'10" (1.79)	7'4" (2.24)	8'10" (2.68)
F	4'7" (1.41)	6'11" (2.11)	9'3" (2.82)	11'7" (3.52)	13'10" (4.22)
G	6'4" (1.92)	9'5" (2.88)	12'7" (3.84)	15'9" (4.80)	18'11" (5.76)

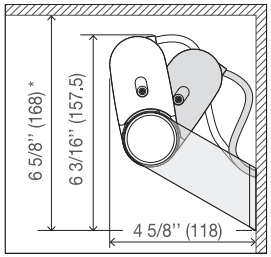
*The actual detection area may vary depending on the ambient light, color/material of the object or floor as well as the entry speed of the object.

Dimensions

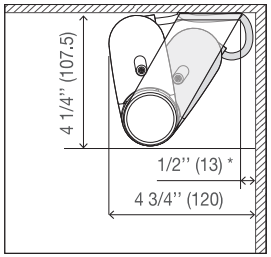
[feet, inch (mm)]



Wall mounting



Ceiling mounting



*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.

Specifications

Model	OAM-EXPLORER US
Color	Black
Mounting height	6'7" to 19'8" (2.0 m to 6.0 m) *1
Transmitter frequency	24.2 GHz
Transmitter radiated power	< 12.7 dBm
Detection area	See Detection Area
Detection method	Microwave Doppler effect Active infrared reflection *2
Depth angle adjustment	Microwave area 0 to +50° AIR area -15 to +40°
Power supply	12 to 24V AC ±10% (50/60 Hz) 12 to 30V DC ±10%
Power consumption	< 3.5 W (< 5.0 VA at AC)
Operation indicator	Green: Stand-by Red Blinking: 1st row detection active Red: 2nd/3rd row detection active Orange: Microwave detection active Orange Blinking: Microwave detection active (Pre-notification)
Output hold time	Approx. 0.5 sec. (Selectable via app)
Response time	< 0.3 sec. (Selectable via app)
Operating temperature	-31 to 131 °F (-35 to +55°C)
Operating humidity	< 80%
Communication method	Bluetooth LE
Activation output	Form A relay 50V 0.3A Max. (Resistance load)
Supplemental safety output	Form B relay 50V 0.3A Max. (Resistance load)
AUX output *3	Form A relay 50V 0.3A Max. (Resistance load)
Protection degree	NEMA4 / IP65
Weight	21.2 oz (600 g)
Accessories	1 Operation manual, 2 Mounting screws 1 Mounting template, 1 Cable 32'10" (10 m)

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 16'5" (5.2 m).
*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.

Download on the App Store

GET IT ON Google Play

Web manual

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