

Combination Slide Door Sensor



Reliable
Blue Zone Easy Installation Presence Detection
Threshold Energy Conservation
Safety Sensing Direction

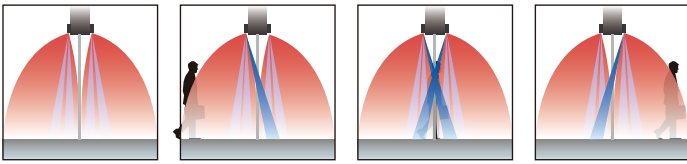
The OPTEx X-Zone Sensor is an Infrared and Microwave Combination Sensor designed for Sliding Doors. Its exclusive "Blue Zone" feature offers presence detection in the threshold when the door is in the open position. Having the ability to detect in the threshold dramatically increases the level of safety that can be achieved. This sensor is perfect for slide door applications where the balance between safety and performance is paramount. Keep them safe with the X-Zone from OPTEx.

**Energy
Efficient**

See back for more information

Blue Zone Technology

How it Works: When the approach area detects a person or object, the sensor will activate the door and



turn on the "Blue Zone" which detects through the threshold. As long as someone is in the detection area, the sensor will keep the door in the open position. Once the area is cleared, the "Blue Zone" will ignore the door panels and allow the door panels and allow the door to safely close.



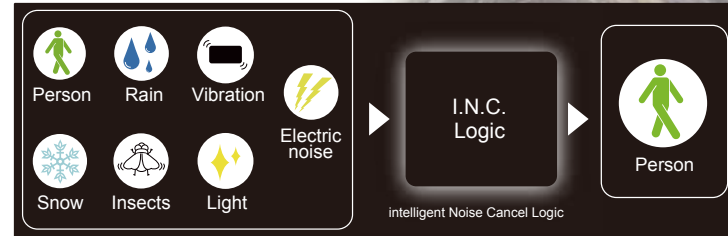
Inner Cover Design

The X-Zone Sensor is designed with an inner cover that completely protects all sensitive PC Boards and Optical Systems. This reduces the chance of damage during installation and dramatically increases the longevity of the sensor.



I.N.C. Logic for Stable Operation

The X-Zone sensor remains stable in all environments thanks to our innovative I.N.C. Logic (Intelligent Noise Cancelling). This feature allows the X-Zone to reliably detect people near the door while ignoring interference from Rain, Snow, Vibration, Insects and Ambient Light Sources.



Selectable Detection Function

The X-Zone can be adjusted to ignore traffic moving away from the sensor and reset more quickly. This will allow the door to close more quickly which reduces airflow between environmentally-controlled areas and the outdoors. This feature will save your customer money over the life of the sensor. Reduce power consumption and protect the environment with the X-Zone from OPTEX.

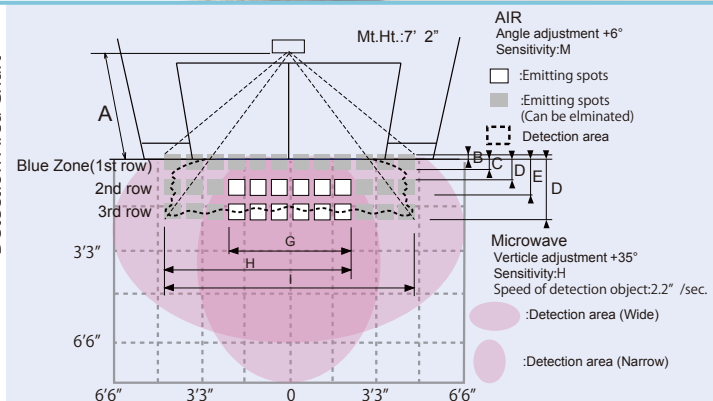
Energy Efficient

Combination Door Sensor

Specifications

Model	X-Zone
Cover color	Black
Mounting height	6'6" to 11'6"
Detection method	Active infrared reflection* Microwave doppler effect
Detection angle adjustments	AIR area -6° / +6° Microwave area +25° / +45°
Power supply	12-24V AC ± 10% (50/60Hz) 12-30V DC ± 10%
Power consumption	<2.5 W / 4VA at AC
Activation output	Form C Relay 50V 0.3A max. (resistance load)
Safety output	Form C Relay 50V 0.3A max. (resistance load)
Output hold time	<0.5s
Response time	<0.3s
Operating humidity	<80%
Operating temperature	-31° F - +131° F
IP rate	IP54
Weight	320g (11.2 oz.)
Accessories	1 operation manual 9' 10" connection cable 2 mounting screws 1 mounting template 1 area adjustment tool Narrow lens

Detection Area Chart



AIR Emitting Area

Mounting Height A	6' 6"	7' 2"	8' 2"	8' 10"	9' 10"	11' 6"
Area Depth B	2"	2"	3"	3"	3"	4"
Area Depth C	3"	3"	4"	4"	4"	5"
Area Depth D	9"	10"	11"	1' 0"	1' 1"	1' 4"
Area Depth E	1' 2"	1' 3"	1' 5"	1' 7"	1' 9"	2' 0"
Area Depth F	1' 11"	2' 2"	2' 5"	2' 8"	2' 11"	3' 5"
Area Width G	4' 0"	4' 4"	4' 11"	5' 4"	5' 11"	6' 11"
Area Width H	6' 1"	6' 9"	7' 7"	8' 3"	9' 2"	10' 8"
Area Width I	8' 3"	9' 1"	10' 4"	11' 2"	12' 5"	14' 6"

The actual detection may differ according to the size/material/entry speed of the object and the installation environment. This chart shows the values at a depth angle of +6°.

OPTEX CO.,LTD.

5-8-12 ogoto Otsu, 520-0101 Japan
 TEL : +81-77-579-8700 FAX : +81-77-579-7030
 WEBSITE : www.optex.co.jp/as/eng/

OAM-DUAL T/TV/TF

Active infrared and microwave safety

The Optex OAM-Dual series is the new sensor standard for use on sliding doors based on a combination of active infrared technology and microwave. The OAM-Dual series provide safety around the door and through the threshold and at the same time the redundant microwave makes sure that a comfortable opening is guaranteed at all times.

The OAM-Dual serie of products are in compliance with the latest European and local regulations as EN 16005 and DIN 18650:2010, safety tested and approved by the German test organization TÜV.

The microwave activation part of the OAM-Dual TV and TF is redundant and therefore can be used on escape routes.



SAFETY/LOOKBACK FUNCTION

The active infrared presence detection offers 2 rows of safety in front of the threshold which can be set very accurately and can be moved 6° towards or away from the door. As an additional safety functionality the OAM-Dual provides an extra row of presence detection that looks into the threshold. This row will be automatically shut off when the complete presence detection area is cleared and as soon as the doors start to close. The installation of safety beams is no longer mandatory. The Optex OAM-Dual series is safety tested and approved by the German test organization TÜV in compliance with the German DIN 18650:2010 and the European Norm EN 16005.

MOTION DETECTION

The large microwave motion detection area provides fast detection for any traffic, approaching from any angle, which allows the door to open conveniently. The presence and motion detection areas can be adjusted independently. By selecting a dipswitch the active infrared detection area can be set to safety only or to safety and activation. The uni-directional function allows the door to close faster when traffic is moving away from the door, this will contribute to significant energy saving.

ESCAPE ROUTES

The OAM-Dual TV (Voltage) and TF (Frequency) versions are equipped with a monitored activation output for the use in escape routes in compliance with DIN 18650:2010, EN 16005 and AutSchR.

EASY INSTALLATION

Installation time can be reduced to a minimum by using easily set switches and shutters, therefor the sensor can be quickly adjusted for many different applications. To adjust the presence detection area the use of an Optex Infraredfinder is recommended.

QUALITY

Optex automatic door sensors guarantee premium performance and include a 3-year full replacement warranty.

OPTEX CO.,LTD.

5-8-12 Ogoto Otsu, 520-0101 Japan

TEL : +81-77-579-8700

FAX : +81-77-579-7030

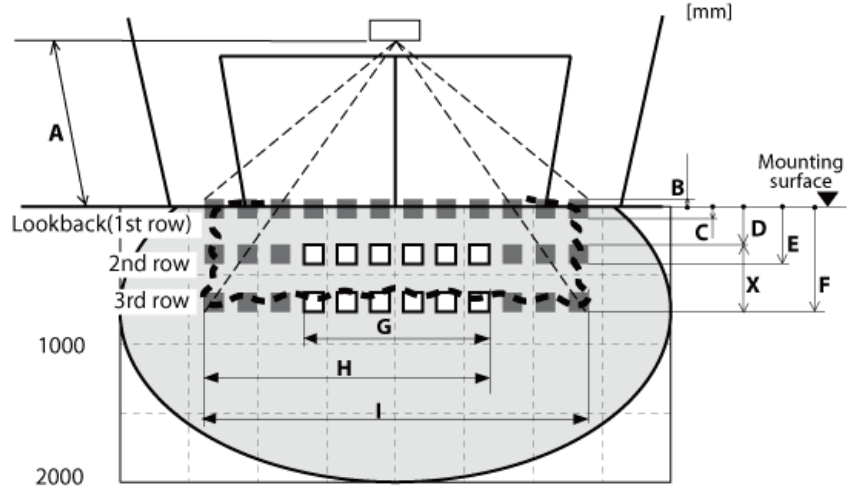
WEBSITE : www.optex.co.jp/as/eng/

OAM-DUAL T/TV/TF

SPECIFICATIONS

Model	OAM-Dual T/TV/TF
Cover colour	Black
Mounting height	2.0m to 3.5m
Detection method	Active infrared reflection/Microwave doppler effect
Detection angle adjustment	AIr area -6° to +6° Microwave area +25° to +45°
Power supply	12 – 24V AC ±10% (50/60Hz) 12 – 30V DC ±10%
Power consumption	< 2.5W (< 4VA at AC)
Test input	Opto coupler, Voltage 5 to 30 VDC Current 6mA Max. (30VDC)
Activation output	See chart in below
Safety/Test output	Opto coupler (NPN) , Voltage 5 to 50VDC Current 100mA Max., Dark current 600nA Max. (resistance load)
Noise level	< 70dBA
Output hold time	< 0.5 sec.
Response time	< 0.3 sec.
Operating temperature	-20°C – +55°C (-4°F to 131°F)
Operating humidity	< 80%
IP rate	IP54
Weight	320g
Accessories	<ul style="list-style-type: none"> • 1 manual • 2 mounting screws • 1 mounting template • 1 area adjustment tool • 1 cable

DETECTION AREA



	2000	1000	0	1000	2000
Mounting Height A	2.20	2.50	2.70	3.00	3.50
Area Width B	0.06	0.07	0.074	0.08	0.09
Area Width C	0.08	0.09	0.10	0.11	0.12
Area Width D	0.25	0.28	0.31	0.34	0.39
Area Depth E	0.39	0.44	0.48	0.53	0.61
Area Depth F	0.65	0.74	0.80	0.89	1.38
Area Width G	1.33	1.51	1.63	1.81	2.11
Area Width H	2.05	2.32	2.51	2.79	3.25
Area Width I	2.78	3.15	3.40	3.79	4.42