

OPTEX

Leaflet

Master Index

Passive Infrared Door Sensor



OP-08C



Black

Silver

White



Sensor with high efficiency and cost reliability

The Optex OP-08C passive infrared door sensor is a reliable and cost effective sensor for every type of automatic door application. The compact housing brings good looks, versatility, and high performance to request-to-exit PIR applications.

Flexible Installation

The Optex OP-08C is very easy to install. Its compact size is ideal for mounting on the header, or transom, up to 4 m (13.1 ft.) high.

Large Detection Area

The detection pattern of the OP-08C consists of 10 individual zones, providing high sensitivity even in large areas. Rotating the spherical lens easily changes the detection area from standard to large size. By using area masking seals, the detection pattern's size and shape can be further customized to best fit the application.

Design

With a compact, sleek design, the OP-08 is ideal for virtually all light commercial applications. It can be recessed, surface mounted or ceiling mounted and comes in a choice of black, silver or white housing.

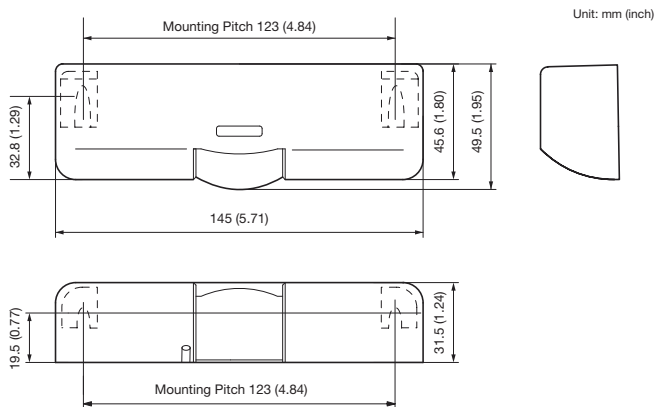
All Conditions

The OP-08's advanced circuitry minimizes false activations, making it ideal for environments with sunlight, wind, rain, snow or radio frequency noise.

Specifications

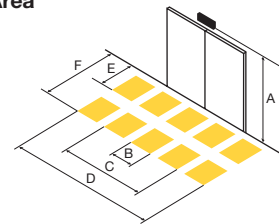
Model	OP-08C
Mounting height	4.0 m (13'1") max.
Detection method	Passive infrared detection
Current draw	50 mA Max. (at 24 V DC)
Power supply	12 to 24 V AC/DC
Detection area	See detection area chart
Output contact	Form C relay, 24 V DC, within 1 A (Resistance Load)
Power/operating indicator	LED ON: Standby LED OFF: Detection
Relay hold time	Approx. 1.5s
Operating temperature	-20 to +55°C (-4 to +131°F)
Weight	90 g (3.2 oz)
Accessories	2 m Connection cable, 2 Mounting screws, Mounting template, Area masking seal

Dimensions



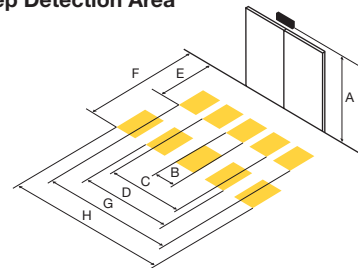
Detection Area

Standard Detection Area



	Unit: m (feet)		
A Mounting height	2.50 (8.2)	3.00 (9.8)	4.00 (13.1)
B Area width	0.3 (1.0)	0.4 (1.3)	0.5 (1.6)
C Area width	1.8 (5.9)	2.1 (6.9)	2.9 (9.5)
D Area width	3.6 (11.8)	4.3 (14.1)	5.7 (18.7)
E Area width	0.8 (2.6)	1.0 (3.3)	1.3 (4.3)
F Area width	2.3 (7.5)	2.8 (9.2)	3.7 (12.1)

Wide and Deep Detection Area



	Unit: m (feet)		
A Mounting height	2.50 (8.2)	3.00 (9.8)	4.00 (13.1)
B Area width	0.5 (1.6)	0.6 (2.0)	0.8 (2.6)
C Area width	1.5 (4.9)	1.8 (5.9)	2.5 (8.2)
D Area width	2.5 (8.2)	2.9 (8.5)	3.9 (12.8)
E Area width	1.4 (4.6)	1.6 (5.2)	2.2 (7.2)
F Area width	3.3 (10.8)	3.9 (12.8)	5.2 (17.1)
G Area width	3.0 (9.8)	3.7 (12.1)	4.9 (16.1)
H Area width	5.0 (16.4)	6.0 (19.7)	8.1 (26.6)

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Microwave Door Sensor



OM-105C

Directional recognition model



OM-106C



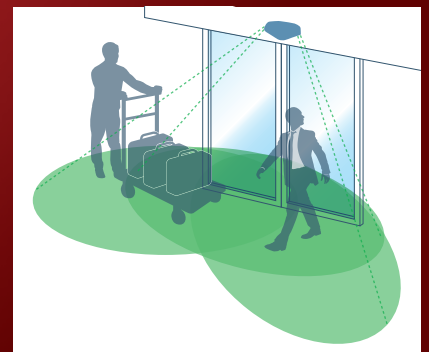
Black

Silver



The Optex microwave sensors provide fast detection for all automatic door installations and particularly for applications with high speed entries.

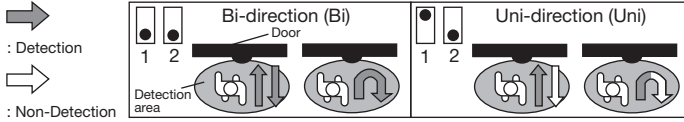
Due to the industrial design and easy installation these sensors will fit on every header or ceiling in any application you can imagine.



Bi / Uni directional setting (OM-106C only)

By selecting the uni directional mode the sensor will only detect traffic approaching the door, allowing the door to close more quickly for departing traffic.

Fast closing of doors offers a large benefit for the end user, because the doors will stay open for a limited time and therefore they will contribute to saving energy.



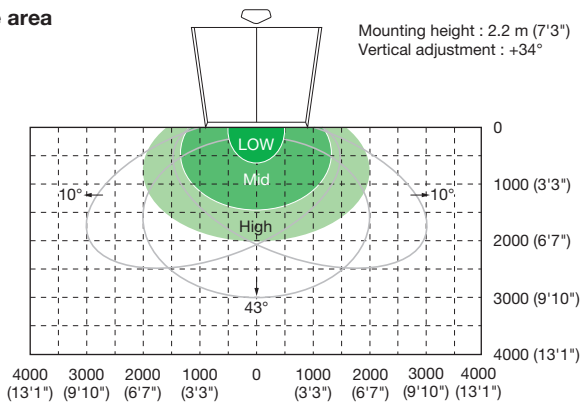
Auto-Caution Mode (OM-106C only)

Auto-caution mode guarantees more reliability to prevent the door from closing, even if a person is wavering in the detection area. OM-106C will change immediately from unidirectional to multi directional for safety purposes.

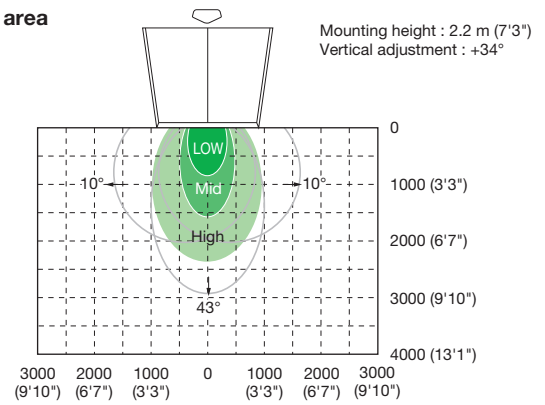


Detection Area

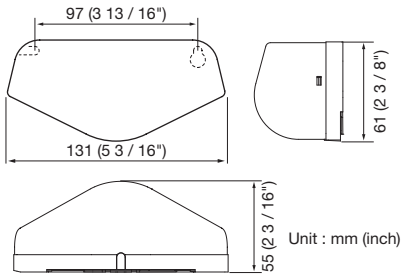
Wide area



Narrow area



Dimensions



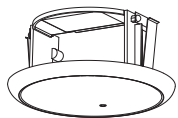
Specifications

Model	OM-105C / 106C
Cover color	Black / Silver
Mounting height	2.0 (6'7") to 3.5 m (11'5")
Detection method	Microwave doppler effect
Power frequency	24.125 GHz
Power density	< 20 dBm
Detection area	See detection area
Vertical adjustment	+10 to +70° (Header mount) +20 to +80° (Ceiling mount)
Horizontal adjustment	30° to left or right
Power supply	12 to 24 VAC (±10%) 12 to 30 VDC (±10%)
Power consumption	< 1.5 W (< 2 VA at AC)
Minimum speed	5 cm (1 15/16") / sec.
Operation indicator	Green / Stand-by Red / Detection Green blinking / Set-up

Output	Form C relay 50 V 0.3 A Max. (Resistance load)
Output hold time	0.5 sec. / 2.0 sec.
Response time	< 0.3 sec.
Operating humidity	< 80%
Operating temperature	-20 to +55 C° (-4 to 131° F)
IP rate	IP54
Weight	140 g (4.9 oz)
Accessories	1 Cable 3 m (9'10") 1 Operation manual 2 Mounting screws 1 Mounting template 1 Narrow lens*

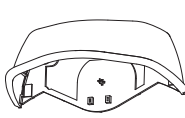
Options

Ceiling mount bracket



MW-CMK

Rain cover



RH-S

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Microwave Door Sensor



OM-104C



Black

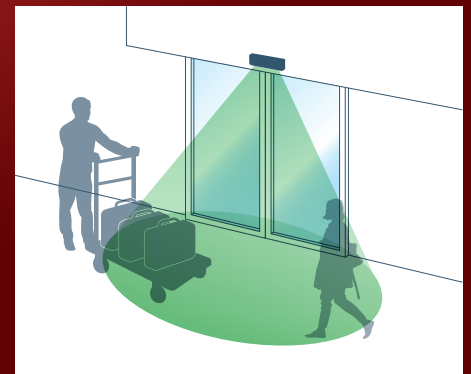
Silver



Compact and Stylish

The OM-104C is especially designed to increase comfort on opening all types of automatic doors.

Due to the compact design and easy installation, these sensors fit on every header in any application.



Highly Protective Cover

Dust or insects blocking construction and static-free antenna reduce malfunction and breakdown of sensors.



Rain



Insect



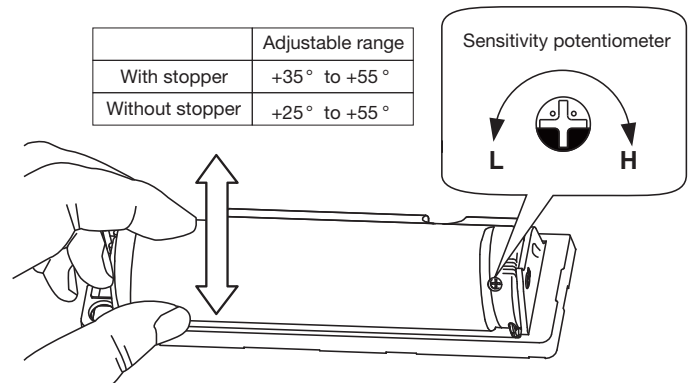
Dust

Stylish Design

The smallest design in the industry and the smart design enable the sensor to suit with any installation sites.

Easy Installation

Installation time can be reduced dramatically and the detection area can be set close to the door.



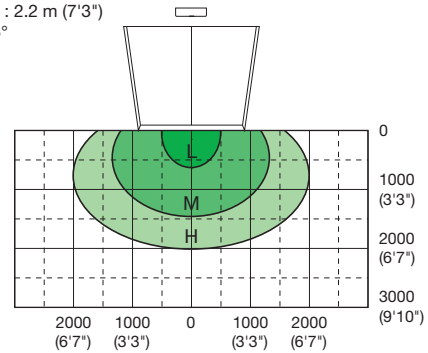
Specifications

Model	OM-104C
Cover color	Silver / Black
Mounting height	2.0 (6'7") to 3.5 m (11'5")
Detection method	Microwave doppler effect
Power frequency	24.125 GHz
Power density	< 20 dBm
Detection area	See detection area
Minimum detection speed	5 cm (1 15/16") / sec.
Vertical adjustment (without stopper)	+35 to +55° (5° per click) +25 to +55° (5° per click)
Power supply	12 to 24VAC (±10%) 12 to 30VDC (±10%)
Power consumption	< 0.7 W (<1.3 VA at AC)
Current draw	< 45 mA (at 12 VDC)
Operation indicator	Red / Stand-by None / Detection Red blinking / Set-up
Output	Form A relay 50 V 0.1 A Max. (resistance load)
Output hold time	0.5 sec.
Response time	< 0.3 sec.
Operating humidity	< 80%
Operating temperature	-20 to +55°C (-4 to 131°F)
IP rate	IP54
Weight	120 g (4.2 oz)
Accessories	1 Cable 2.5 m (8'2") 1 Operation manual 2 Mounting screws

Detection Area

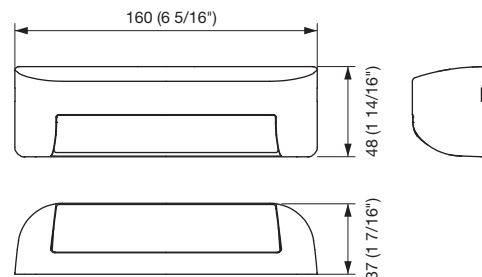
Mounting height : 2.2 m (7'3")
Depth angle : 35°

mm (feet)



Dimensions

Unit: mm (inch)



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Combined Active Infrared and Microwave Door Sensors



OAM-DUAL series



Black

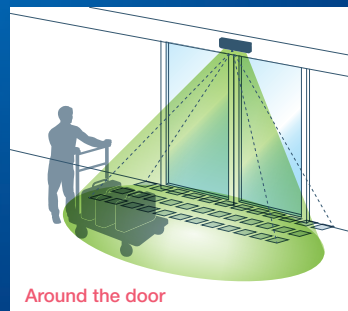
Silver



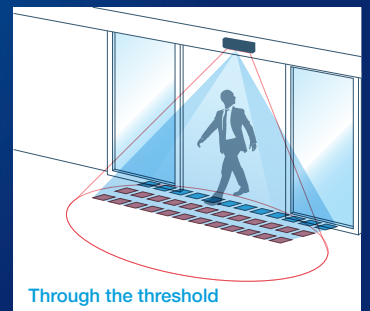
Hybrid Sensor

The OAM-DUAL series provide safety around the door and through the threshold at the same time.

The microwave detection area guarantees comfortable opening at all times.



Around the door

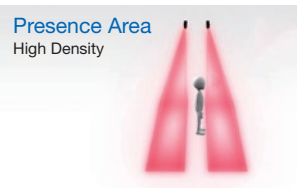
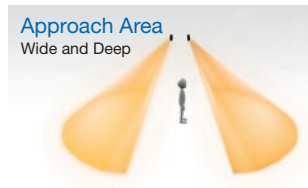


Through the threshold

BLUE ZONE Technology™

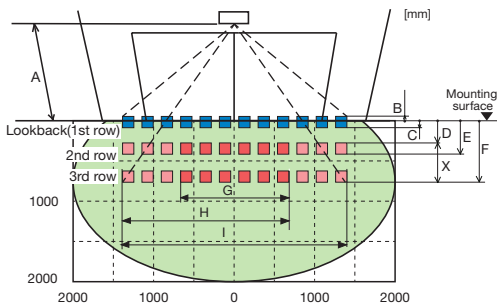


The "BLUE ZONE" is unique and is setting the trend for automatic door threshold safety. The "BLUE ZONE" provides the ultimate threshold coverage that adds value to the end user. Optex is focused on being better and presenting the "BLUE ZONE" technology matches our commitment to leading the industry with providing safety in the threshold.



*This feature is intended to improve the safety, it does not guarantee the prevention of accidents.

Detection Area

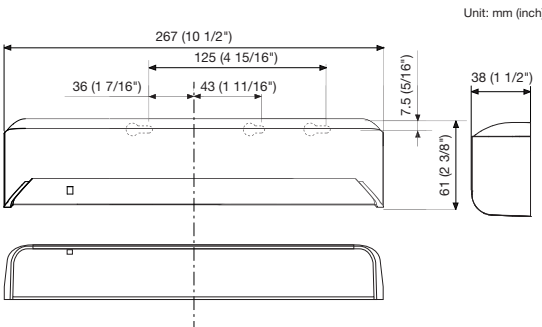


AIR emitting area

The chart shows the values at depth angle $\pm 6^\circ$

	m (feet, inch)					
A	2.00 (6'7")	2.20 (7'2")	2.50 (8'2")	2.70 (8'10")	3.00 (9'10")	3.50 (11'6")
B	0.05 (2")	0.06 (2")	0.07 (3")	0.074 (3")	0.08 (3")	0.09 (4")
C	0.07 (3")	0.08 (3")	0.09 (4")	0.10 (4")	0.11 (4")	0.12 (5")
D	0.23 (9")	0.25 (10")	0.28 (11")	0.31 (1')	0.34 (1'1")	0.39 (1'4")
E	0.35 (1'2")	0.39 (1'3")	0.44 (1'5")	0.48 (1'7")	0.53 (1'9")	0.61 (2")
F	0.59 (1'11")	0.65 (2'2")	0.74 (2'5")	0.80 (2'8")	0.89 (2'11")	1.03 (3'5")
G	1.21 (3'12")	1.33 (4'4")	1.51 (4'11")	1.63 (5'4")	1.81 (5'11")	2.11 (5'11")
H	1.86 (6'1")	2.05 (6'9")	2.32 (7'7")	2.51 (8'3")	2.79 (9'2")	3.25 (10'8")
I	2.52 (8'3")	2.78 (9'1")	3.15 (10'4")	3.40 (11'2")	3.79 (5'11")	4.42 (14'6")

Dimensions



Specifications

Model	OAM-DUAL T/TV/TF
Cover color	Black / Silver
Mounting height	2.0 (6'6") to 3.5 m (11'6")
Detection method	Active infrared reflection Microwave doppler effect
Detection angle adjustment	AIR area -6 to $+6^\circ$ Microwave area $+25$ to $+45^\circ$
Power supply	12 to 24 V AC $\pm 10\%$ (50/60 Hz) 12 to 30 V DC $\pm 10\%$
Power consumption	< 2.5 W (< 4 VA at AC)
Test input	Opto coupler, voltage 5 to 30 VDC current 6 mA max. (30 VDC)
Activation output	See chart in below
Safety/Test output	Opto coupler (NPN), voltage 5 to 50 VDC current 100 mA max., dark current 600 nA max. (resistance load)
Noise level	< 70 dBA
Output hold time	< 0.5 sec.
Response time	< 0.3 sec.
Operating temperature	-20 to $+55^\circ\text{C}$ (-4 to $+131^\circ\text{F}$)
Operating humidity	$< 80\%$
IP rate	IP54
Weight	320 g
Accessories	Manual, mounting screws, mounting template, area adjustment tool, cable

Activation / Safety Testoutput

	OAM-DUAL T	OAM-DUAL TV	OAM-DUAL TF
1	12 to 24 VAC $\pm 10\%$ / 12 to 30 VDC $\pm 10\%$		
2	Form A relay 50 V 0.3 A Max.	(+) Voltage output 3.2 V@ 10 mA min. 4.5 V(no load) (-)	Frequency output 100 Hz $\pm 10\%$
3	Opto coupler(NPN) / Voltage: 5 to 50 VDC		
4	Opto coupler / Voltage: 5 to 30 VDC		

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Active Infrared Door Sensors



OA-203C series



Thin Design
(Thickness 29.9 mm)

Black

Silver

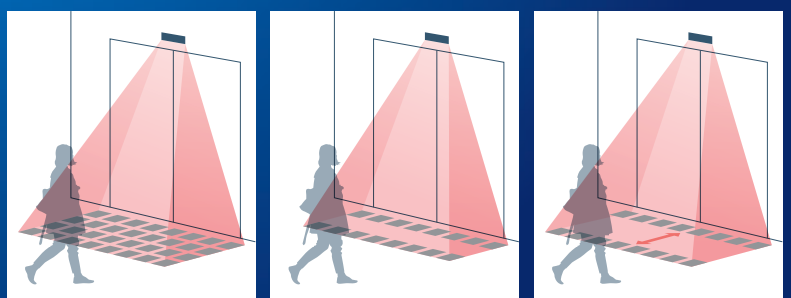


Depth Width Horizontal angle Vertical angle

$$4 \times 4 \times 5 \times 9 = 720$$

Detection Area Patterns

The Optex OA-203C is the optimal choice for both safety and activation on all types of automatic doors.



Product line up

Model	Description	Voltage	Color
OA-203C (BL)	Four rows AIR	12-30 V	Black
OA-203C (S)	Four rows AIR	12-30 V	Silver
OA-203C BL-2	Two rows AIR	12-30 V	Black
OA-203C S-2	Two rows AIR	12-30 V	Silver
OA-203V-1 S	One row AIR	12-110 V	Silver

Presence Detection Function

Safety is assured by the two rows of presence detection closest to the door. The sensor detects a person or object and holds the door open as long as they are near the threshold area, even if they stop or pause.

All conditions

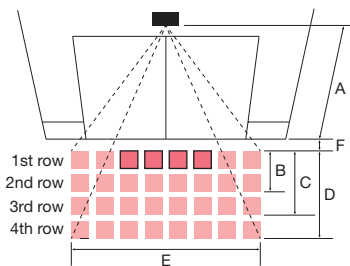
Snow mode and variable sensitivity adjustments make this sensor suitable for every application and even weather conditions.

Easy installation

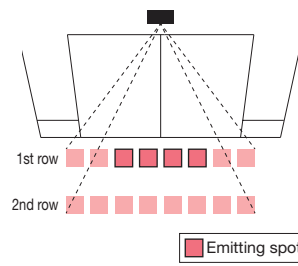
The Optex OA-203C is simple to install. All the settings are mechanically adjustable with dip switch and levers.

Detection Area

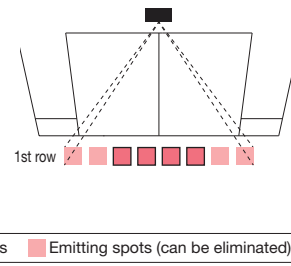
OA-203C (BL), OA-203C (S)



OA-203C BL-2, OA-203C S-2



OA-203V-1



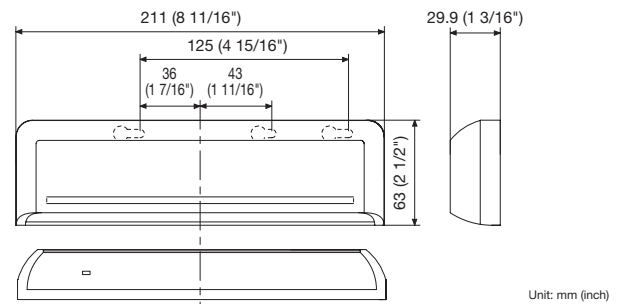
■ Emitting spots ■ Emitting spots (can be eliminated)

	m (feet, inch)				
A	2.00 (6' 6 3/4")	2.20 (7' 2 5/8")	2.50 (8' 2 7/16")	2.70 (8' 10 5/16")	3.00 (9' 10 1/8")
B	0.28 (11")	0.31 (1' 3/16")	0.35 (1' 1 3/4")	0.38 (1' 2 15/16")	0.41 (1' 4 9/16")
C	0.68 (2' 2 3/4")	0.75 (2' 5 1/2")	0.85 (2' 9 9/16")	0.92 (3' 1/4")	1.02 (3' 4 3/16")
D	1.18 (3' 10 7/16")	1.30 (4' 3 3/16")	1.48 (4' 10 1/4")	1.59 (5' 2 5/8")	1.77 (5' 9 11/16")
E	2.10 (6' 10 11/16")	2.30 (7' 6 9/16")	2.60 (8' 6 3/8")	2.80 (9' 2 1/4")	3.10 (10' 2 1/16")
F	0.16 (6 5/16")	0.18 (7 1/16")	0.20 (7 7/8")	0.22 (8 11/16")	0.25 (9 13/16")

Specifications

Model	OA-203C
Mounting height	3.0 m (9'10") max.
Detection area adjustments	Eliminate rows B, C, or D (dip switch setting) Depth 4° in or out, 1° per setting Width 7° left or right, 3,5° per setting Shutters eliminate left and right sides
Detection technique	Active infrared reflection
Power supply	12 to 30 V AC/DC
Power consumption	160 mA max. (at 12V AC)
Power/Operating indicator	Green: Standby Red: Presence detection Orange: Motion detection
Output contact	Form C relay 50 V, 0.3 A max. (resistance load)
Relay hold time	Approx. 0.5 s
Response time	<0.3 s
Operating temperature	-20 to +55°C (-4 to +131°F)
Outer dimensions	221 x 63 x 29.9 mm (w x h x d)
Weight	200 g
Accessories	3 m Connection cable with plug 2 Mounting screws 1 Mounting template 1 Area adjustment tool
Available colours	Black (OA-203CBL), silver (OA-203CS)

Dimensions



Unit: mm (inch)

Option

Rain cover M



Manufacturer / Asia sales Div.

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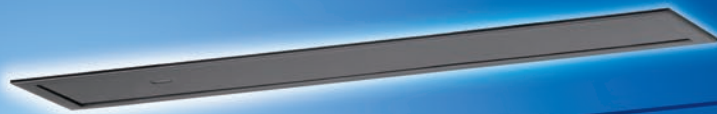
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Active Infrared Door Sensor



MIRAGE



Recess Mount

Optex Mirage is designed to be installed in the header of the door operator or as a built in ceiling mount sensor.

It offers you both safety and activation on all types of automatic doors.

It combines easy adjustable settings, providing maximum safety in a wide array of applications.

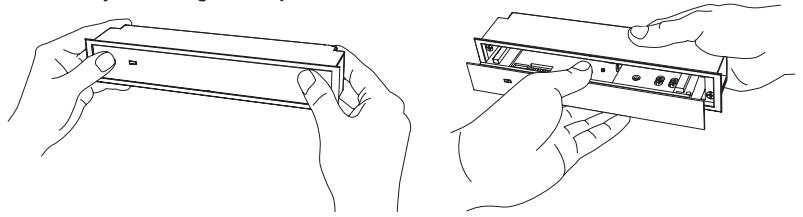


Elegant solution for design conscious applications The Optex Mirage is designed for installation in the header of the door operator.

Due to its recessed mounted design and the 2 rows of presence detection, this sensor is an elegant and safe solution for applications where design of appearance is very much emphasized.

One Push Opening Body Structure

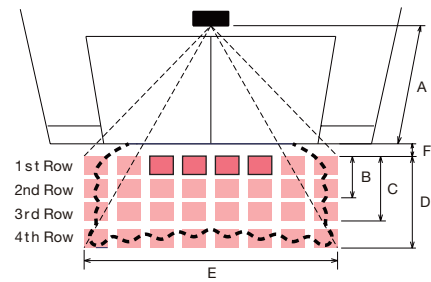
By pressing the detection window, The main body appears. It is so easy to setting and adjustment.



Specifications

Model	MIRAGE
Mounting height	3.0 m (9' 10") max.
Detection area	See detection area
Detection method	Active infrared reflection method
Detection angle adjustment	±4°adjustable by steps of 1 degree (deep/shallow)
Power supply	12 to 30 V AC/DC
Current draw	200 mA max. (at 12 V DC)
Operating indicator	Green : Standby Red : 1st Row detection active Orange : Other rows detection active
Output contact	Form C relay 50 V, 0.3 A max.
Relay hold time	0.5s
Operating temperature	-20 to +55° C (-4 to +131°F)
Outer dimensions	244 x 52.5 x 43 mm (w x h x d)
Weight	260 g (9.2 oz)
Accessories	Accessories 3m Connection cable, area adjust ment tool

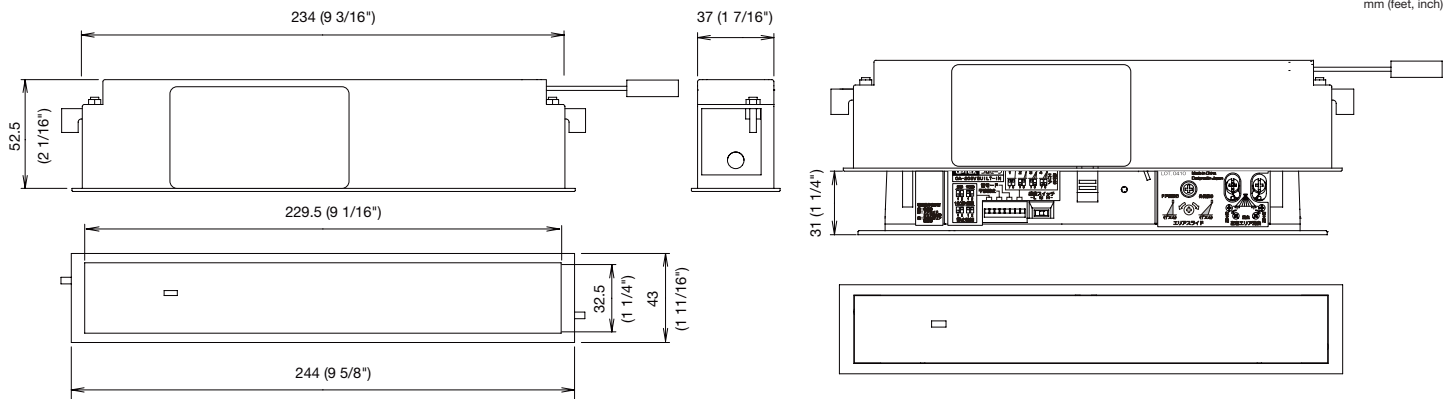
Detection Area



Unit: m (feet)

	2.00 (6' 6 3/4")	2.20 (7' 2 5/8")	2.50 (8' 2 7/16")	2.70 (8' 10 5/16")	3.00 (9' 10 1/8")
A	2.00 (6' 6 3/4")	2.20 (7' 2 5/8")	2.50 (8' 2 7/16")	2.70 (8' 10 5/16")	3.00 (9' 10 1/8")
B	0.42 (1' 4 11/16")	0.47 (1' 6 3/8")	0.53 (1' 8 7/8")	0.57 (1' 10 1/2")	0.64 (2' 1")
C	0.85 (2' 9 5/8")	0.94 (3' 1 5/16")	1.07 (3' 6")	1.15 (3' 9 3/8")	1.28 (4' 2 3/8")
D	1.50 (4' 11 1/8")	1.65 (5' 5 1/16")	1.88 (6' 1 7/8")	2.03 (6' 7 13/16")	2.25 (7' 4 11/16")
E	2.07 (6' 9 5/8")	2.28 (7' 5 3/4")	2.59 (8' 6")	2.80 (9' 2 3/16")	3.11 (10' 2 3/8")
F	0.21 (8 1/8")	0.23 (8 15/16")	0.26 (10 3/16")	0.28 (11")	0.31 (1' 3/16")

Dimensions



Manufacturer / Asia sales Div.

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Active Infrared Door Sensor i-oneX T

*The highest density
in the world*

*The number of detection spots
is increased to 80 spots*



Black

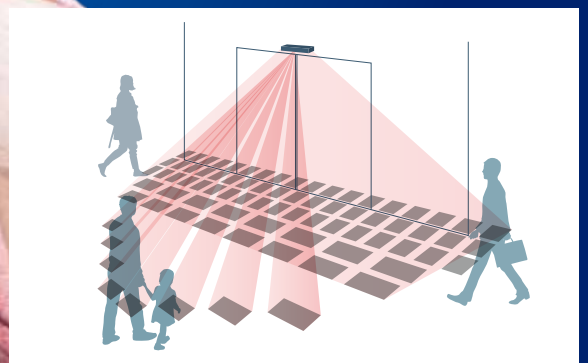


Detection area patterns

Width (Right)	Width (Left)	Approach area	Presence area
------------------	-----------------	------------------	------------------

$$3 \times 3 \times 8 \times 4 = 288$$

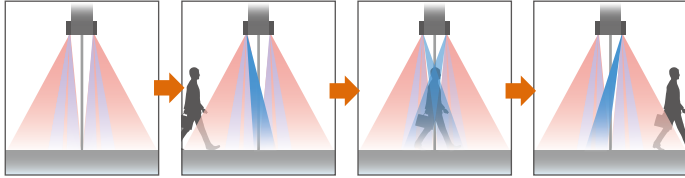
The extra-wide detection area covers the door opening plus sidelights, providing fast detection for traffic approaching from any angle.



Complied with New ANSI standard



How it Works: When the approach area detects a person or object, the sensor will activate the door and turn on the "BLUEZONE" 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 "BLUEZONE" will ignore the door panels and allow the door to safely close.



Monitoring Capability

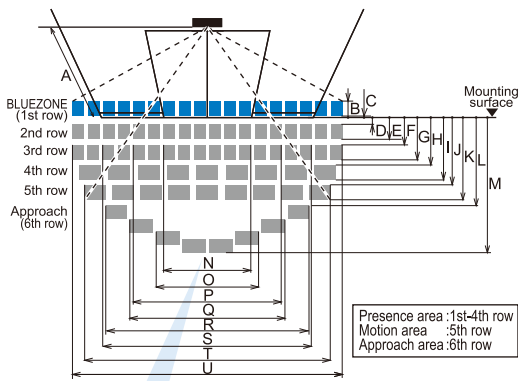
i-oneX T has built-in "monitoring capability". The i-oneX T monitors all its critical functions and notifies compatible controls when an error occurs. Self monitoring capability ensures a higher level of performance over the life of the sensor.

Adapted in Cold District

-31°F to 131°F

Detection Area

Motion / Presence area



[feet, inch (m)]

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
	7'3" (2.20)	9" (0.22)	6" (0.16)	2" (0.06)	7" (0.18)	8" (0.20)	1'7" (0.49)	1'8" (0.50)	2'10" (0.86)	3'5" (1.04)	3'7" (1.09)	4'9" (1.45)	8'1" (2.46)	4'6" (1.38)	7'1" (2.15)	8'4" (2.53)	10'6" (3.20)	12'1" (3.68)	14' (4.27)	13'5" (4.10)	16'9" (5.10)
	8'2" (2.50)	10" (0.25)	7" (0.18)	3" (0.07)	8" (0.20)	1'10" (0.55)	1'11" (0.58)	3'1" (0.93)	3'3" (0.99)	3'10" (1.18)	4'1" (1.24)	5'5" (1.65)	9'2" (2.79)	5'2" (1.57)	8" (2.45)	9'5" (2.88)	12' (3.65)	13'9" (4.18)	15'11" (4.86)	15'4" (4.67)	19' (5.79)
	9'10" (3.00)	1' (0.31)	8" (0.21)	3" (0.08)	9" (0.24)	2'2" (0.65)	2'4" (0.70)	3'8" (1.11)	3'11" (1.19)	4'8" (1.41)	4'11" (1.49)	6'6" (1.98)	11' (3.35)	6'2" (1.89)	9'8" (2.95)	11'4" (3.45)	14'4" (4.38)	16'6" (5.02)	19'2" (5.84)	18'4" (5.60)	22'10" (6.95)

Approach area

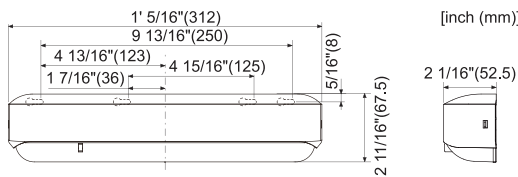
*Mounting Height = 7'3" (2.2m) [feet, inch (m)]

	-15°	0°	+10°
L	2'2" (0.67)	4'9" (1.45)	6'9" (2.06)
M	5'1" (1.54)	8'1" (2.46)	12' (3.65)
O	5'7" (1.69)	7'1" (2.15)	8'2" (2.50)
Q	8'3" (2.52)	10'6" (3.20)	11'8" (3.56)
S	12' (3.66)	14' (4.27)	15'7" (4.76)

Specifications

Model	i-oneX T
Cover color	Black
Mounting height	6'7" to 9'10" (2.0 to 3.0 m)
Detection area	See DETECTION AREA
Detection method	Active infrared reflection
Depth angle adjustment	Approach area -15° to +10° Presence/Motion area -10° to +8°
Power supply	12 to 24 VAC ±10% (50 / 60 Hz) 12 to 30 VDC ±10%
Power consumption	< 2.5 W (< 4 VA at AC)
Activation output	Form A relay 50 V 0.3 A Max.(Resistance load)
Safety output	Form A relay 50 V 0.3 A Max.(Resistance load)
Test input	Opto coupler Voltage 5 to 30 VDC Current 6 mA Max.(30 VDC)
Output hold time	0.5 to 1.5 sec.
Response time	< 0.3 sec.
Operating temperature	-31°F to 131°F(-35°C to +55°C)
Operating humidity	< 80%
IP rate	IP54
Weight	14.6 oz (420 g)
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 9'10" (3 m)

Dimensions



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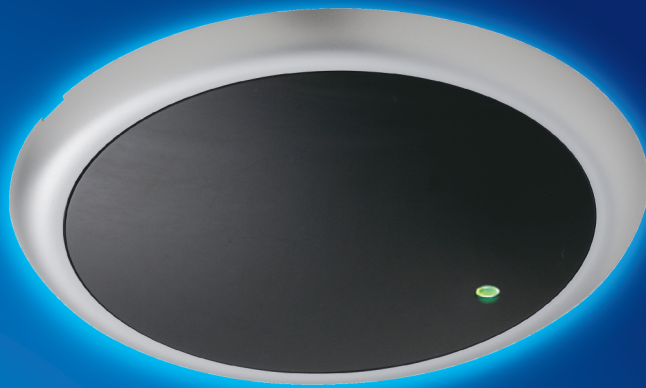
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Active Infrared Door Sensor



OA-72C



Ceiling mount door sensor

The Optex OA-72C active infrared door sensor is specially designed for discreet ceiling installation.

It performs well as activation and safety for any type of automatic door, and its large pattern can easily be adjusted to different door configurations.

Safety Detection Area



The first two active infrared rows near the door provide presence detection, which holds the door open as long as a person or object is in the pattern, even if they stop or pause. The presence detection timer can be set to maximum 600 seconds. Its large detection area can be set very precisely and easy by dip switches and levers to line up with doors and other sensor patterns, providing maximum safety.

High Mount Up to 4 m

The Optex OA-72C is perfect for installation in areas where attractive appearance is important. The sensor can be mounted up to 4 m high, making it vandalism resistant.

All Conditions

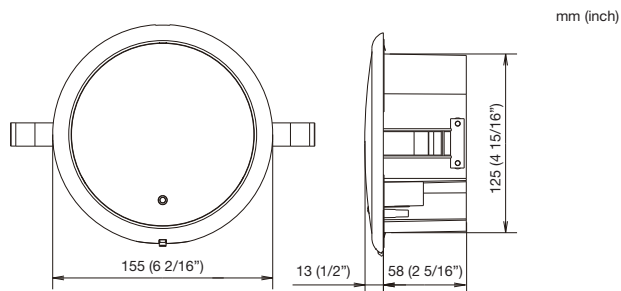
The sensor's advanced signal processing circuit allows it to operate reliably in many different applications and even harsh weather conditions. The large detection area can be adjusted to customize the pattern for either activation or safety applications on any type of automatic door.

Specifications

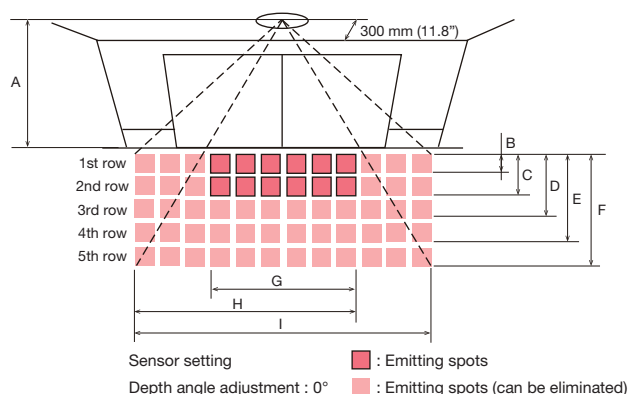
Model	OA-72C
Cover color	Silver
Mounting height	2.0 (6'7") to 4.0 m (13'1")
Detection area adjustments	Depth -15 to 10° Width -10 to +10°
Detection method	Active infrared reflection
Power supply	12 to 24 VAC (±10%) 12 to 30 VDC (±10%)
Power consumption	< 1.5 w (< 5 VA at AC)
LED Operating indicator	Green / stand-by Red / 1st row detection Orange / 2nd to 5th rows detection
Output	Form C relay 50 V 0.3 A max. (resistance load)
Relay hold time	Approx. 0.5 sec.
Response time	< 0.3 sec.
Operating temperature	-20 to +55°C (-4 to 131°F)
Dimensions	ø 155 mm, 66.5 mm (h)
Weight	320 g (11.2 oz)
Accessories	1 3 m (9'10") Connection cable 1 Mounting template
Option	Ivory surface mount cover

The recommended mounting position is 300 mm away from the door.
* When the mounting height is 4.0 m, set the mounting position more than 300 mm away from the door.

Dimensions



Detection Area

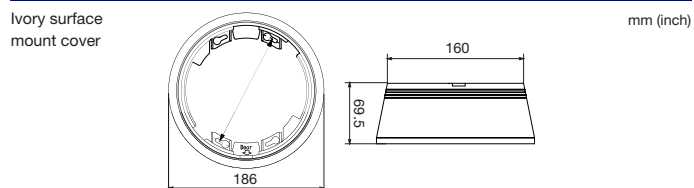


	2.20 (7'3")	2.50 (8'2")	3.00 (9'10")	3.50 (11'6")	4.00 (13'1")
A	2.20 (7'3")	2.50 (8'2")	3.00 (9'10")	3.50 (11'6")	4.00 (13'1")
B	0.13 (5.1")	0.15 (5.9")	0.18 (7.1")	0.21 (8.3")	0.24 (9.4")
C	0.37 (1'3")	0.43 (1'5")	0.51 (1'8")	0.60 (1'12")	0.69 (2'3")
D	0.63 (2'1")	0.72 (2'4")	0.87 (2'10")	1.01 (3'4")	1.16 (3'10")
E	0.93 (3'1")	1.06 (3'6")	1.28 (4'2")	1.49 (4'11")	1.71 (5'7")
F	1.24 (4'1")	1.41 (4'8")	1.70 (5'7")	1.98 (6'6")	2.26 (7'5")
G	1.08 (3'7")	1.24 (4'1")	1.48 (4'10")	1.73 (5'8")	1.98 (6'6")
H	1.65 (5'5")	1.88 (6'2")	2.25 (7'5")	2.63 (8'8")	3.00 (9'10")
I	2.25 (7'5")	2.57 (8'5")	3.08 (10'1")	3.59 (11'9")	4.10 (13'5")

Unit: m (feet,inch)

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

Option



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Active Infrared Door Sensors



OA-203C series



Thin Design
(Thickness 29.9 mm)

Black

Silver

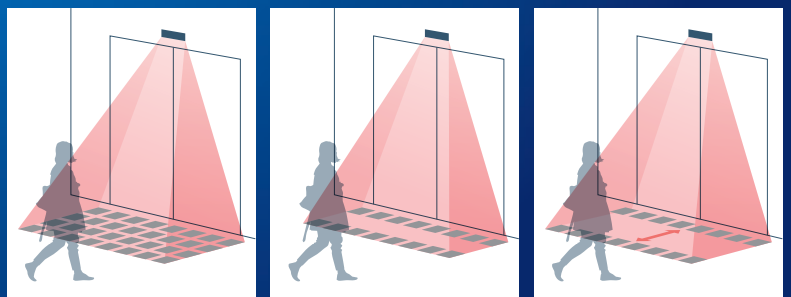


Depth Width Horizontal angle Vertical angle

$$4 \times 4 \times 5 \times 9 = 720$$

Detection Area Patterns

The Optex OA-203C is the optimal choice for both safety and activation on all types of automatic doors.



Product line up

Model	Description	Voltage	Color
OA-203C (BL)	Four rows AIR	12-30 V	Black
OA-203C (S)	Four rows AIR	12-30 V	Silver
OA-203C BL-2	Two rows AIR	12-30 V	Black
OA-203C S-2	Two rows AIR	12-30 V	Silver
OA-203V-1 S	One row AIR	12-110 V	Silver

Presence Detection Function

Safety is assured by the two rows of presence detection closest to the door. The sensor detects a person or object and holds the door open as long as they are near the threshold area, even if they stop or pause.

All conditions

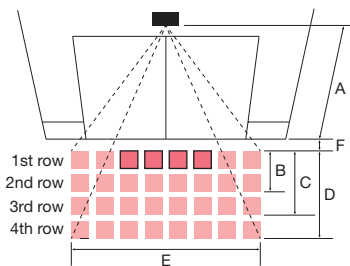
Snow mode and variable sensitivity adjustments make this sensor suitable for every application and even weather conditions.

Easy installation

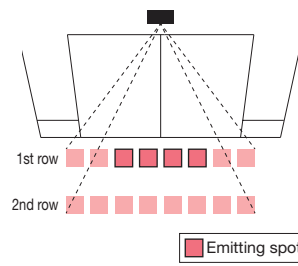
The Optex OA-203C is simple to install. All the settings are mechanically adjustable with dip switch and levers.

Detection Area

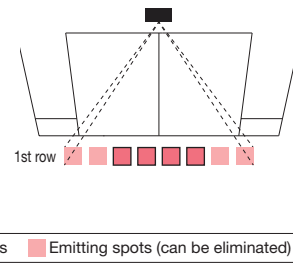
OA-203C (BL), OA-203C (S)



OA-203C BL-2, OA-203C S-2



OA-203V-1



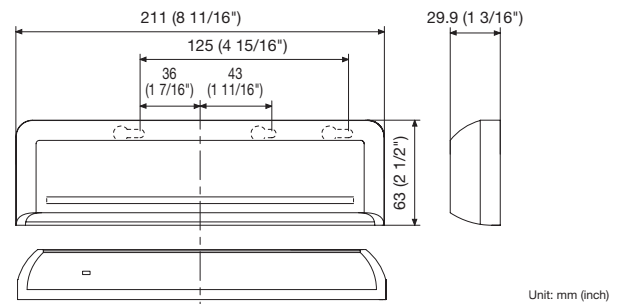
■ Emitting spots ■ Emitting spots (can be eliminated)

	m (feet, inch)				
A	2.00 (6' 6 3/4")	2.20 (7' 2 5/8")	2.50 (8' 2 7/16")	2.70 (8' 10 5/16")	3.00 (9' 10 1/8")
B	0.28 (11")	0.31 (1' 3/16")	0.35 (1' 1 3/4")	0.38 (1' 2 15/16")	0.41 (1' 4 9/16")
C	0.68 (2' 2 3/4")	0.75 (2' 5 1/2")	0.85 (2' 9 9/16")	0.92 (3' 1/4")	1.02 (3' 4 3/16")
D	1.18 (3' 10 7/16")	1.30 (4' 3 3/16")	1.48 (4' 10 1/4")	1.59 (5' 2 5/8")	1.77 (5' 9 11/16")
E	2.10 (6' 10 11/16")	2.30 (7' 6 9/16")	2.60 (8' 6 3/8")	2.80 (9' 2 1/4")	3.10 (10' 2 1/16")
F	0.16 (6 5/16")	0.18 (7 1/16")	0.20 (7 7/8")	0.22 (8 11/16")	0.25 (9 13/16")

Specifications

Model	OA-203C
Mounting height	3.0 m (9'10") max.
Detection area adjustments	Eliminate rows B, C, or D (dip switch setting) Depth 4° in or out, 1° per setting Width 7° left or right, 3,5° per setting Shutters eliminate left and right sides
Detection technique	Active infrared reflection
Power supply	12 to 30 V AC/DC
Power consumption	160 mA max. (at 12V AC)
Power/Operating indicator	Green: Standby Red: Presence detection Orange: Motion detection
Output contact	Form C relay 50 V, 0.3 A max. (resistance load)
Relay hold time	Approx. 0.5 s
Response time	<0.3 s
Operating temperature	-20 to +55°C (-4 to +131°F)
Outer dimensions	221 x 63 x 29.9 mm (w x h x d)
Weight	200 g
Accessories	3 m Connection cable with plug 2 Mounting screws 1 Mounting template 1 Area adjustment tool
Available colours	Black (OA-203CBL), silver (OA-203CS)

Dimensions



Unit: mm (inch)

Option

Rain cover M



Manufacturer / Asia sales Div.

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Active Infrared Door Sensors



OA-205V series



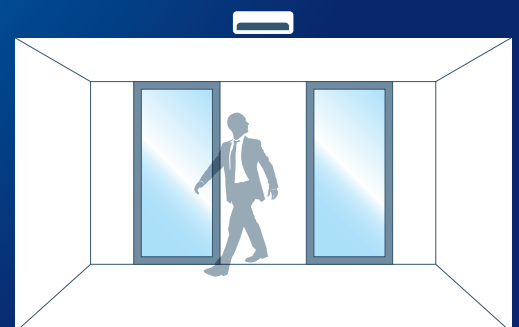
Black

Silver



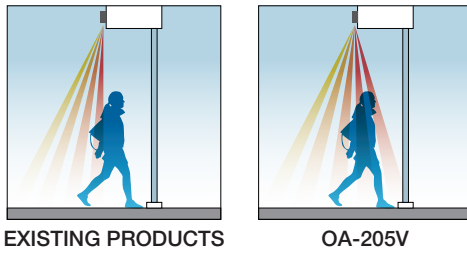
More Flexible, More Safety.

OA-205V is Activation and Safety infrared sensor for slide automatic doors. Two lines of infrared beams enable the safety around the door and deep detection area. High safety performance with the presence detection and wide range of selectable angle.



Safety

Safety is featured by the first row of presence detection area closest to the door. The sensor detects a person or object and holds the door open as long as they are near the threshold area, even if they stop or pause.



EXISTING PRODUCTS

OA-205V

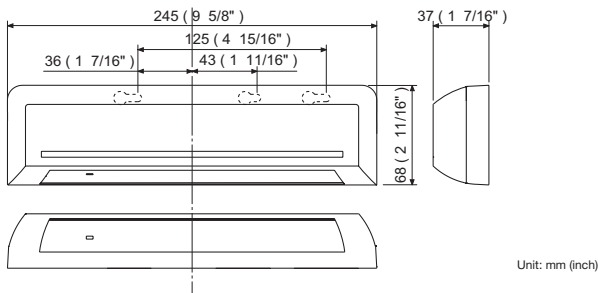
Easy installation

The Optex OA-205V is simple to install. All the settings are mechanically adjustable with dip switch and levers.

Specifications

Model	OA-205V-1	OA-205V-2
Cover color type	Black / Silver	
Mounting height	2.0 (6'6") to 3.0 m (9'10")	
Detection area	See detection area	
Adjustments	Active infrared reflection	
Detection method	Base angle: -2 to 10°	
Detection angle	0 to 10°	
Adjustments	Adjustment screw angle: ±4° adjustable by 1° every one click (Deep / Shallow)	
Detection width	Adjustment screw angle: ±7° adjustable by 3.5° every one click (Right / Left)	
Power supply	12 to 110 V AC / DC (50/60 Hz)	
Current draw	160 mA Max. (at 12 V AC)	
Power consumption	4.0 VA Max. (at 100 V AC)	
Operation indicator	Green / stand-by Red / 1st row detection active Orange / 2nd row detection active	
Output	Form A relay 50 V 0.1 A Max. (resistance load)	
Relay hold time	0.5 sec.	
Response time	< 0.3 sec.	
Operating temperature	-20 to +55°C (-4 to +131°F)	
Weight	230 g (8.2 oz)	
Accessories	1 Cable 3m (9'10"), 2 Mounting screws, 1 Operation manual, 1 Mounting template 1 Area adjustment tool, 1 Protection sheet	

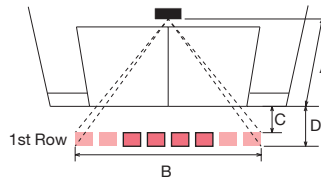
Dimensions



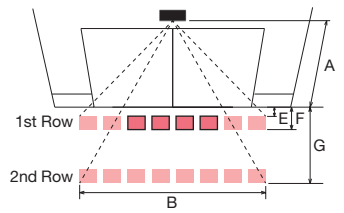
Unit: mm (inch)

Detection Area

OA-205V-1



OA-205V-2



■ Emitting spots ■ Emitting spots (can be eliminated)

Base Angle: 0°, Adjustment Screw Angle: 0°

	m (feet, inch)				
A	2.00 (6'7")	2.20 (7'3")	2.50 (8'2")	2.70 (8'10")	3.00 (9'10")
B	2.10 (6'11")	2.30 (7'7")	2.60 (7'7")	2.80 (9'2")	3.10 (10'2")
C	0.73 (2'5")	0.80 (2'7")	0.91 (2'12")	0.98 (3'3")	1.09 (3'7")
D	0.85 (2'9")	0.93 (3'1")	1.06 (3'6")	1.14 (3'9")	1.27 (4'2")
E	0.16 (6")	0.18 (7")	0.20 (8")	0.22 (9")	0.25 (10")
F	0.27 (11")	0.29 (11")	0.33 (1'1")	0.36 (1'2")	0.40 (1'4")
G	1.34 (4'5")	1.47 (4'10")	1.68 (5'6")	1.81 (5'11")	2.01 (6'7")

Base Angle: 10°, Adjustment Screw Angle: 0°

	m (feet, inch)				
A	2.00 (6'7")	2.20 (7'3")	2.50 (8'2")	2.70 (8'10")	3.00 (9'10")
B	2.40 (7'10")	2.64 (8'8")	3.00 (9'10")	3.24 (10'8")	3.60 (11'10")
C	1.25 (4'1")	1.38 (4'6")	1.56 (5'1")	1.69 (5'7")	1.88 (6'2")
D	1.41 (4'8")	1.55 (5'1")	1.76 (5'9")	1.90 (6'3")	2.12 (6'11")
E	0.51 (1'8")	0.56 (1'10")	0.64 (2'1")	0.69 (2'3")	0.77 (2'6")
F	0.65 (2'2")	0.72 (2'4")	0.81 (2'8")	0.88 (2'11")	0.98 (3'3")
G	2.05 (6'9")	2.26 (7'5")	2.56 (8'5")	2.77 (9'11")	3.08 (10'11")

Options

Rain cover L



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Active Infrared Door Sensors

with Threshold Safety function



OA-AXIS series



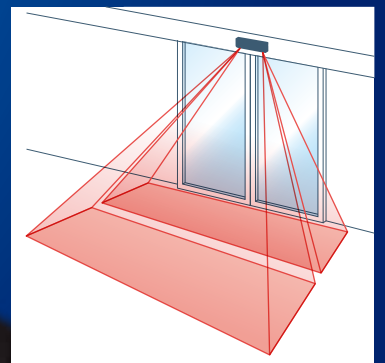
Black

Silver

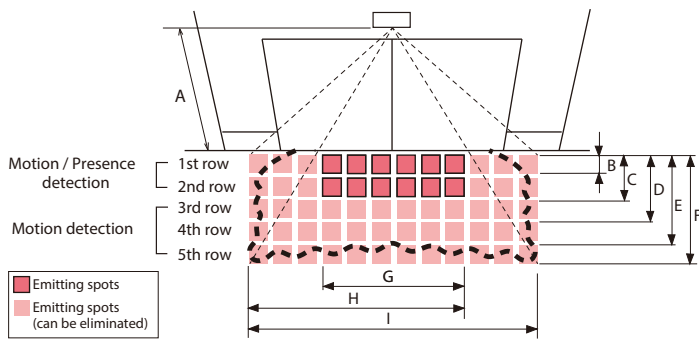


Large and Independent Detection Area

By using the unique Optex presence detection technique, the OA-Axis series provide maximum safety around the threshold as well as a large motion detection area for door activation.



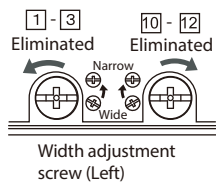
Detection Area



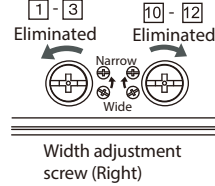
	m (feet, inch)				
A	2.20 (7'2 5/8")	2.50 (8'2 7/16")	2.70 (8'10 5/16")	3.00 (9'10 1/8")	3.50 (11'5 13/16")
B	0.14 (5 1/2")	0.16 (6 5/16")	0.18 (7 1/16")	0.20 (7 7/8")	0.23 (9 1/16")
C	0.42 (1'4 9/16")	0.48 (1'6 7/8")	0.52 (1'8 1/8")	0.58 (1'10 13/16")	0.67 (2'2 3/8")
D	0.82 (2'8 5/16")	0.93 (3' 5/8")	1.00 (3'3 3/8")	1.10 (3'7 5/16")	1.30 (4'3 3/16")
E	1.35 (4'5 1/8")	1.54 (5' 5/8")	1.66 (5'5 3/8")	1.85 (6' 13/16")	2.16 (7'1 1/16")
F	1.90 (6'2 13/16")	2.17 (7'1 7/16")	2.34 (7'8 1/8")	2.60 (8'6 3/8")	3.03 (9'11 5/16")
G	1.33 (4'4 3/8")	1.51 (4'11 7/16")	1.63 (5'4 3/16")	1.81 (5'11 1/4")	2.11 (6'11 1/16")
H	2.05 (6'8 11/16")	2.32 (7'7 5/16")	2.51 (8'2 13/16")	2.79 (9'1 13/16")	3.26 (10'8 3/8")
I	2.78 (9'1 7/16")	3.15 (10'4")	3.40 (11'1 7/8")	3.79 (12'5 3/16")	4.42 (14'6")

Width detection area adjustment

1st to 3rd rows

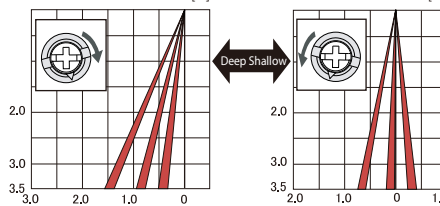


4th and 5th rows

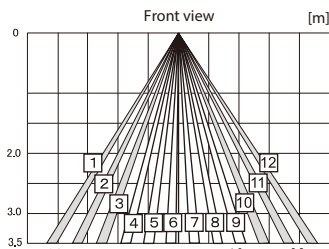
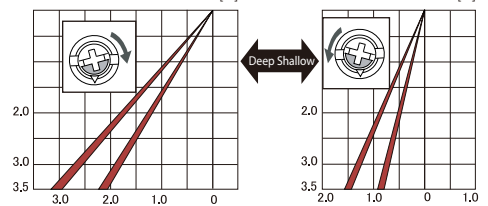


Width detection area adjustment

1st to 3rd rows : -6° to +6°

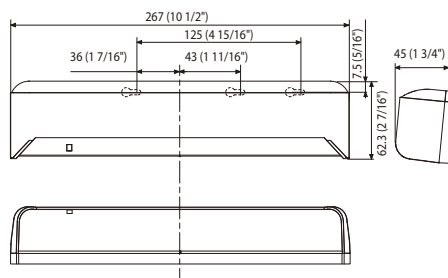


4th and 5th rows : +26° to +44°



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

Dimensions



Specifications

Model	OA-Axis I	OA-Axis II	OA-Axis T
Cover colors	Black / Silver		
Mounting height	2.2 to 3.5 m (7.2 to 11.5 ft.)		2 to 3 m (6.7 to 9.10 ft.)
Detection angle adjustments	1st - 3rd rows -6° to +6° 4th and 5th rows +26° to +44°		
Detection method	Active infrared reflection		
Power supply	12 to 24 V AC ± 10% (50 / 60 Hz) / 12 to 30 V DC ± 10%		
Power consumption	< 3 VA	< 4 VA	< 2.5 W (< 4 VA at AC)
LED operating indicator	Green / stand by, Blinking red / 1st row detection, Red / 2nd row detection		
Output	Form C relay, 50 V, 0.3 A max.	1st-3rd row Form C relay 50 V 0.3 A max. (resistance load) 3rd-5th row Form C relay 50 V 0.3 A max. (resistance load)	Activation output : 3rd - 5th row Form A relay 50 V 0.3 A max. (resistance load) Safety / test output : 1st, 2nd row Open coupler (NPN) 5 to 50 VDC Current / 100 mA Max. Dark current / 600 mA Max. (resistance load)
Output hold time	Approx. 0.5 sec.		
Response time	< 0.3 sec.		
Operating temperature	-4 to +131 °F		
Weight	320 g		
Accessories	3m connection cable, 2 mounting screws, 1 mounting template, 1 area adjustment tool		

Manufacturer / Asia sales Div.

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Active Infrared Door Sensor



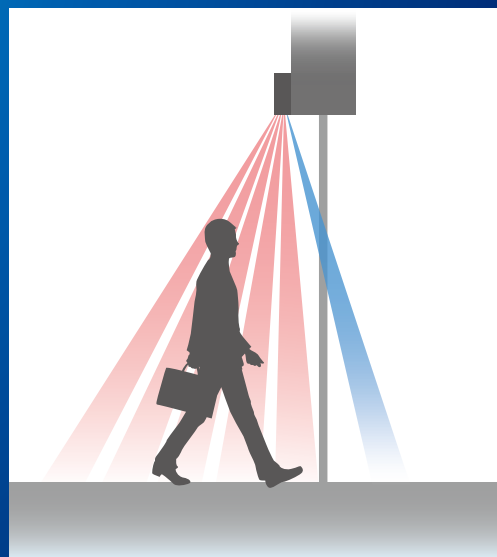
OA-FLEX T



Black

Flexibility for More Safety and More Reliability

Whole presence detection capability OA-FLEX T can use detection area as presence detection area and possible to utilize for various applications.



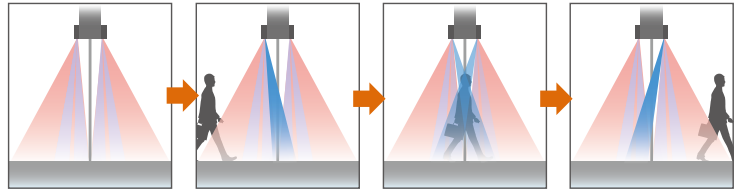
Adapted in Cold District

-31°F to 131°F





How it Works: When the approach area detects a person or object, the sensor will activate the door and turn on the "BLUEZONE" 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 "BLUEZONE" will ignore the door panels and allow the door to safely close.

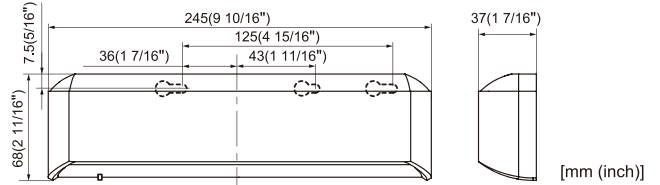


Monitoring Capability

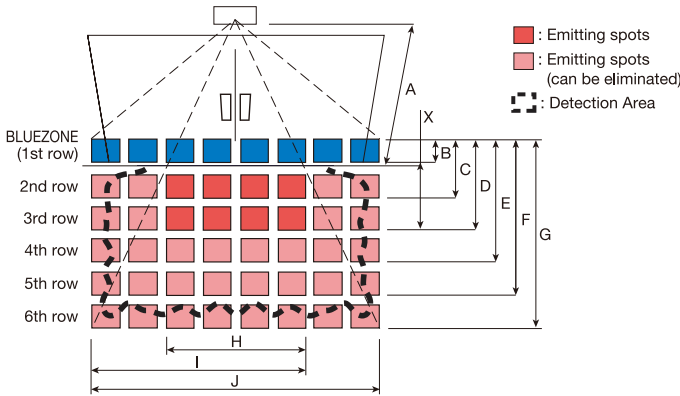
OA-FLEX T has built-in "monitoring capability". The OA-FLEX T monitors all its critical functions and notifies compatible controls when an error occurs. Self monitoring capability ensures a higher level of performance over the life of the sensor.

Complied with New ANSI standard

Dimensions



Detection Area



Emitting area

	[m (feet,inch)]			
A	2.00 (6'7")	2.30 (7'7")	2.50 (8'2")	3.00 (9'10")
B	0.13 (5")	0.16 (6")	0.17 (7")	0.21 (8")
C	0.38 (1'3")	0.46 (1'6")	0.50 (1'8")	0.60 (1'12")
D	0.71 (2'4")	0.86 (2'10")	0.94 (3'1")	1.13 (3'8")
E	0.84 (2'9")	1.01 (3'4")	1.09 (3'7")	1.31 (4'4")
F	1.34 (4'5")	1.62 (5'4")	1.76 (5'9")	2.11 (6'11")
G	1.75 (5'9")	2.11 (6'11")	2.29 (7'6")	2.75 (9')
H	0.92 (3')	1.11 (3'8")	1.20 (3'11")	1.45 (4'9")
I	1.49 (4'11")	1.80 (5'11")	1.95 (6'5")	2.34 (7'8")
J	2.06 (6'9")	2.48 (8'2")	2.69 (8'10")	3.23 (10'7")

Charts show the values in the following area angle adjustment settings ; Depth : 0° Width : 0°

Specifications

Model	OA-FLEX T
Cover color	Black
Mounting height	2.0 m (6'7") to 2.5 m (8'2")
Detection area	See DETECTION AREA
Detection method	Active infrared reflection(*1)
Area angle adjustment	Depth : -8° to +8° Width : ±7° (2 clicks with 3.5° every click-Left/Right)
Power supply (*2)	12 to 24 VAC ±10% (50 / 60 Hz) 12 to 30 VDC ±10%
Power consumption	< 2.0 W (< 5 VA at AC)
Operation indicator	See Operation indicator table
Operating humidity	< 80%

Test input	Opto coupler Voltage / 5 to 30 VDC Current / 6 mA Max. (30 VDC)
Activation output	Form A relay 50 V 0.3 A Max. (Resistance load)
Safety output	Form A relay 50 V 0.3 A Max. (Resistance load)
Operating temperature	-35 to +55°C (-31 to 131°F)
Noise level	< 70 dBA
Output hold time	Approx. 0.5 sec.
Response time	< 0.3 sec.
IP rate	IP54
Weight	220 g (7.8 oz)

Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 3 m(9'10") (8 x 0.22 mm² AWG24) (*3)
-------------	---------------------------------------------------------------------------------------------------------------------------------------------

*1 : BLUEZONE (1st row), 2nd and 3rd rows have a presence detection function.
*2 : When using this sensor, the sensor has to be connected to a door system which has the SELV circuit.
*3 : Overcurrent protection with less than 2A.

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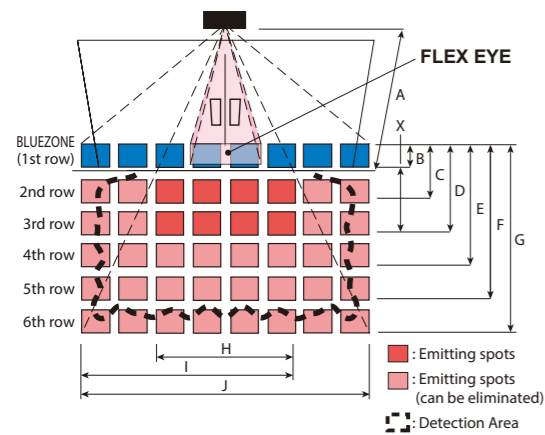
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Detection Area



unit : m

	2.00	2.30	2.50	3.00
A	2.00	2.30	2.50	3.00
B	0.13	0.16	0.17	0.21
C	0.38	0.46	0.50	0.60
D	0.71	0.86	0.94	1.13
E	0.84	1.01	1.09	1.31
F	1.34	1.62	1.76	2.11
G	1.75	2.11	2.29	2.75
H	0.92	1.11	1.20	1.45
I	1.49	1.80	1.95	2.34
J	2.06	2.48	2.69	3.23

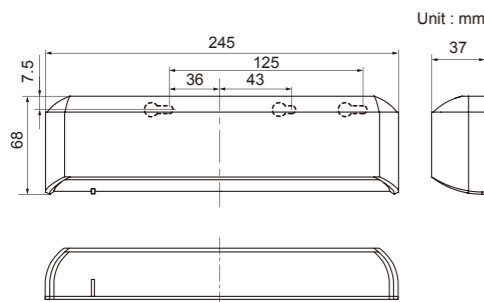
Charts show the values in the following area angle adjustment settings ; Depth :0° Width :0°

Specifications

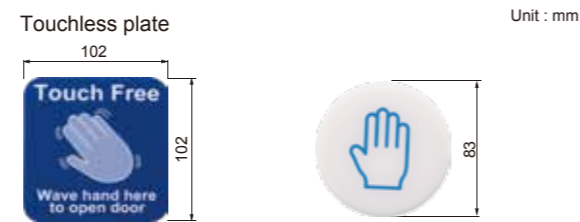
Model	AIR-SLIDE 2
Cover color	Black
Mounting height	2.0 m to 3.0 m
Detection area	See DETECTION AREA
Detection method	Active infrared reflection(*1)
Area angle adjustment	Depth : -8° to +8° Width : ±7° (2 clicks with 3.5°every click-Left/Right)
FLEX EYE angle adjustment	Depth : -14° to +2° Width : ±42° (7 clicks with 6°every click-Left/Right)
Power supply (*2)	12 to 24 V AC ±10% (50 / 60 Hz) 12 to 30 V DC ±10%
Power consumption	< 2.5 W (< 6 VA at AC)
Operation indicator	See Operation indicator table
Activation output	Form A relay 50 V 0.3 A Max. (Resistance load)
Safety output	Form A relay 50 V 0.3 A Max. (Resistance load)
Operating temperature	-35 to +55°C
Operating humidity	< 80%
Noise level	< 70 dBA
Output hold time	Approx. 0.5 sec.
Response time	< 0.3 sec.
IP rate	IP54
Weight	230 g
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 3 m (8 × 0.22 mm ² AWG24) (*3)

*1 : BLUEZONE (1st row), 2nd and 3rd rows have a presence detection function.
*2 : When using this sensor, the sensor has to be connected to a door system which has the SELV circuit.
*3 : Overcurrent protection with less than 2A.

Dimensions



Option



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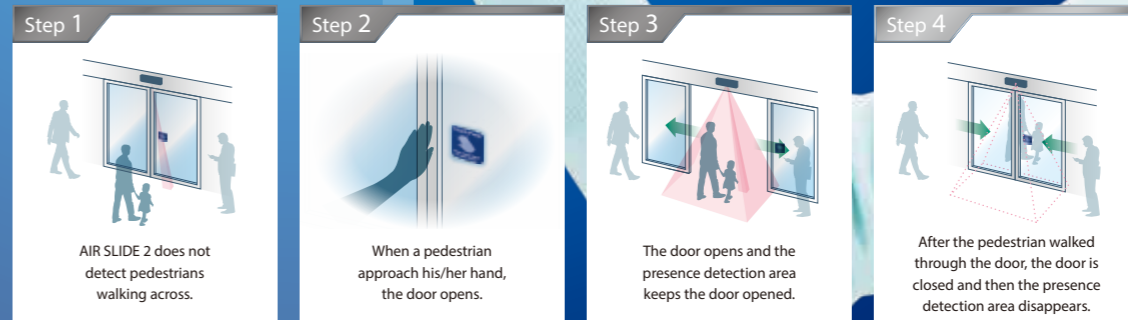
Thailand Subsidiary

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Active Infrared Door Sensor with Built-in Touchless Switch

AIR-SLIDE 2

Wave your hand
Here to open door.



Energy Saving

Eliminates unwanted activations due to cross traffic to improve air conditioning efficiency.

Shop owner

I would like to avoid unnecessary door openings due to cross traffic to improve air conditioning efficiency. My shop is facing with a busy street.



No wiring,
No contamination,
No wasting energy.



Germ Free

Eliminates one of the only cross contamination points on a low energy or knowing act door.

Nurse

Touch switch is contamination points for a knowing act or low energy door. I want to open a door without touching anything.

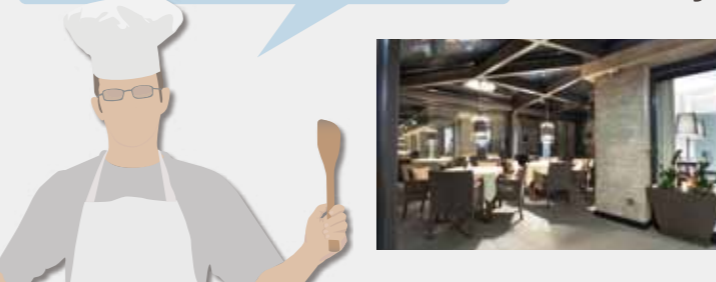


Safety

Provides safety throughout the threshold area keeping the door open until all people have moved away.

Chef

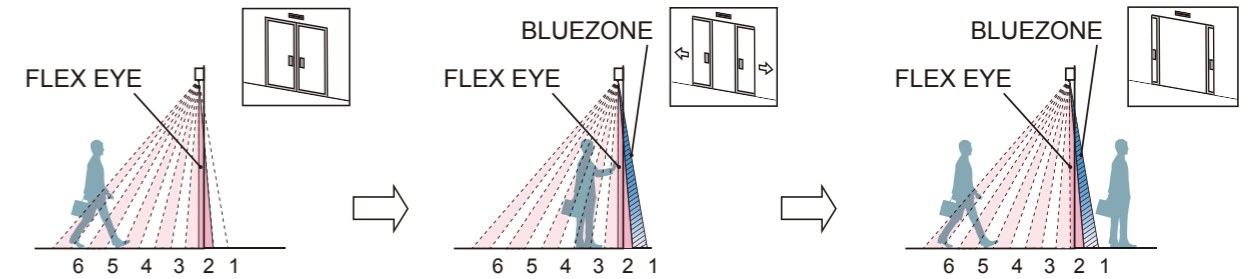
I want an automatic door for my kitchen but what I need is a limited detection area because my staff is walking around in front of a door.



FLEX EYE (knowing act detection area)

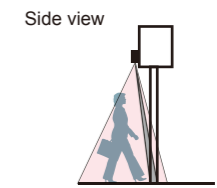
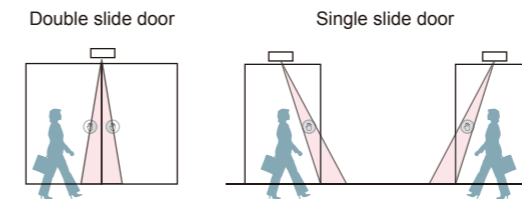
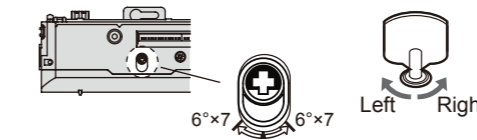
Blue zone Active infrared

This sensor is designed to detect a hand approaching to a touchless plate as a knowing activation device. FLEX EYE means a detection area for the hand detection. When FLEXEYE mode is enabled, both FLEXEYE and 2nd to 4th row of detection area will detect passers.



Width angle adjustment

Depth angle adjustment



BLUEZONE technology

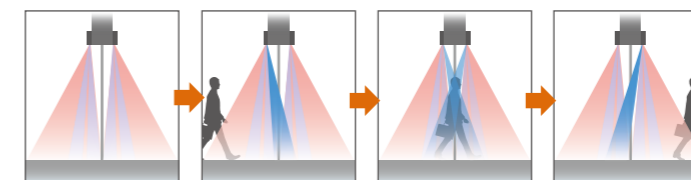


NO WIRING from the sensor to the touchless plate

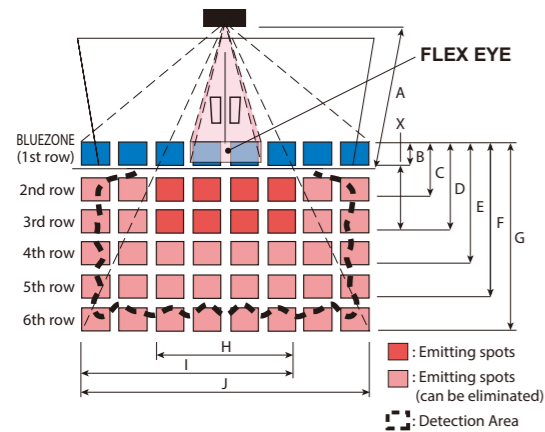
How it Works: When the approach area detects a person or object, the sensor will activate the door and turn on the "BLUEZONE" which detects through the threshold. As long as someone is in the detection area, the sensor will keep the door in the open position. Once the area is cleared, the "BLUEZONE" will ignore the door panels and allow the door to safely close.



NO WIRING



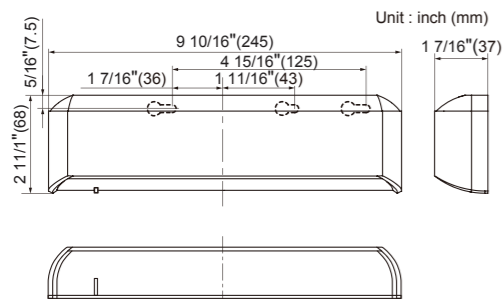
Detection Area



	feet, inch (m)			
A	6'7" (2.00)	7'7" (2.30)	8'2" (2.50)	9'10" (3.00)
B	5" (0.13)	6" (0.16)	7" (0.17)	8" (0.21)
C	1'3" (0.38)	1'6" (0.46)	1'8" (0.50)	1'12" (0.60)
D	2'4" (0.71)	2'10" (0.86)	3'1" (0.94)	3'8" (1.13)
E	2'9" (0.84)	3'4" (1.01)	3'7" (1.09)	4'4" (1.31)
F	4'5" (1.34)	5'4" (1.62)	5'9" (1.76)	6'11" (2.11)
G	5'9" (1.75)	6'11" (2.11)	7'6" (2.29)	9' (2.75)
H	3' (0.92)	3'8" (1.11)	3'11" (1.20)	4'9" (1.45)
I	4'11" (1.49)	5'11" (1.80)	6'5" (1.95)	7'8" (2.34)
J	6'9" (2.06)	8'2" (2.48)	8'10" (2.69)	10'7" (3.23)

Charts show the values in the following area angle adjustment settings ; Depth :0° Width :0°

Dimensions



Specifications

Model	AIR-SLIDET
Cover color	Black
Mounting height	6'7" (2.0 m) to 9'10" (3.0 m)
Detection area	See DETECTION AREA
Detection method	Active infrared reflection(*1)
Area angle adjustment	Depth : -8° to +8° Width : ±7° (2 clicks with 3.5° every click-Left/Right)
FLEX EYE angle adjustment	Depth : -14° to +2° Width : ±42° (7 clicks with 6° every click-Left/Right)
Power supply (*2)	12 to 24 V AC ±10% (50 / 60 Hz) 12 to 30 V DC ±10%
Power consumption	< 2.5 W (< 6 VA at AC)
Operation indicator	See Operation indicator table
Test input	Opto coupler Voltage / 5 to 30 V DC Current / 6 mA Max. (30 V DC)
Activation output	Form A relay 50 V 0.3 A Max. (Resistance load)
Safety output	Form A relay 50 V 0.3 A Max. (Resistance load)
Operating temperature	-31 to 131°F (-35 to +55°C)
Operating humidity	< 80%
Noise level	< 70 dBA
Output hold time	Approx. 0.5 sec.
Response time	< 0.3 sec.
IP rate	IP54
Weight	8.1 oz (230 g)
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 9'10" (3 m) (8 × 0.22 mm ² AWG24) (*3)

*1 : BLUEZONE (1st row), 2nd and 3rd rows have a presence detection function.
*2 : When using this sensor, the sensor has to be connected to a door system which has the SELV circuit.
*3 : Overcurrent protection with less than 2A.

Option



Active Infrared Door Sensor with Built-in Touchless Switch AIR-SLIDET

Wave your hand Here to open door.



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No wiring,
No contamination,
No wasting energy.



Energy Saving

Eliminates unwanted activations due to cross traffic to improve air conditioning efficiency.

Shop owner

I would like to avoid unnecessary door openings due to cross traffic to improve air conditioning efficiency. My shop is facing with a busy street.



Germ Free

Eliminates one of the only cross contamination points on a low energy or knowing act door.

Nurse

Touch switch is contamination points for a knowing act or low energy door. I want to open a door without touching anything.



Safety

Provides safety throughout the threshold area keeping the door open until all people have moved away.

Chef

I want an automatic door for my kitchen but what I need is a limited detection area because my staff is walking around in front of a door.

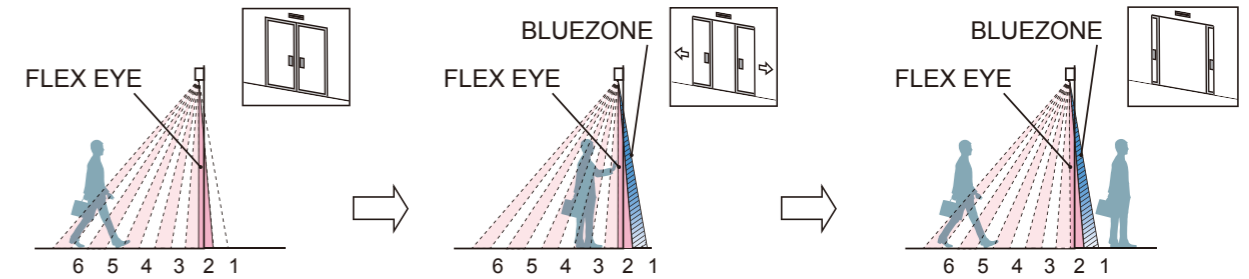


Active Infrared Door Sensor AIR-SLIDE T

FLEX EYE (knowing act detection area)

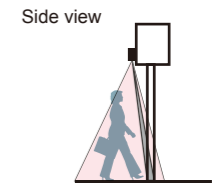
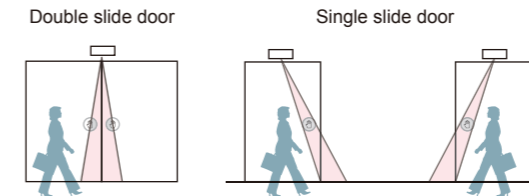
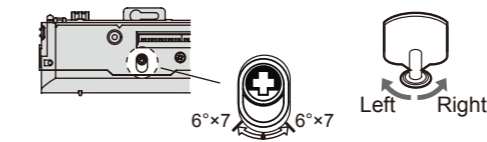
Blue zone Active infrared

This sensor is designed to detect a hand approaching to a touchless plate as a knowing activation device. FLEX EYE means a detection area for the hand detection. When FLEXEYE mode is enabled, both FLEXEYE and 2nd to 4th row of detection area will detect passers.



Width angle adjustment

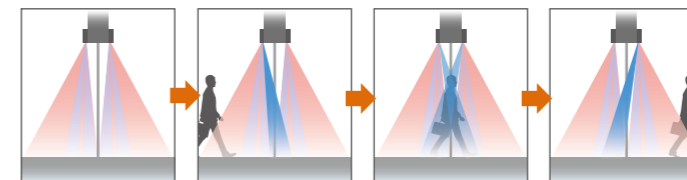
Depth angle adjustment



BLUEZONE technology



How it Works: When the approach area detects a person or object, the sensor will activate the door and turn on the "BLUEZONE" 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 "BLUEZONE" will ignore the door panels and allow the door to safely close.



NO WIRING from the sensor to the touchless plate



NO WIRING

Touchless plate



Monitoring Capability

Complied with New ANSI standard

AIR-SLIDE T has built-in "monitoring capability". The AIR-SLIDE T monitors all its critical functions and notifies compatible controls when an error occurs. Self monitoring capability ensures a higher level of performance over the life of the sensor.

Adapted in Cold District

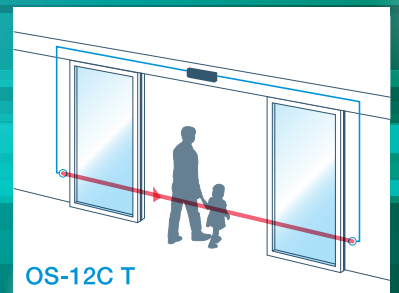
-31 to 131°F (-35 to +55°C)

Miniature Photo Electric Safety Beam



OS-12C T

Single beams type : up to 10 m



The Optex OS-12C T active infrared safety beam system is compatible with any type of automatic door. Its amplifier and sensor heads are designed for fast, simple installation while maintaining the highest standards of safety and reliability.

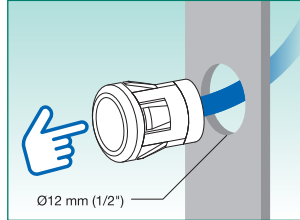
Easy-to-Install Amplifier Unit and Sensor Heads

The Optex OS-12C T amplifier has screwless wiring terminals, which realizes quick installation. Pressing the "Teach-In" button automatically sets the proper sensitivity and self-corrects crossed cables. One amplifier operates one or two pairs of sensor heads.

Teach-in button



One push installation sensor head



Monitoring Capability

OS-12C T has built-in "monitoring capability". OS-12C T monitors all its critical functions and notifies compatible controls when an error occurs. Self-monitoring capability ensures a higher level of performance over the life of the sensor.

Complied with New ANSI standard

Options

Mounting plate (Silver)



PP-S (2pcs)

Sensor head unit



SH-7MC : 7 m
SH-10MC : 10 m

Sensor head holder (Black/Gray)



OS-BH (2pcs)

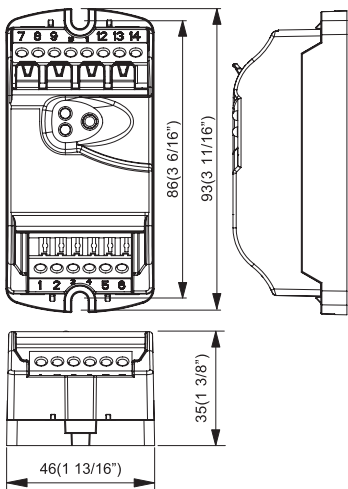
One push outer plate



PO-C (2pcs)

Dimensions

Amplifier



mm[inch]

Sensor heads

One push installation type

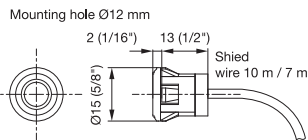
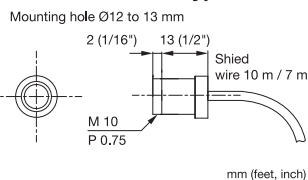


Plate installation type



Specifications

Model	OS-12C T
Installation distance	Less than 10 m (32' 10")
Detection method	Point to point near infrared light beam
Power supply	12 to 24 V AC / 12 to 30 V DC
Current draw	160 mA Max.
Operating indicator	BEAM1 / BEAM2 Stand-by : Green ON / Red ON Detection Active : Green OFF / Red OFF Insufficient sensitivity : Green Blink / Red Blink Test input error : Simultaneous twice Blinking(Red & Green)
Test input	Opto coupler Voltage 5 to 30 V DC Current 6 mA Max.(30 V DC)
Safety Output(Initial setting)	50 V 0.3 A (resistance load) - N.O./N.C. Switchable
Response time	Approx. 0.1 sec. (from the moment of beam cut-off)
Relay hold time	Approx. 0.5 sec.
Operating temperature	-20 to +55°C (-4 to +131°F)
Weight	Amplifier 63 g (2.2 oz)
Component	1 Amplifier, 2 Mounting screws, 1 Manual (Optional sensor head is necessary for operation)

Note : It is possible to use OS-12C T as an amplifier for 1 or 2 beam use by attaching a separately sold SensorHead.

Note : The specifications herein are subject to change without prior notice due to improvements.

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Active infrared Door Sensor

OA-presence



Safety

Reliable

Infinity presence

Sensitivity

Environmental

immunity

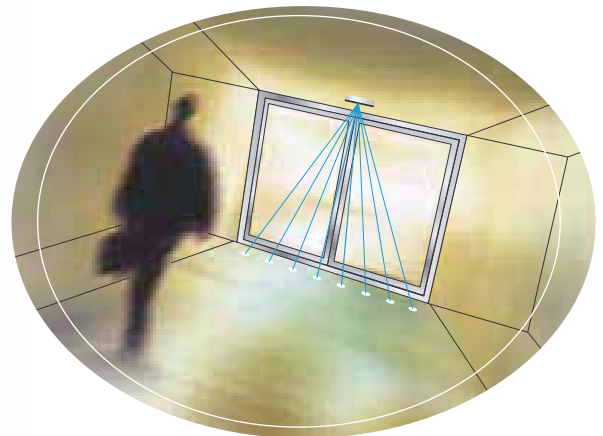
detection

DESIGN

Easy installation

Quality

The Optex OA-Presence is especially developed as a safety sensor. This sensor can serve as an extra safety sensor to protect the threshold against early closing of the door. Besides, there is also the possibility to position the sensor to create extra safety against pinch off near the door leaf during the opening cycle.



Easy installation

The Optex OA-Presence is simple to install. All the settings are mechanically adjustable with dipswitch and levers.

Security

The Optex OA-Presence can serve as an extra threshold safety to prevent early closing of the door. Besides, there is also the possibility to position the sensor to create extra safety against pinch off near the door leaf during the opening movement. In both case the sensor detects persons or objects as long as they are in the threshold area, even if they stop or pause. As threshold safety, the sensor will order the door to open until the person or object has left the area. In case of safety behind the door leaf, the sensor will send a contact to the device, where after the automatic door can be sent, for instance, into a slow mode function.

Design

A very compact and slim design, available in three colours: black, silver and white.

All conditions

Snow mode and variable sensitivity adjustments make this sensor suitable for every application and even at extreme weather conditions.

OA-Presence (S)



OA-Presence (BL)

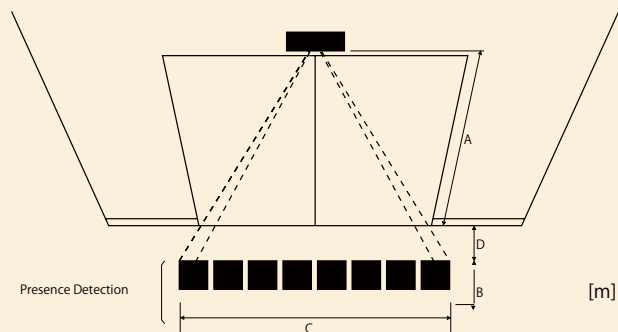


Active Infrared Door Sensor

Specifications

Model	OA-Presence
Mounting Height	max. 3.0 m. (9'10")
Detection Area Adjustments	Depth 4° , in or out Width 7° , left or right
Detection Technique	Active infrared (near infrared reflection)
Power Supply	12 - 24V AC/DC
Current Draw	160mA max.
Power/Operating Indicator	Green LED ON: standby Red LED ON: presence detection
Output Contact	Form C relay 50V, 0.3A (resistance load)
Relay Hold Time	Approx. 0.5 Sec
Operating Temperature	-20° C - +55° C (4° F - +131° F)
Outer Dimensions	221 x 63 x 29.9 mm (w x h x d)
Weight	200 g
Accessories	3 m Connection cable with plug 2 Mounting screws Mounting template Area adjustment tool
Available	Silver (OA-Presence (S)) and black (OA-Presence (BL))

Detection area



Mounting Height A	2.20	2.50	2.70	3.00
Area Depth B (presence detection)	0.16	0.18	0.19	0.21
Area Width C	2.30	2.60	2.80	3.10
Distance to mounting surface D	0.18	0.20	0.22	0.25

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Active infrared **Door Sensor**

OA-PresenceT



Reliable
Easy installation
Quality
Infinity
Threshold safety
Advanced
Active infrared
presence detection
Safety
Side screen safety
Flexible
Certified
Monitored
Sensitivity

The Optex OA-Presence T is designed to create an optimum safety around sliding doors. When using this sensor for threshold safety the use of safety beams is no longer mandatory. The OA-Presence T enables you to install a maximum of threshold and side screen safety in compliance with DIN18650. This sensor is tested and approved by the German test organization TÜV.

Side screen safety

The OA-Presence T can be used as a side screen safety sensor. By installing the sensor at the rear end of the door the OA-Presence T will secure the side screen area and prevent the doors from hitting someone or something during the opening cycle of the door.

Threshold safety

The Optex OA-Presence T is the ideal sensor for threshold safety used in combination with external activators like push buttons, security systems or any kind of activation sensor. By using the OA-Presence T the threshold is completely secured and prevents the door from closing when it is open or during the closing cycle.

Presence detection

The active infrared presence detection of the OA-Presence T can be set very accurately and moved 5° towards or away from the door. When used as a threshold safety sensor the installation of safety beams is no longer mandatory. The sensor detects a person or object and holds the door open as long as they are in the threshold area, even if they stop or pause. The Optex OA-Presence T is tested and approved by the German test organization TÜV and in compliance with the DIN18650, the preliminary European norm EN16005.

Recessed mount

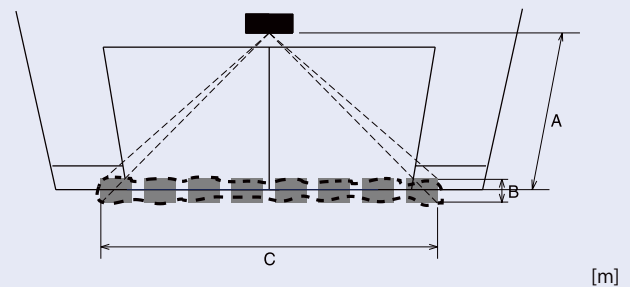
By installing the OA-Presence T on an mounting bracket (to be supplied by the door manufacturer) it is easy to integrate the sensor into the header of the door operator. The sensor is accessible from the bottom so installation and settings can be made without removing the operator's cover.

Active infrared Door Sensor

Specifications

Model	OA-Presence T
Cover colour	Black / silver
Mounting height	2.0 m to 3.0 m (6'7" to 9'10")
Detection area	See detection area chart
Detection method	Active infrared reflection
Depth angle adjustment	-5° to +5°
Power supply	12 - 24V AC (±10%) 12 - 30V DC (±10%)
Power consumption	<2 W (< 3VA at AC)
Operation LED	Green / stand-by Red / detection active
Safety/Test output	Opto coupler (NPN) Voltage / 5 to 50 VDC Current / 100 mA Max. Dark current / 600nA Max. (resistance load)
Test input	Opto coupler Voltage / 5 to 30 VDC Current / 6mA Max. (30VDC) Approx. 0.5 sec.
Output hold time	<0.3 sec.
Response time	<0.3 sec.
Operating temperature	-20° C - +55° C (-4° F - +131° F)
Operating humidity	<80%
IP rate	IP54
Category	2 (EN ISO13849-1 : 2008)
Performance level	d (EN ISO13849-1 : 2008)
Weight	260g
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Cable 3 m(9'10") (6 x 0.14mm ² AWG26 / Overcurrent protection with less than 2A)

Detection area chart



Mounting height A	2.20	2.50	2.70	3.00
Area depth B	0.40	0.45	0.48	0.53
Area width C	2.86	3.25	3.51	3.90

The actual detection area may differ according to the size/material/entry speed of the object and the installation environment.

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Active Infrared Sensor for Door Pocket Safety

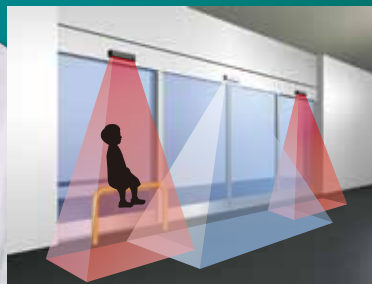


OA-PRESENCE TN



The specialized sensor that detects around the "Door Pocket". It is said that the "Door Pocket" is one of the most attention area around the automatic door.

OA-PresenceTN will change the area to more comfortable, safer compared with now.



Unified Design

The design of OA-Presence TN is unified with the primary motion sensor. It creates the unity for the entrance.

Easy Installation

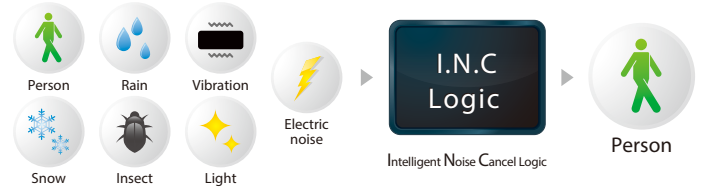
Installation time can be reduced to a minimum by using easily dip switch settings and mechanical adjustments.

European Regulation

OA-Presence TN is in compliance with the European local regulations as EN16005 and DIN 18650, safety tested and approved by the German test organization TÜV.

I.N.C. logic

OA-Presence TN remains stable in all environments thanks to our innovative I.N.C. Logic (Intelligent Noise Cancelling). This feature allows the sensor to detect people reliably near the door while ignoring interference from rain, snow, vibration, insects and ambient light sources.



Specifications

Model	OA-PRESENCE TN
Cover color	Black
Mounting height	2.0 (6'7") to 3.5 m (11'6")
Detection area	See Detection Area
Detection method	Active infrared reflection *1
Depth angle adjustment	-6 to +6°
Power supply *2	12 to 24 VAC ±10% (50 / 60 Hz) 12 to 30 VDC ±10%
Power consumption	< 1 W (< 2 VA at AC)
Operation indicator	See operation indicator table
Safety input	Opto coupler voltage 5 to 30 VDC Current 6 mA Max. (30 VDC)
Safety output	Opto coupler (NPN) Voltage 5 to 50 VDC current 100 mA Max. Dark current 600 nA Max. (resistance load)
Operating temperature	-20 to +55°C (-4 to 131°F)
Operating humidity	< 80%
Noise level	< 70 dBA
Output hold time	< 0.5 sec.
Response time	< 0.3 sec.
IP rate	IP54
Category	2 (EN ISO13849-1 : 2008)
Performance level	d (EN ISO13849-1 : 2008)
ESPE	Type 2
Weight	250 g (8.8 oz)
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 3 m (9'10") (6 × 0.22 mm ² AWG24) *3

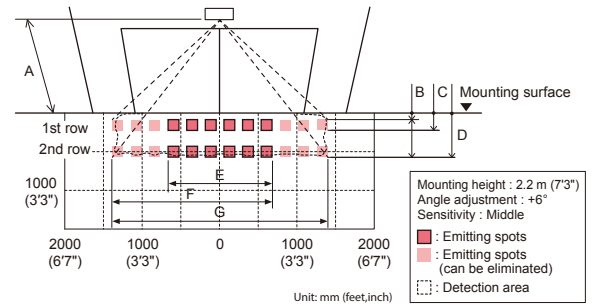
*1 : Active infrared reflection has a presence detection function.

*2 : The sensor has to be connected to a door system which has a SELV circuit.

*3 : Overcurrent protection with less than 2A.

Detection Area

Emitting Area

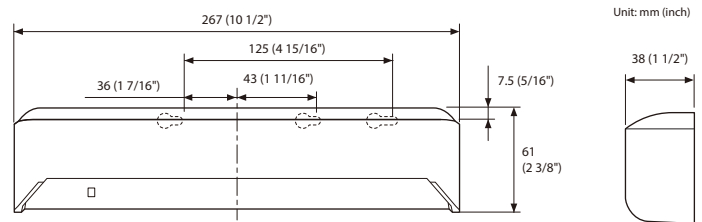


The chart shows the values at depth angle +6°

Unit: m (feet)

	2.00 (6'7")	2.20 (7'3")	2.50 (8'2")	2.70 (8'10")	3.00 (9'10")	3.50 (11'6")
A	2.00 (6'7")	2.20 (7'3")	2.50 (8'2")	2.70 (8'10")	3.00 (9'10")	3.50 (11'6")
B	0.23 (9")	0.25 (10")	0.28 (11")	0.31 (1')	0.34 (1'1")	0.39 (1'3")
C	0.35 (1'2")	0.39 (1'3")	0.44 (1'5")	0.48 (1'7")	0.53 (1'9")	0.61 (2')
D	0.59 (1'11")	0.65 (2'2")	0.74 (2'5")	0.80 (2'7")	0.89 (2'11")	1.03 (3'5")
E	1.21 (3'12")	1.33 (4'4")	1.51 (4'11")	1.63 (5'4")	1.81 (5'11")	2.11 (6'11")
F	1.86 (6'1")	2.05 (6'9")	2.32 (7'7")	2.51 (8'3")	2.79 (9'2")	3.25 (10'8")
G	2.52 (8'3")	2.78 (9'1")	3.15 (10'4")	3.40 (11'2")	3.79 (12'5")	4.42 (14'6")

Dimensions



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Microwave Door Sensor



OM-105C

Directional recognition model

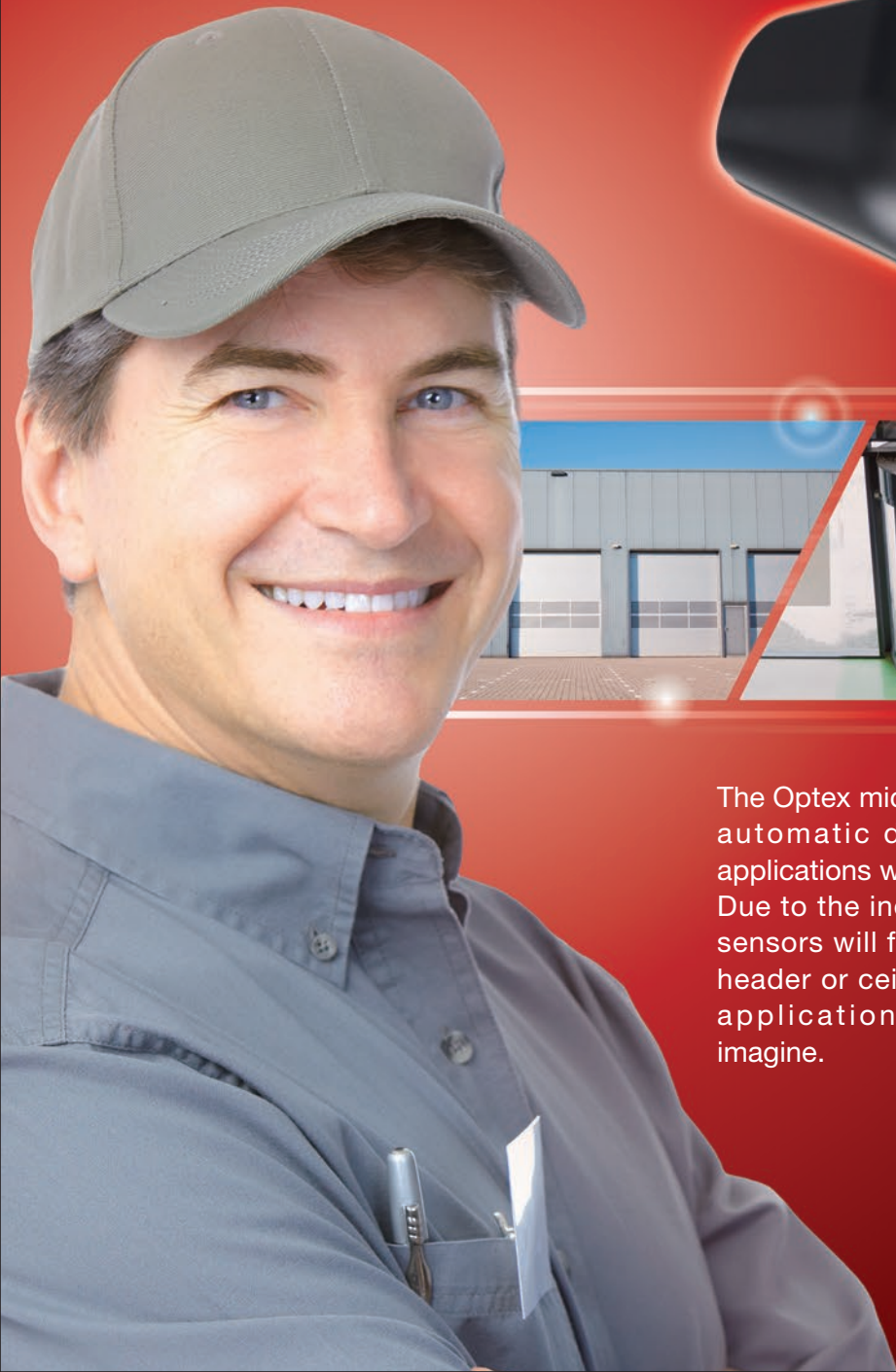


OM-106C



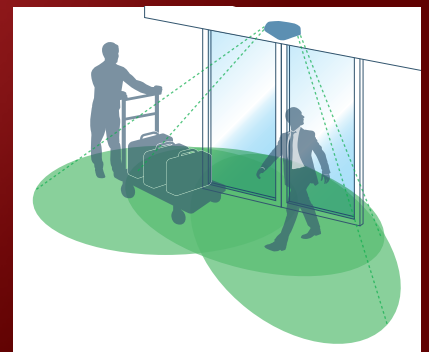
Black

Silver



The Optex microwave sensors provide fast detection for all automatic door installations and particularly for applications with high speed entries.

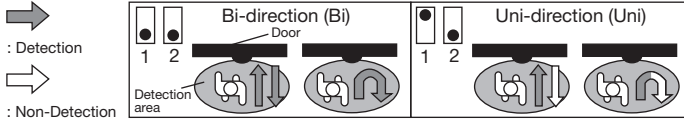
Due to the industrial design and easy installation these sensors will fit on every header or ceiling in any application you can imagine.



Bi / Uni directional setting (OM-106C only)

By selecting the uni directional mode the sensor will only detect traffic approaching the door, allowing the door to close more quickly for departing traffic.

Fast closing of doors offers a large benefit for the end user, because the doors will stay open for a limited time and therefore they will contribute to saving energy.



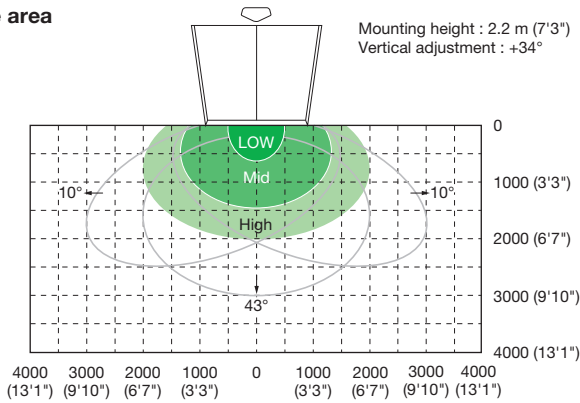
Auto-Caution Mode (OM-106C only)

Auto-caution mode guarantees more reliability to prevent the door from closing, even if a person is wavering in the detection area. OM-106C will change immediately from unidirectional to multi directional for safety purposes.

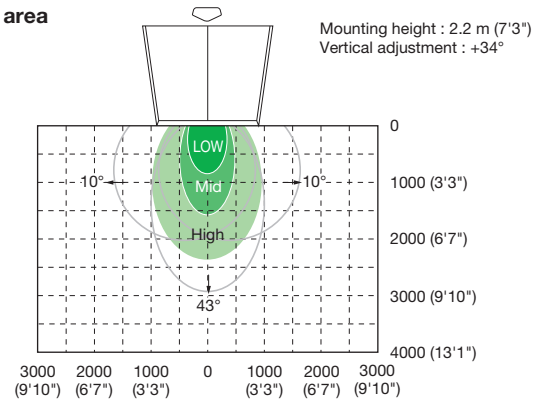


Detection Area

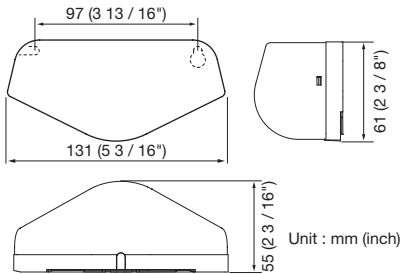
Wide area



Narrow area



Dimensions



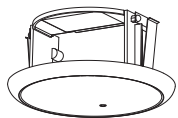
Specifications

Model	OM-105C / 106C
Cover color	Black / Silver
Mounting height	2.0 (6'7") to 3.5 m (11'5")
Detection method	Microwave doppler effect
Power frequency	24.125 GHz
Power density	< 20 dBm
Detection area	See detection area
Vertical adjustment	+10 to +70° (Header mount) +20 to +80° (Ceiling mount)
Horizontal adjustment	30° to left or right
Power supply	12 to 24 VAC (±10%) 12 to 30 VDC (±10%)
Power consumption	< 1.5 W (< 2 VA at AC)
Minimum speed	5 cm (1 15/16") / sec.
Operation indicator	Green / Stand-by Red / Detection Green blinking / Set-up

Output	Form C relay 50 V 0.3 A Max. (Resistance load)
Output hold time	0.5 sec. / 2.0 sec.
Response time	< 0.3 sec.
Operating humidity	< 80%
Operating temperature	-20 to +55 C° (-4 to 131° F)
IP rate	IP54
Weight	140 g (4.9 oz)
Accessories	1 Cable 3 m (9'10") 1 Operation manual 2 Mounting screws 1 Mounting template 1 Narrow lens*

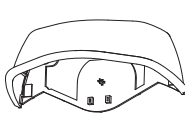
Options

Ceiling mount bracket



MW-CMK

Rain cover



RH-S

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Wireless/Touch-free Door Switch



Wireless
Easy Installation
Infrared Technology

Touch Free
Reliable
Healthy
No Damage from Gurneys
Germ Free
Quality
Flexible RF Range

The Optex Air-Wave Touch-Free Door Switch provides reliable activation of Low Energy and Knowing-Act Doors without the need for direct contact by the user. Eliminate one of the main cross-contamination points near automatic doors, the push switch. At the same time, reduce installation cost and time by going wireless. Proprietary RF frequency and 2-year battery life make the Air-Wave the first choice for professional door distributors.

Touch Free

Eliminate one of the only cross contamination points on a low energy or knowing act door by installing the Optex Air-Wave Touchless Switch.

All Conditions

The Optex Air-Wave system can be used both indoors and outdoors.

Long Battery Life

Thanks to our advanced Infrared Technology, we are able to provide a 2 year battery life (250 activations per day average).

The Air-Wave Kit includes 2 Air-Wave TX, 1 Air-Wave RX, and 2 Hand stickers.

Foot stickers are also available as an option.



Durability

Mounting the sensor at ceiling height eliminates the chance of damage due to accidental impact of gurneys, carts or intentional vandalism.

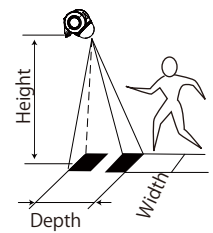
Wireless

Reliable wireless technology reduces the cost and hassle of installing hardwired switches.

The Air-Wave TX detection area pattern is as illustrated when installed on the wall.

Area Pattern = Recommended mounting height

Height	Area - Width x Depth
7' (2.1m)	8" (0.20m) x 12" (0.30m)
8' (2.4m)	9" (0.23m) x 14" (0.35m)
9' (2.7m)	10" (0.26m) x 16" (0.39m)
10' (3m)	11" (0.29m) x 17" (0.44m)



Air-Wave Door Switch

Specifications

Model	Air-Wave TX
Description	Indoor/Outdoor Sensor Transmitter
Detection method	Passive Infrared
Detection Area	10ft (3m) max.
Status Indicator	Red LED
Power Source	9V Alkaline Battery
Battery Life	Approx. 2 years [250 times per day at 70° F(20° C)]
Frequency	418MHz
Operating temperature	15° F ~ 120° F (-10° C ~ +50° C)
Installation Location	Outdoor/Indoor
Weight	6.3 oz (160g)
Accessories	Mounting Screw x 2; Touchless sticker for hand; Plastic Anchor x 2; Plastic Shim x 2

Specifications may change without notice

Model	Air-Wave RX
Description	Wireless Receiver with Relay Output
Power Source	12~24V AC/DC
	Standby: 30mA
	Operating: 80mA
Relay Output	Form "C" MAX 1A/50VAC - 24VDC
Output Timer	Selectable: 1/5/30/60sec
Status Indicator	Power Indicator: Green; Zone Indicator: Red x 3
Frequency	418 MHz
Operating Temperature	15° F ~ 104° F (-10° C ~ +40° C)
Installation Location	Indoor
Weight	4.2 oz (120g)
Accessories	Mounting Screw x 1

Specifications may change without notice

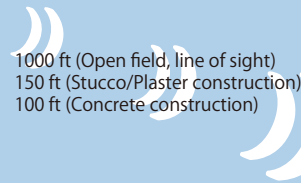
Detection Area Pattern

Wireless Transmission Range

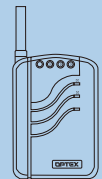
Dimensions



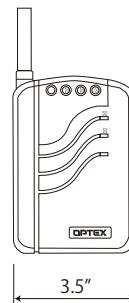
Sensor unit
Air-Wave TX



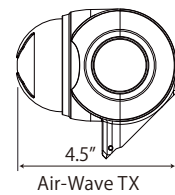
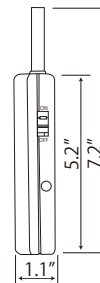
1000 ft (Open field, line of sight)
150 ft (Stucco/Plaster construction)
100 ft (Concrete construction)



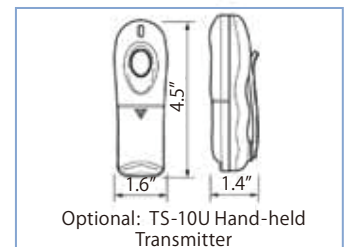
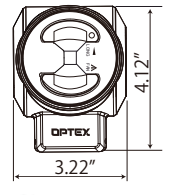
Wireless Receiver
Air-Wave RX



Air-Wave RX



Air-Wave TX



Optional: TS-10U Hand-held
Transmitter

OPTEX CO.,LTD.

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Header mount Active Infrared Door Sensor for Swing Door



Pro-Swing **PREMIER T**

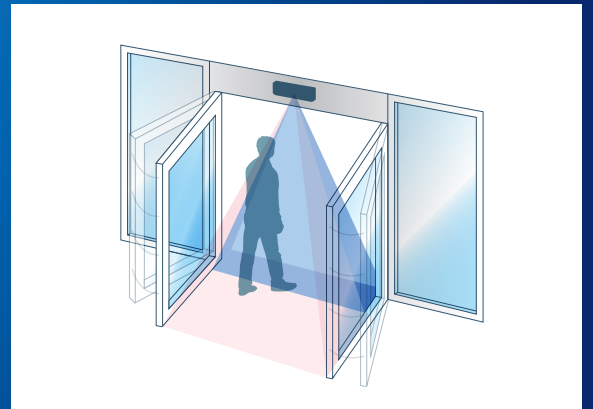
Sensor head : OA-613 T
Controller : OC-913C T

Premium Safety and Efficiently

- Full open Full closed Swing Area detection
- Universal compatibility with all operators
- Full open look-back through the threshold



Black

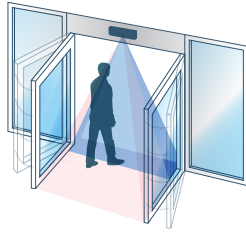


ECO

ELIMINATES startle factor
by providing full swing area coverage
Closed / Open / In Motion without
additional OHP



How it Works: When the approach area detects a person or object, the sensor will activate the door and turn on the "BLUEZONE" 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 "BLUEZONE" will ignore the door panels and allow the door to safely close.



Monitoring Capability

PREMIER T has built-in "monitoring capability". PREMIER T monitors all its critical functions and notifies compatible controls when an error occurs. Self monitoring capability ensures a higher level of performance over the life of the sensor.

Complied with New ANSI standard

Detection Area

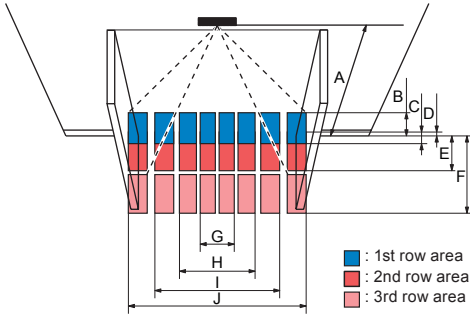
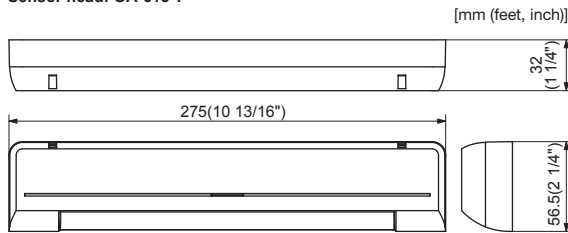


Chart shows figures if all angles are set at 0degree.

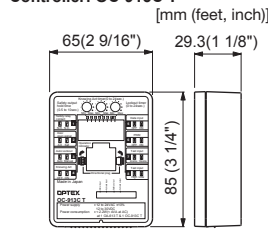
	[feet, inch (mm)]		
A	6'7" (2000)	7'3" (2200)	2500 (8'2")
B	1'2" (364)	1'4" (400)	1'6" (455)
C	7" (182)	8" (200)	9" (227)
D	1" (23)	1" (25)	1" (28)
E	2'2" (664)	2'5" (730)	2'9" (830)
F	4'7" (1391)	5'1" (1530)	5'9" (1739)
G	2'3" (682)	2'6" (750)	2'10" (852)
H	4'4" (1318)	4'9" (1450)	5'5" (1648)
I	6'9" (2045)	7'5" (2250)	8'5" (2557)
J	9'5" (2864)	10'4" (3150)	11'9" (3580)

Dimensions

Sensor head: OA-613 T



Controller: OC-913C T



Specifications

Model (System name)	PREMIER T
Power supply	12 to 24 VAC ±10% (50 / 60 Hz) 12 to 30 VDC
Power consumption	< 2.2 W (< 4 VA at AC) at 1 OA-613 T & 1 OC-913C T
Output *	CMOS. Relay voltage / 5 VDC
Test input	Opto coupler Voltage 5 to 30 VDC Current 6 mA Max. (30 VDC)
Output hold time	0.5 sec. fixed (Activate output) 0.5 sec. to 10 sec. (Safety output)
Response time	< 0.3 sec.
Operating temperature	-4 to 131°F (-20 to +55°C) without dew condensation
Operating humidity	< 80%
Accessories	1 Spec manual 1 Installation manual 2 Mounting screws 1 Mounting templates for OA-613 T 1 Communication cable 3'3" (1 m) 1 Wiring cable 2' (0.6 m) 1 Velcro tape 2 Wiring shells

Model (Sensor head)	OA-613 T
Cover color	Black
Mounting height	6'7" (2.0 m) to 8'2" (2.5 m)
Detection area	See DETECTION AREA
Detection method	Active infrared reflection **
Depth angle adjustment	1st row area ±5° 2nd & 3rd row area ±5°
IP rate	IP44
Weight	8.1 oz (230 g)

Model (Controller)	OC-913C T
Weight	2.3 oz (65 g)

* : Two type of outputs (Activate , Safety)

** : All rows have the presence detection.

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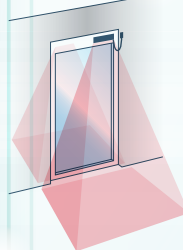
Active Infrared Door Sensor for Swing Door



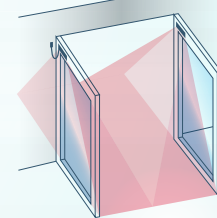
Pro-Swing ELITE T



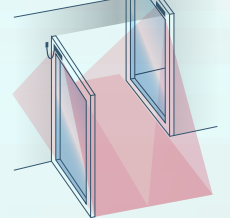
Single swing



Simultaneous pair



Double egress



FULL TIME PRESENCE DETECTION

The Optex Pro-Swing ELITE T is designed to detect moving or stationary people in the swing path of the door. The Optex Pro-Swing ELITE T stays active even when the door is in motion, providing safety all of the time!

No-Overhead Safety Sensor Required

The Pro-Swing ELITE T provides a full detection pattern that covers the entire swing of the doors in full open and full close position, there is no need for an overhead safety sensor.

Large and Adjustable Detection Area

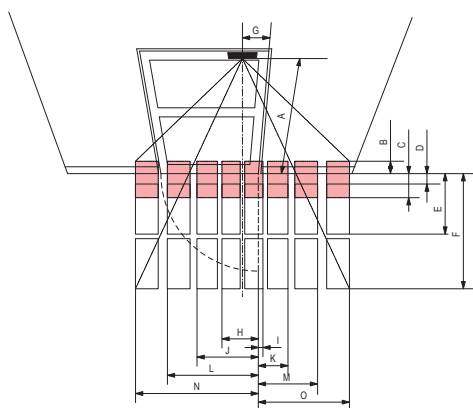
The Pro-Swing ELITE T has a large detection area which can detect beyond the normal area around the moving part of the door. The sensor creates a layer of awareness around the door to ensure safety.

Monitoring Capability

ELITE T has built-in "monitoring capability". ELITE T monitors all its critical functions and notifies compatible controls when an error occurs. Self-monitoring capability ensures a higher level of performance over the life of the sensor.

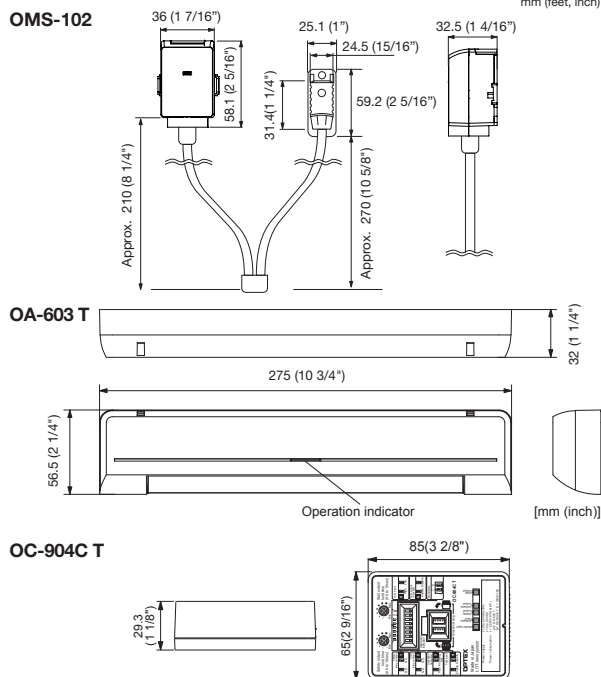
Complied with New ANSI standard

Detection Area



	mm (feet, inch)	mm (feet, inch)
A	2000 (6'7")	2300 (7'6")
B	186 (7")	214 (8")
C	360 (1'2")	414 (1'4")
D	152 (6")	175 (7")
E	840 (2'9")	966 (3'2")
F	1650 (5'5")	1898 (6'2")
G	252 (10")	
H	593 (1'11")	645 (2'1")
I	89 (3")	141 (6")
J	911 (3')	1010 (3'4")
K	407 (1'4")	506 (1'8")
L	1275 (4'2")	1428 (4'8")
M	770 (2'6")	924 (3')
N	1684 (5'6")	1900 (6'3")
O	1180 (3'10")	1395 (4'7")

Dimensions



Specifications

Model	OA-603 T
Cover color type	Black / Silver
Mounting height	2.0 m (6'7") to 2.5 m (8'2")
Detection area	See detection area
Detection method	Active infrared reflection (Presence detection type)
Detection angle	Threshold area ±5 (Inside & outside) Adjustments : Swing area ±5 (Inside & Outside)
Operation indicator	Green : Stand-by, Blinking red : threshold area detection active Red : Swing area detection active, Blinking Yellow : Learning
Current draw	120 mA Max
Response time	< 0.3 sec.
Operating temperature	-20 to +55°C (-4 to +131°F)
Weight	230 g (8.2 oz.)
Accessories	1 Sensor cable 0.2 m(7"), 9 Mounting screws, 1 Operation manual 3 Mounting template

Model	OC-904C T
Power supply	12 to 24 V AC / 12 to 30 V DC
Current draw	500 mA max.*
Activate output	Form A Relay 50 V, 0.3 A (resistance load)
Safety output	Form B Relay 50 V, 0.3 A (resistance load)
Stall output	Form B Relay 50 V, 0.3 A (resistance load)
Relay hold time	(Safety & Stall Output only) 0.5 to 10s
Response time	< 0.3 sec.
Operation indicator	Green: Standby, Red: door opening, Orange: lockout
Operating temperature	-20 to +55°C (-4 to +131°F)
Weight	62 g (2.2 oz.)
Accessories	1 Two sided tape, 2 T-tap connector,

*When a unit of the 2 OA-603 and 1 OC-904C used.

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European Subsidiary

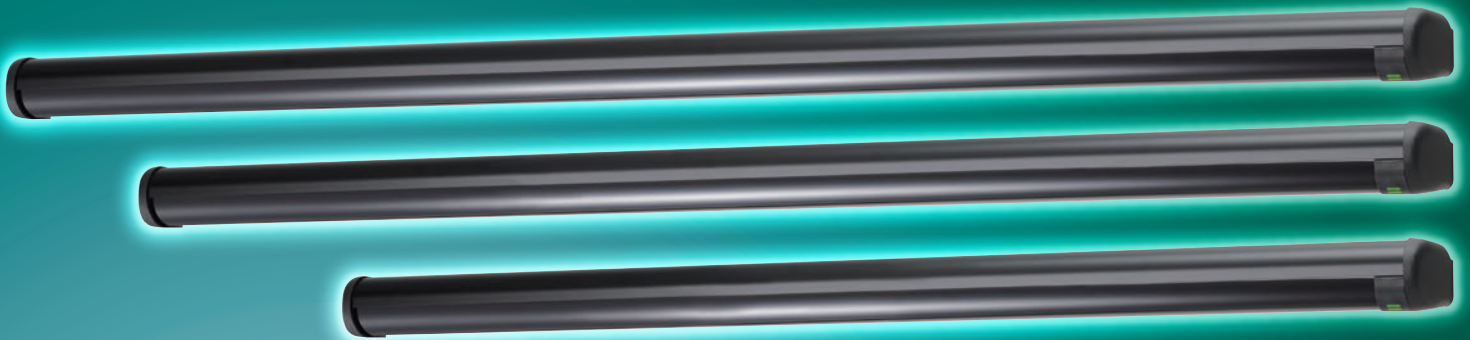
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 WEBSITE: www.optex.eu

Door Mounted Presence Sensors



OA-EDGE T series



Black

Silver



The OA-EDGE T series are based on the Optex Active Infrared Triangulations Technology. Due to the modular design, you can upgrade the safety level of the sensor by adding additional modules.



Master and Slave Modules

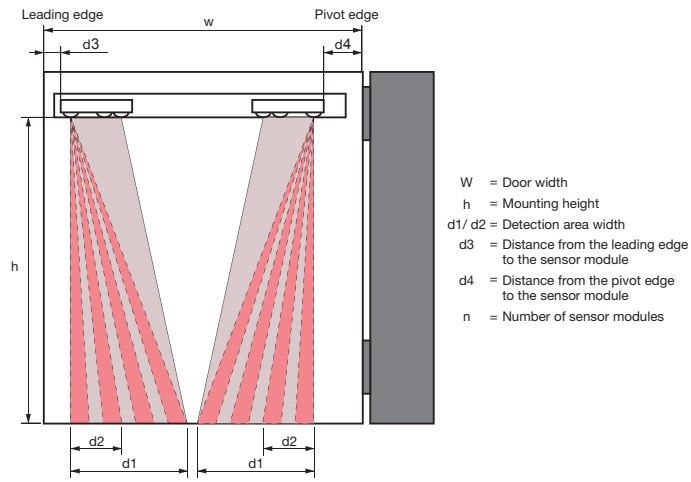
The sensor can be assembled using master and slave modules according to the required safety level and the width of the swing door. For a standard configuration of 2 sensors installed on door with a width of 900 mm only one master module is required, a maximum of 3 slave modules can be connected to this master module.

Monitoring Capability

OA-EDGE T has built-in "monitoring capability". OA-EDGE T monitors all its critical functions and notifies compatible controls when an error occurs. Self monitoring capability ensures a higher level of performance over the life of the sensor.



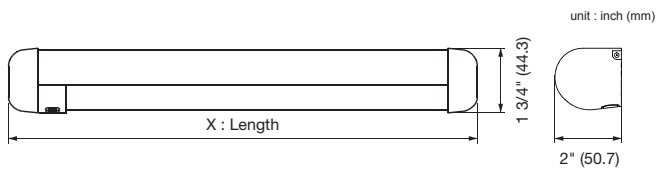
Detection Area



W				36" (914)		42" (1067)		3'11" (1219)	
h	d1	d2	d3	n	d4	n	d4	n	d4
5'11" (1800)	1'7" (480)	11" (280)	4" (102)*	2	4" (102)*	2	6" (152)	2	9" (229)
6'3" (1900)	1'8" (510)	11 7/16" (290)							
6'7" (2000)	1'9" (525)	11 13/16" (300)							
6'11" (2100)	1'10" (545)	12 3/16" (310)							
7'3" (2200)	1'10" (560)	12 5/8" (320)							
7'7" (2300)	1'11" (590)	13" (330)							
7'10" (2400)	1'12" (605)	13 3/8" (340)							
8'2" (2500)	2'1" (625)	13 3/4" (350)							

unit : inch (mm)

Dimensions



X : 34 1/2" (876) , 40" (1016) , 44" (1117)

Specifications

Model *	OA-EDGE 1 T / OA-EDGE 2 T
Extrusion color	Black / Silver
Mounting height	4'11" (1.5 m) to 9'10" (3.0 m)
Detection area	See DETECTION AREA
Detection method	Triangulation
Min. configuration	1 master module + 1 LED module
Max. configuration	4 sensor modules + 2 LED modules
Depth angle adjustment	0° to +25°
Power supply	12 to 24 VAC ±10% (50 /60 Hz) 12 to 30 VDC ±10%
Power consumption	<1.3 W (<2 V A at AC) at Min. configuration <3.5 W (<4.5 V A at AC) at Max. configuration
LED indicator	See chart below
Test input	Opto coupler 5 to 30 VDC Current / 6 mA Max.
Safety / Test output 1**	Form C relay
Safety / Test output 2**	Voltage / 42 VDC Current / 0.3 A Max. (Resistance load) Output : see INSTALLATION chapter 3.Wiring
Output hold time	Approx. 0.5 sec.
Response time	<75 ms sec.
Operating temperature	-4°F to 131°F (-20°C to +55°C)
Operating humidity	<80%
IP rate	IP54
Accessories	Silver self tap screw for extrusion ----- 2pcs Silver wood screw for extrusion ----- 2pcs Black small screw for endcap ----- 4pcs Black large screw for wire shroud cover ---- 2pcs Wire shroud ----- 1pcs Wire shroud cover ----- 1pcs Power supply cable ----- 1pcs Communication cable ----- Refer to matrix Manual ----- 1pcs

unit : inch (mm)

Model	Sensor length	Cable length			
		4" (105)	10" (250)	19" (480)	35" (900)
OA-EDGE1 T	34.5	-	1pcs	1pcs	-
	40	-	1pcs	-	1pcs
	44	-	1pcs	-	1pcs
OA-EDGE2 T	34.5	1pc s	1pcs	1pcs	-
	40	1pc s	1pcs	1pcs	-
	44	1pc s	1pcs	1pcs	-

* : OA-EDGE1 T have 1 sensor module (Master only). OA-EDGE2 T have 2 sensor modules (Master + Slave).
** : There are two types of output. (Reactivate & Stall)

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WEBSITE: www.optex.eu

Active Infrared Door Sensor for Industrial Use

OA-6000 series

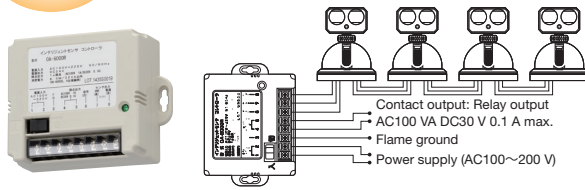


Activation and Safety infrared sensor for Roll-up door applications.

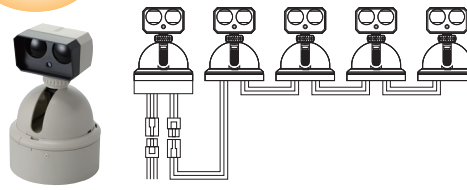
Unique design enable you to install at lower position when you have pain to climb up to header all the way.



Controller unit OA-6000R

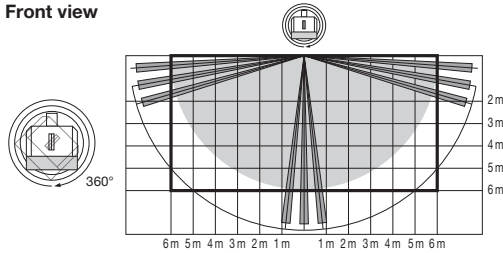


Sensor / Controller All in one unit OA-6000T

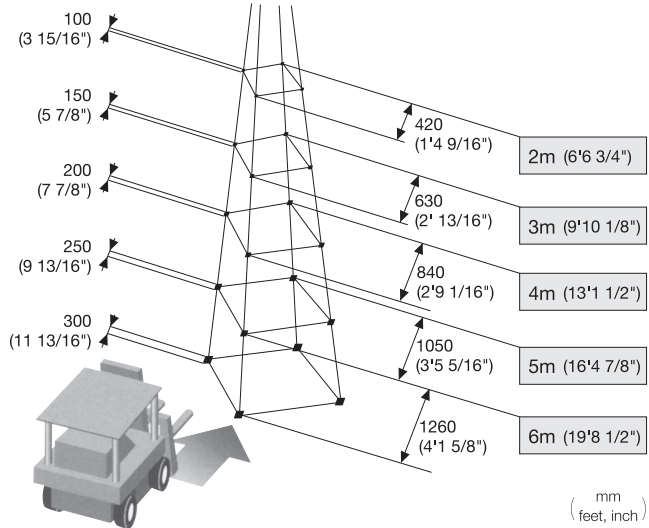
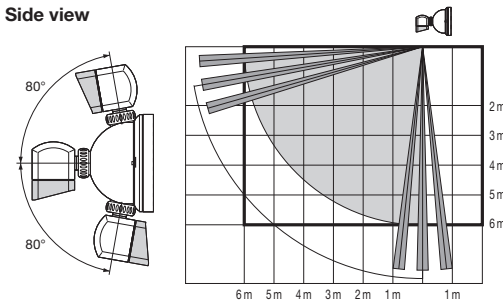


Detection Area

Front view

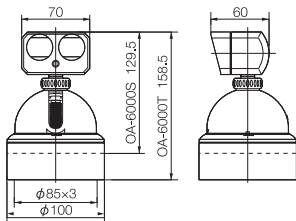


Side view

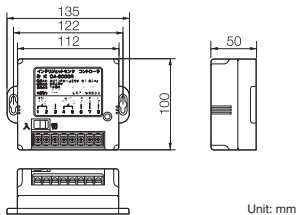


Dimensions

OA-6000S OA-6000T



OA-6000R



Unit: mm

Specifications

Model	OA-6000S	OA-6000T	Model	OA-6000R
Detection range	2 to 6 m		Power supply	100 V to 220 V AC
Detection method	Active infrared reflection method		Power consumption	< 25 VA (100V AC) < 32 VA (200 V AC)
Detection range (vertical)	-80° to +80° (Deep/Shallow)		Operation indicator	LED ON: Stand-by LED OFF: Detection
Detection range (right & left)	360°		Output	"Form A" relay 100 VAC 1 A Max. 30 VDC 0.1 A Max.
Power supply	24 VDC		Relay hold time	Approx. 0.5 sec.
Power consumption	< 65 mA (24 VDC)	< 105 mA (24 VDC)	Operating temperature	-20 to +55°C
Operation indicator	LED ON: Stand-by LED OFF: Detection LED Blink: Infinite detection		Weight	240 g
Output	NPN 40 mA Max. / 24 VDC	"Form A" relay AC100 V 1 A DC30 V 0.1 A Max.	Accessories	Mounting screw X 1set Operation manual X 1 Mounting template X 1
Relay hold time	Approx. 0.5 sec.			
Operating temperature	-20 to +55°C			
Weight	200 g	290 g		
Accessories	Mounting screw X 1set Operation manual X 1 Mounting template X 1			

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OA-4500

Active infrared industrial door sensor



QUALITÉ SUPERIEURE
ENTWICKELUNG

LANG

MEDIO AMBIENTE

CARE OF THE LOWEST
FAILURE RATE IN THE MARKET

The Optex OA-4500 is the new active infrared industrial door sensor standard for use on doors up to a mounting height of 4,5 meter. It was developed as a combination sensor for safety and activation; the active infrared presence detection protects against early closing of the door while the activation area activates the door when entering the detection area.

This sensor meets market requirements in a variety of industrial door applications.

OA-4500

Active infrared door sensor

COMBINATION

The Optex OA-4500 is based on active infrared technique, combining activation and safety into one sensor. By using the unique Optex presence detection technique the OA-4500 provides maximum safety around the threshold of an industrial door and offers, at the same time, a large motion detection area for door activation.

SAFETY

The active infrared presence detection of the OA-4500 can be set very accurately and can be moved 6° towards or away from the door. The sensor detects a person or object and holds the door open as long as they are in or near the threshold area, even if they stop or pause.

MOTION DETECTION

The large detection area provides fast detection for any traffic, including trucks, approaching from any angle. The sensors enhanced pattern depth enables it to detect people and objects farther away and allows the door to open conveniently for them. The presence and motion detection areas can be adjusted independently.

EASY ADJUSTMENT

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

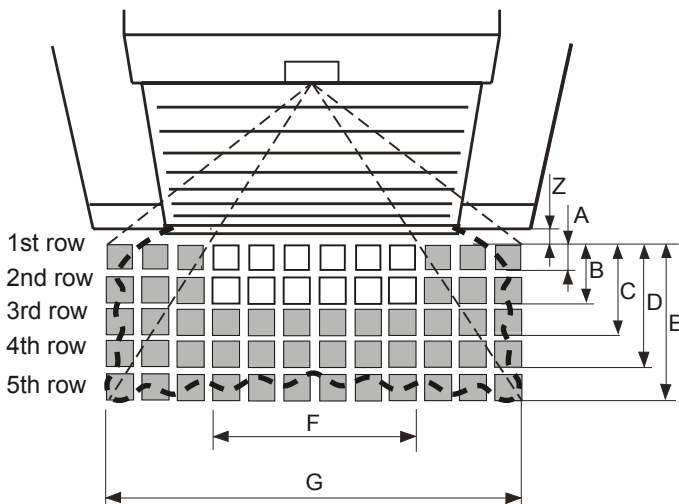
QUALITY

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

SPECIFICATIONS

Model	OA-4500
Colour	Black / silver
Mounting height	2.5 m (8'2") to 4.5 m (14'9")
Detection area	See detection area
Detection method	Active infrared reflection method (all presence detection)
Depth adjustment	4th and 5th rows: +26° to +44° 1st to 3rd rows -6° to +6°
Power supply	12 to 24V AC/DC
Power consumption	<100mA (at DC24V)
Operation indicator	Green: stand-by Red: 1st row detection Orange: 2nd to 5th rows detection
Output	1st & 2nd rows N.C./N.O. selectable 50V0.3A max. (resistance load) 3rd to 5th rows N.C./N.O. selectable 50V0.3A max. (resistance load)
Relay hold time	Approx. 0.5 sec.
Operating temperature	-20°C - +55°C (-4°F - +131°F)
Weight	320 g
Accessories	Operation manual, mounting screws, mounting template, area adjustment tool, cable 4 m

DETECTION AREA



Mounting height	3,000 (9'10")	3,500 (11'6")	4,000 (13'2")	4,500 (14'9")
Area depth A	200 (8")	230 (9")	260 (10")	290 (11")
Area depth B	580 (1'11")	670 (2'22")	760 (2'6")	850 (2'9")
Area depth C	1,100 (3'7")	1,300 (4'3")	1,480 (4'11")	1,660 (5'5")
Area depth D	1,850 (6'1")	2,160 (7'1")	2,460 (8'1")	2,760 (9'1")
Area depth E	2,600 (8'6")	3,030 (9'11")	3,460 (11'4")	3,890 (12'9")
Areawidth F	1,810 (5'11")	2,110 (6'11")	2,400 (7'11")	2,700 (8'10")
Area width G	3,790 (12'5")	4,420 (14'6")	5,050 (16'7")	5,680 (18'8")
Area depth Z	300 (12")	350 (1'2")	400 (1'4")	450 (1'6")

Active Infrared Door Sensor for Industrial Use

OA-6500S T

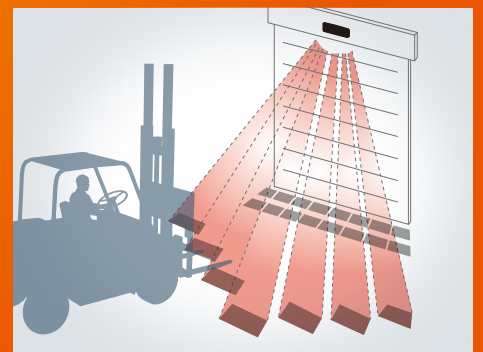


Black



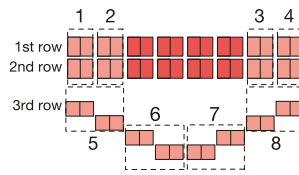
Up to 21'4" / 6.5 m mounting height

The OA-6500S T is developed as a combination sensor for safety and activation, the active infrared presence detection protects against early closing of the door while the activation area activates the door when entering the detection area.



Motion Detection

The large detection area provides fast detection for any traffic, including trucks, approaching from any angle. The sensor's enhanced pattern depth enables it to detect objects farther away and allows the door to open conveniently. The presence and motion detection areas can be adjusted independently.



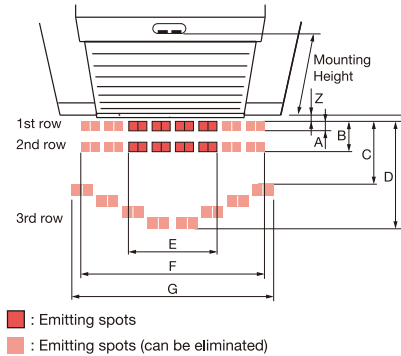
Monitoring Capability

OA-6500S T has built-in "monitoring capability". OA-6500S T monitors all its critical functions and notifies compatible controls when an error occurs. Self-monitoring capability ensures a higher level of performance over the life of the sensor.

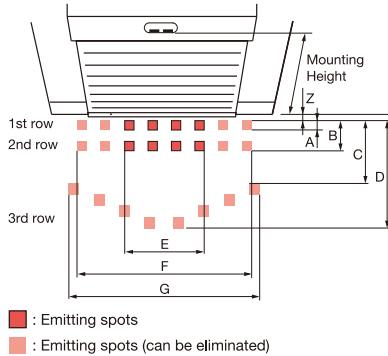
Complied with New ANSI standard

Detection Area

Standard window



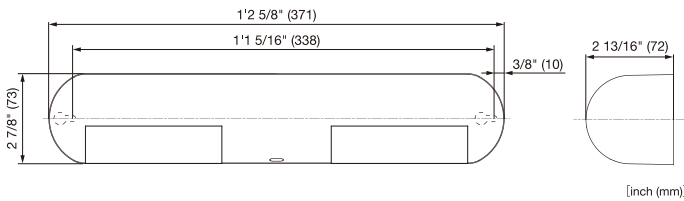
High mount window



[feet, inch (m)]

Mounting height	Standard window			High mount window	
	8'2" (2.50)	11'6" (3.50)	14'9" (4.50)	18'1" (5.50)	21'4" (6.50)
A Area depth	6" (0.15)	8" (0.21)	11" (0.28)	11" (0.34)	14" (0.40)
B Area depth	1'10" (0.56)	2'7" (0.79)	3'4" (1.01)	4'1" (1.24)	4'10" (1.47)
C Area depth	2'3" (0.68)	3'2" (0.96)	4'1" (1.24)	4'11" (1.51)	5'11" (1.79)
D Area depth	4'5" (1.34)	6'2" (1.87)	7'11" (2.41)	9'8" (2.94)	11'5" (3.48)
E Area width	5'1" (1.53)	7'1" (2.15)	9'1" (2.76)	9'2" (2.79)	10'10" (3.30)
F Area width	11'11" (3.64)	16'9" (5.10)	21'7" (6.56)	23'9" (7.23)	28'1" (8.55)
G Area width	12'7" (3.84)	17'8" (5.38)	22'8" (6.91)	25' (7.62)	29'7" (9.01)
Z Area depth	6" (0.15)	9" (0.22)	11" (0.28)	11" (0.34)	14" (0.41)

Dimensions



Specifications

Model	OA-6500S T
Colour	Black
Mounting height	8'2" (2.5) to 21'4" (6.5 m)
Detection area	See Detection Area
Detection method	Active infrared reflection method (All presence detection)
Depth adjustment	1st and 2nd rows : -15 to +5° 3rd row: +30 to +50°
Power supply	12 to 24 V AC ±10% (50 / 60 Hz) / 12 to 30 V DC ±10%
Power consumption	< 2.5 W (< 3.5 VA at AC)
Operation indicator	Green / Stand-by Red / 1st row detection Orange / 2nd and 3rd rows detection
Test input	Opto coupler Voltage 5 to 30 V DC Current 6 mA Max. (30 V DC)
Activation output	3rd rows detect N.C. / N.O. selectable 50 V 0.3 A max. (Resistance load)
Safety output	1st and 2nd row detects N.C. / N.O. selectable 50 V 0.3 A max. (Resistance load)
Output hold time	Approx. 0.5 sec.
Operating temperature	-4 to 131°F (-20 to +55°C)
Weight	21.2 oz (600 g)
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 High mount window 1 Cable 13'2" (4 m) 1 Protection sticker

Option

Rain cover XXL (RH-4)



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