



Swing Door Door-Mount Sensor

PRO SWING ELITE

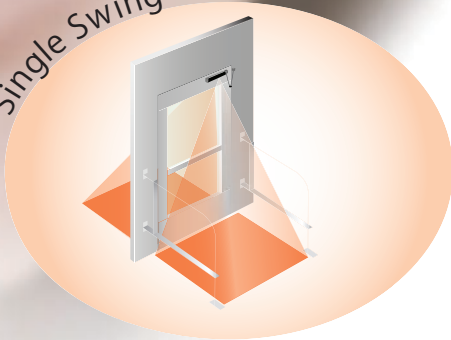


Elite Safety Door-Mounted Easy Installation
Maintenance Free Infrared Presence Detection
Wide Area No Header Mount Needed Always On

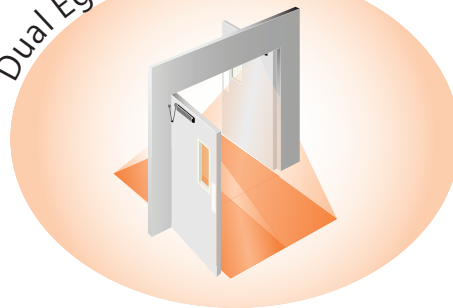
The Optex Pro-Swing Elite is designed to detect moving or stationary people in the swing path of the door. The Optex Pro-Swing Elite stays active even when the door is in motion, providing safety all of the time!

Applications

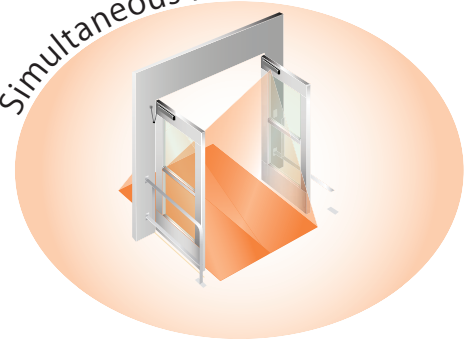
Single Swing



Dual Egress (Hospitals)



Simultaneous Pair



Advantages

- Full-time Presence Detection - The advantage of the door-mounted Pro-Swing Elite is that the presence detection stays on even when the door is in motion. The Pro-Swing Elite can detect a person or object at any point in the doors' swing path, providing complete safety and convenience for swinging doors.
- Large and adjustable Detection Area ensures safety - The Pro-Swing Elite 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.
- No-Overhead Safety Sensor Required - since the Pro-Swing Elite 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.
- Knowing Act Doors -This system satisfies the requirement for secondary activation sensor. No additional activation sensor required.

Safety

The presence detection feature assures a safety signal is present at the door control in the event a person or an object is within the swing-path of an automatic swinging door. When a person or object is detected, the sensor will slow, stop or reverse the door depending upon the situation.

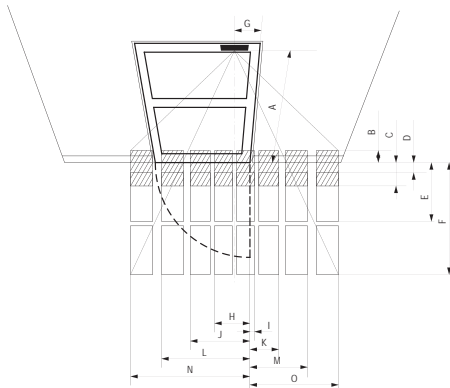
Design

The modern style of the Pro-Swing Elite will blend beautifully for use in any setting.

All Conditions

Variable sensitivity adjustments make this sensor suitable for every application including extreme weather conditions.

Sensing Area

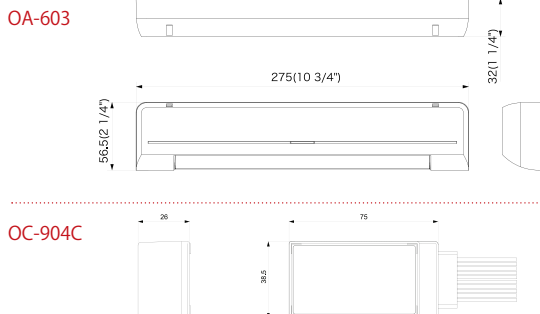


This illustration depicts the area created by the infrared technology. Actual detection may vary depending upon environmental conditions.

Sensing area chart

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")

Outer Dimensions



Swing Door Elite System Specifications

Pro-Swing Elite Sensor	<p>Model: OA-603</p> <p>Cover Color: Black, Silver</p> <p>Mounting Height: 2.0m (6'7") to 2.5m (8'2")</p> <p>Detection Area: See chart</p> <p>Detection Method: Active Infrared Reflection (Presence Detection Type)</p> <p>Detection Angle: Threshold Area ± 5 (Inside & Outside); Swing Area ± 5 (Inside & Outside)</p> <p>Adjustments: Green: Standby</p> <p>Operation Indicator: Blinking Red: Threshold Area Detection Active Red: Swing Area Detection Active Blinking Yellow: Learning</p> <p>Current Draw: 120mA Max</p> <p>Response Time: <0.3 seconds</p> <p>Operating Temp.: -20°C to +55°C (-4°F to +131°F)</p> <p>Weight: 230g (8.2oz.)</p>	Pro-Swing Elite Controller	<p>Model: OC-904C</p> <p>Power Supply: 12-24V AC, 12-30V DC</p> <p>Current Draw: 500mA max.*</p> <p>Output:</p> <ul style="list-style-type: none"> - Activate Output: Form A Relay 50V, 0.1A (Resistance Load) - Safety Output: Form C Relay 50V, 0.1A (Resistance Load) - Stall Output: Form C Relay 50V, 0.1A (Resistance Load) <p>Relay Hold Time (Safety Output Only): 0.5 to 10s</p> <p>Response Time: <0.3 seconds</p> <p>Operation Indicator: Green: Standby Red: Door Opening Orange: Lockout</p> <p>Operating Temp.: -20°C - +55°C (-4°F to +131°F)</p> <p>Weight: 50g (1.8oz.)</p> <p>* When a unit of the OA-603 and OC-904C used.</p>
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OPTEX CO.,LTD.

5-8-12 Ogoto Otsu, 520-0101 Japan
 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
 WEBSITE : www.optex.co.jp



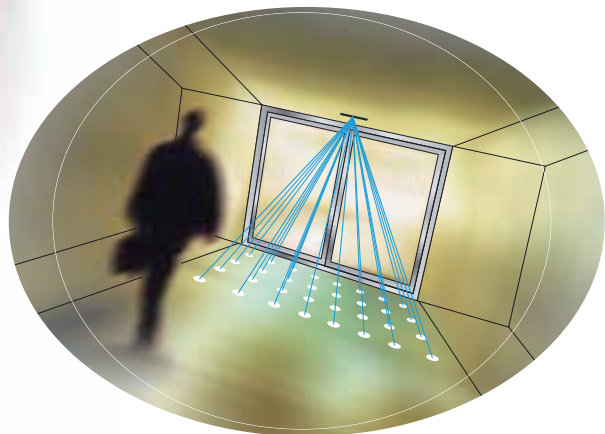
Active Infrared Door Sensor

Mirage



Safety Reliable Combination Sensor Easy installation Sensitivity
 Environmental immunity InFINITY presence detection QUALITY BUILT IN Flexible DESIGN

The Optex Mirage is the optimal choice as an active infrared recessed mounted sensor. The sensor is designed to be installed in the header of the door operator or as a built in ceiling mount sensor. The Optex Mirage 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.



Easy installation

The Optex Mirage is simple to install. All the settings are mechanically adjustable with dipswitch and levers. The smart design makes that the engineer can easily reach the sensor in case adjustment of a setting is necessary.

Safety

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. Of course the Optex Mirage can also be used as presence detection sensor only, for example as a rear edge safety sensor.

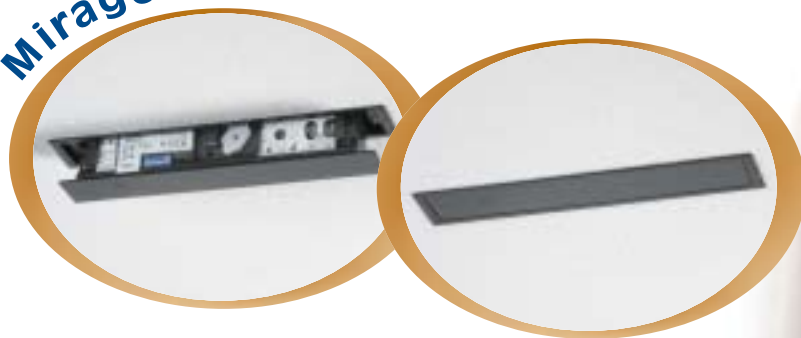
Design

The Optex Mirage is designed for installation in the header of the door operator or as a ceiling mount sensor. Due to its recessed mounted design and the 2 rows of presence detection, this sensor is an elegant and safe solution for installation in the ceiling of curved doors.

All conditions

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

Mirage

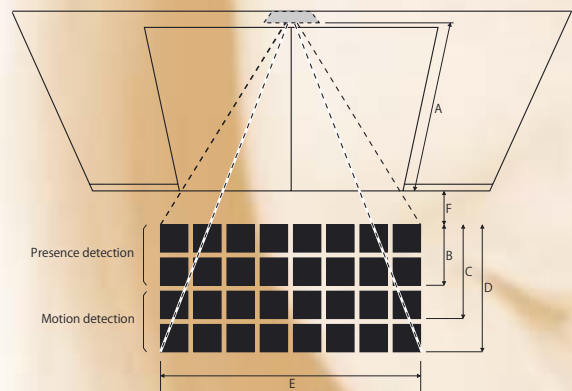


Active Infrared DoorSensor

Specifications

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

Detection area chart



Mounting height A	2.20	2.50	2.70	3.00
Area depth B (presence detection)	0.47	0.53	0.57	0.64
Area depth C (presence and motion detection)	0.94	1.07	1.15	1.28
Area depth D (presence and motion detection)	1.65	1.88	2.03	2.25
Area width E	2.28	2.59	2.80	3.11
Distance to mounting surface F	0.23	0.26	0.28	0.31

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

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 WEBSITE : www.optex.co.jp



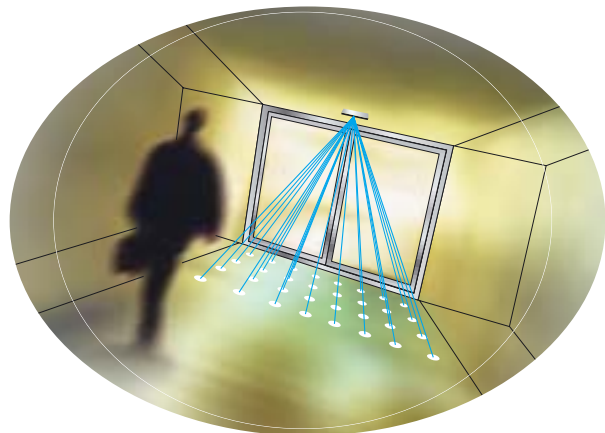
Active Infrared Door Sensor

OA-202C



Safety Reliable Combination Sensor **Sensitivity**
Multifunctional **flexible** EASY INSTALLATION
Activation **presence detection**
Large detection area Active Infrared QUALITY

The large detection area of the Optex OA-202C is preferred for activation in retail and commercial automatic door applications. It combines motion and presence detection to provide maximum reliability and safety.



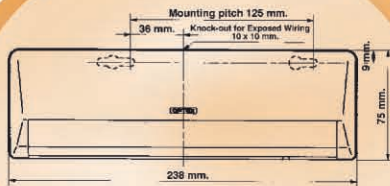
Large detection area

The Optex OA-202C is optimal for supermarkets, airports and retail stores because it detects objects and people a safe distance from the door, even at floor level. Meets or exceeds applicable ANSI and EU standards.

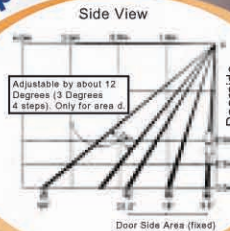
Safety

The presence zone near the threshold of the door ensures safety. The OA-202C holds open the door as long as a person or object is in the threshold area, even if they stop or pause. The presence timer can be increased for added protection.

Outer dimensions



Area depth



Easy Installation

The OA-202C is simple to install and adjust. All of the settings are made easily using levers or by masking the optical lenses, to customize the pattern for any application.

Design

The OA-202C combines both activation and safety into one compact housing, which simplifies installation. It is available in two colors: Black and Silver.

Quality

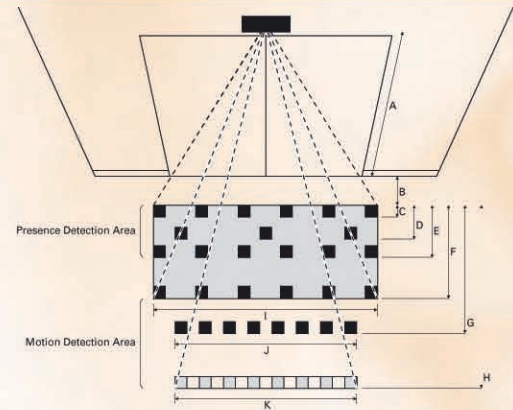
Optex automatic door sensors guarantee premium performance and include a 3-year full replacement warranty.

Active Infrared Door Sensor

Specifications

Model	OA-202C
Mounting Height	max. 3.0m (9'10")
Detection Area Adjustments	Depth and width can be adjusted by masking seal Depth angle 0° to 12° (3x4 steps). Only front row
Detection Technique	Active Infrared (Near Infrared Reflection)
Power Supply	12 - 24V AC/DC
Current Draw	150mA max.
Power/Operating Indicator	LED ON: Standby LED OFF: Detection
Output Contact	Form C Relay 50V, 0.3A (Resistance Load)
Relay Hold Time	Approx. 0.5s
Operating Temperature	-20°C - +55° (-4°F - +131°F)
Dimensions	238 x 75 x 50mm (w x h x d)
Weight	320g (11.3oz)
Accessories	2 m Connection Cable with Plug 2 Mounting Screws Mounting Template Area Mask Seal
Available Colors	Silver (OA-202CS), Black (OA-202CBL) and White (OA-202CW)

Detection area chart



	2.20	2.50	2.70	3.00
Mounting Height A	2.20	2.50	2.70	3.00
Distance to mounting surface B	0.10	0.11	0.12	0.13
Area Depth C	0.07	0.08	0.09	0.10
Area Depth D	0.22	0.25	0.27	0.29
Area Depth E	0.70	0.80	0.90	1.00
Area Depth F	1.30	1.50	1.70	1.80
Area Depth G	1.80	2.00	2.10	2.40
Area Depth H	2.60	3.00	3.20	3.60
Area Width I	2.00	2.30	2.40	2.70
Area Width J	1.40	1.60	1.70	1.90
Area Width K	1.70	2.00	2.10	2.40

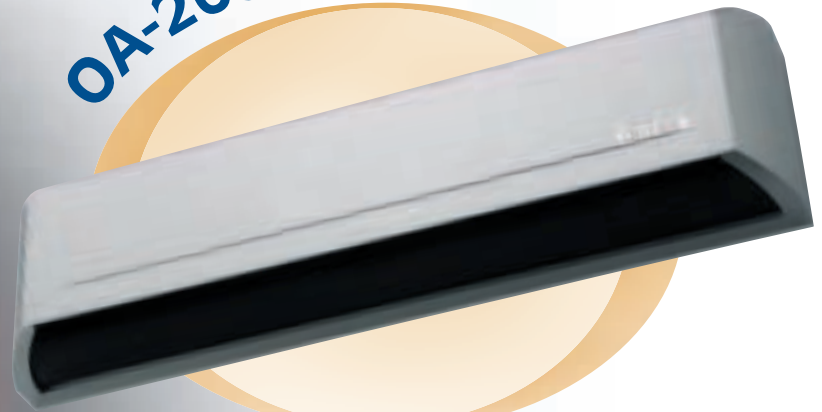
OPTEX CO.,LTD.

5-8-12 ogoto Otsu, 520-0101 Japan
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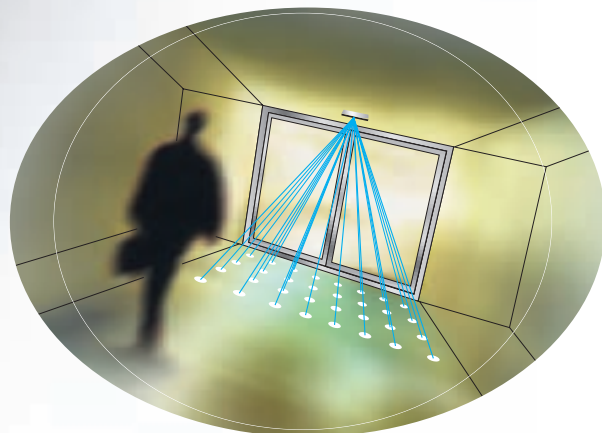
Active Infrared Door Sensor

OA-203C



Safety ^{Reliable} Infrared presence Sensitivity
Environmental immunity detection ^{DESIGN}
Easy installation ^{QUALITY}

The Optex OA-203C is the optimal choice for both safety and activation on all types of automatic doors. It combines easily adjustable settings with a slim design, providing maximum safety in a wide array of applications.



Easy installation

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

Safety

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.

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 weather conditions.

OA-203CS



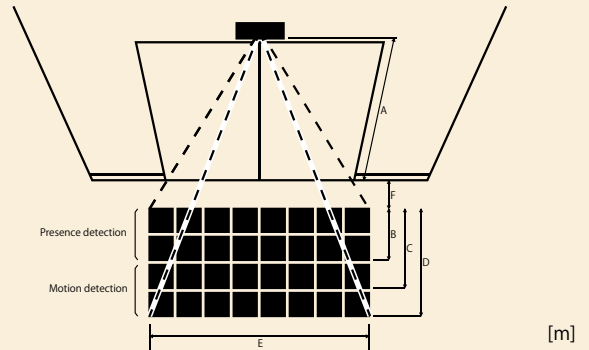
OA-203CBL



Active infrared Door Sensor

Specifications	Model
Mounting height	OA-203C max. 3.0 m (9'10")
Detection area adjustments	Eliminate rows B, C, or D (dipswitch 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 - 30V AC/DC
Power consumption	160mA max. (at 12V AC)
Power/Operating indicator	Green: Standby Red: Presence detection Orange: Motion detection
Output contact	Form C relay 50V, 0.3A (resistance load)
Relay hold time	Approx. 0.5s
Response time	<0.3s
Operating temperature	-20° C - +55° C
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) and white (OA-203CW)

Detection area chart



Mounting height A	2.20	2.50	2.70	3.00
Area depth B	0.31	0.35	0.38	0.41
Area depth C	0.75	0.85	0.92	1.02
Area depth D	1.30	1.48	1.59	1.77
Area width E	2.30	2.60	2.80	3.10
Distance to mounting surface F	0.18	0.20	0.22	0.25

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

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Activation & Safety Sensor “For industrial doors”

Door Category

- Sliding
- Swing
- industrial
- Security

Sensor Type

- Activation
- Safety
- Access Control



ACTIVE INFRARED SENSOR

OA-6000

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.

OA-6000

Long range detection area

The OPTEX OA-6000 provides a long range detection area even from high mounting position.

Stable operation

The OPTEX OA-6000 will not activate shutters by too much wide detection area.

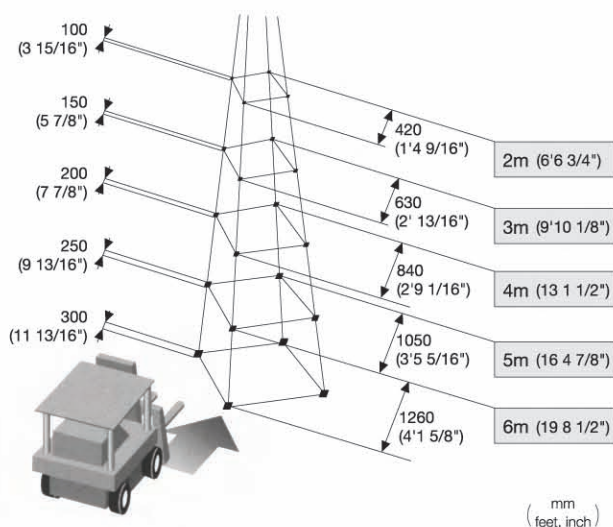
High mounting position with sufficient sensitivity

Stable detection performance at high mounted position.

Flexibility

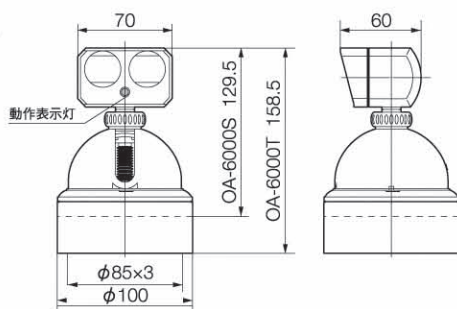
Detection area can be adjusted 160° vertically and 360° horizontally.

Detection area chart

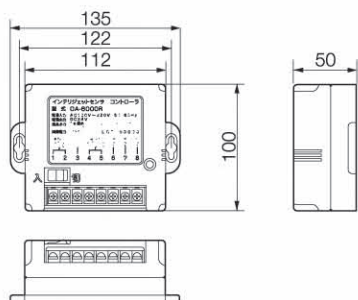


Dimensions

OA-6000S
OA-6000T



OA-6000R



unit : mm

Specifications

Model	OA-6000S	OA-6000T
Detection Range	2 ~ 6m	
Detection Method	Active Infrared Reflection Method	
Detection Range (vertical)	-80° ~ +80° (Deep / Shallow)	
Detection Range (right & left)	360°	
Power Supply	24V DC	
Power Consumption	< 65mA (24V DC)	< 105mA (24V DC)
Operation Indicator	LED ON : Stand-by LED OFF : Detection LED Blink : Infinite Detection	
Output	NPN Max. 40mA/ DC24V	"Form A" relay AC100V 1A DC30V 0.1A Max.
Relay Hold Time	Approx. 0.5sec.	
Operating Temperature	-20°C to +55°C	
Weight	200g	290g
Accessories	Mounting Screw × 1set, Operation Manual × 1 Mounting Template × 1	

Model	OA-6000R
Power Supply	100V to 220V AC
Power Consumption	< 25VA (100V AC) < 32VA (200V AC)
Operation Indicator	LED ON : Power ON LED OFF : Power OFF
Output	"Form A" relay AC100V 1A DC30V 0.1A Max.
Relay Hold Time	Approx. 0.5sec.
Operating Temperature	-20°C to +55°C
Weight	240g
Accessories	Mounting Screw × 1set, Operation Manual × 1 Mounting Template × 1

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5-8-12 ogoto Otsu, 520-0101 Japan
TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
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Assures Superior Reliability & Safety

PRO SWING

OA-601C

Active Infrared Presence Sensor



PROSWING OA-601C was developed to assure the presence of a safety signal at the door control in the event a person or an object is within the swing-zone of an automatic swinging door.

PROSWING OA-601C is ideally suited for any brand of automatic swinging door. The area presence pattern can be precisely adjusted for any size (single or pair of doors) by installing one of 4 prism lens sets (included). PROSWING OA-601C utilizes the same advanced active infrared technology found in our PROSAFE products. PROSWING combines high reliability and safety with superior presence detection technology.



OA-601CW(White) OA-601CS(Silver) OA-601CBL(Black)

FEATURES

■ Prism Lenses

OPTEX provides 4 unique pair of prism lenses to conform the presence pattern to a precise fit for any size door (single or pair). Eliminates guesswork of adjusting and tweaking sensitivity to fit the area.

The presence detection pattern which is adjusted by prism lenses meets ANSI 156.10 standards.

■ Lockout Relay Operation

The PROSWING OA-601C operates in conjunction with a lockout relay and an infrared beam to complete the safety system (lockout relay is active during closing cycle only).

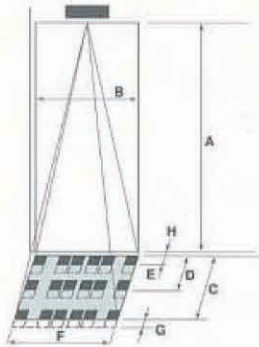
■ Presence Detection Area = Safety

PROSWING OA-601C's detection area consists of an 18-zone presence detector. Capable of sensing moving or stationary targets, the presence detection feature assures a safety signal is present at the door control should a person or an object be within the swing-zone. The presence detection timer can be preset to 2, 60 or 180 seconds of duration.

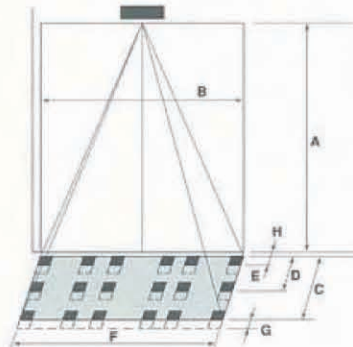
■ **Attractive Housing Design** ; is available in three color choices (black, silver or white).

AREA CHART

■ Single Door



■ Pair of Door

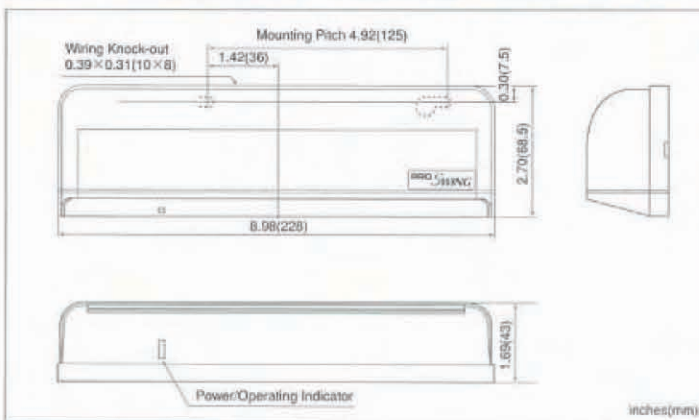


		ft(mm)			
A	Mounting Height	7.2(2190)		7.5(2290)	
	Correct Prism	▲	♥	▲	♥
B	Door Width	42 inch	36 inch	42 inch	36 inch
C	Area Depth	3.94(1200)		4.1(1250)	
D	Area Depth	1.97(600)		2.03(620)	
E	Area Depth	0.23(70)		0.24(73)	
F	Area Width	3.22(980)	2.72(830)	3.35(1020)	2.85(870)
G	Adjustable Range	0.72(220)		0.75(230)	
H	Distance from Mounting Surface	0.30(90)		0.31(93)	

		ft(mm)			
A	Mounting Height	7.2(2190)		7.5(2290)	
	Correct Prism	●	■	●	■
B	Door Width	42 inch pair	36 inch pair	42 inch pair	36 inch pair
C	Area Depth	3.94(1200)		4.1(1250)	
D	Area Depth	1.97(600)		2.03(620)	
E	Area Depth	0.23(70)		0.24(73)	
F	Area Width	6.36(1940)	5.38(1640)	6.53(1990)	5.54(1690)
G	Adjustable Range	0.72(220)		0.75(230)	
H	Distance from Mounting Surface	0.30(90)		0.31(93)	

※ Recommend to mount the unit at 7.2 feet height to meet ANSI 156.10 standards.

OUTER DIMENSIONS



SPECIFICATIONS

Model	OA-601CS / OA-601CBL / OA-601CW
Mounting Height	8.86ft (2.70 m) Max.
Detection Area	See the chart
Detection Method	Near Infrared Reflection Method
Power Input	12 ~ 24V AC/DC
Current Draw	120mA Max. (at 12V DC)
Power/Operation Indicator	LED ON when stand by LED OFF when detecting
Output Contact	Form C Relay 50V 0.3A (Resistance Load)
Output Hold	0.5 sec. Delay
Operation Temperature	-20°C ~ +55°C (-4°F ~ +131°F)
Weight	260g (9.2oz)
Accessories	2m Wire with Plug, 2 Mounting Screws, Mounting Template, 4 Pair Prism Lenses.

※ Specifications subject to change without prior notice.

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

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OPTEX

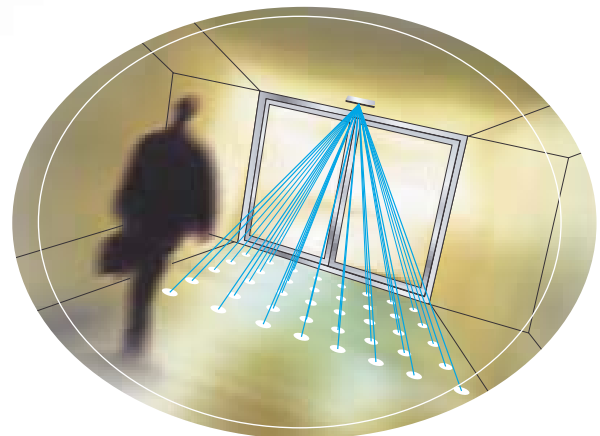
Ceiling-mount Door Sensor

OA-70C



Safety Reliable Quality **Flexible**
 Large pattern CONCEALED
 Ceiling mount sensor Presence detection
 Easy adjustment ACTIVATION

The Optex OA-70C 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

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 infinity. Its large detection area can be set very precisely and easily by dipswitches and levers to line up with doors and other sensor patterns, providing maximum safety.

Ceiling-mount installation

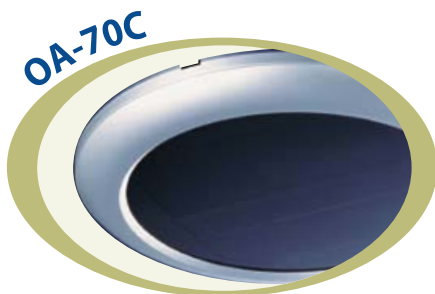
The Optex OA-70C is perfect for installation in areas where attractive appearance is important. The sensor can be mounted up to 4m high, making it vandalism resistant.

Slim design

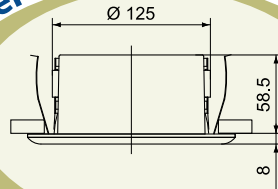
Discreet ceiling-mount design easily blends with any décor. Equipped with silver recess mount cover.

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.



Outer dimensions



Ceiling mount Door Sensor

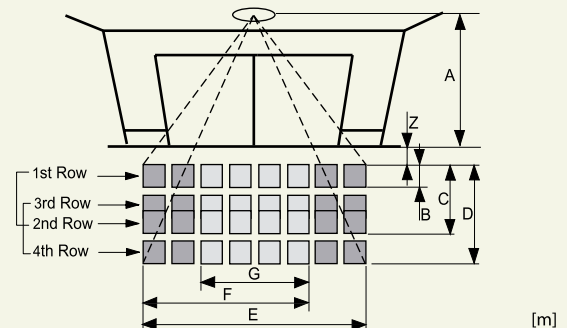
Specifications

Model	OA-70C
Mounting height	2.0 m - 4.0 m
Detection area adjustments	Depth -6° to 8° Width -10° to +10°
Detection method	Active infrared Reflection
Power supply	12 - 24V AC 12 - 30V DC
Power consumption	<4VA, <200mA (at 12V DC)
LED Operating indicator	Green: Stand-by Red: 1st Row Detection Orange: 2nd-4th Row Detection
Output contact	"Form C" relay 50V, 0.3A max. (resistance load)
Relay hold time	Approx. 0.5s
Response time	<0.3s
Operating temperature	-20°C - +55°C
Outer dimensions	∅ 155 mm, 66.5 mm (h)
Weight	340g
Accessories	3 m Connection cable Mounting template
Optional accessory	Ivory surface mount cover

The recommended mounting position is 300mm away from the door.

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

Detection area chart



Mounting height A	2.20	2.50	3.00	4.00
Area Depth B	0.39	0.44	0.53	0.71
Area Depth C	0.77	0.86	1.03	1.38
Area Depth D	0.96	1.09	1.31	1.75
Area Width E	2.20	2.52	3.03	4.04
Area Width F	1.78	2.03	2.44	3.25
Area Width G	1.32	1.50	1.80	2.40
Distance to the door Z	0.16	0.10	0.06	-0.02*

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

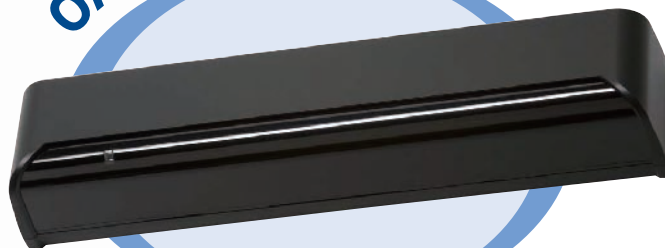
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5-8-12 ogo to Otsu, 520-0101 Japan
 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
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Active infrared Door Sensor

OA-Axis series



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

The Optex OA-Axis series is the new active infrared door sensor standard for use on automatic sliding doors. The OA-Axis series is developed as a combination sensor for threshold safety and activation. The OA-Axis T is in compliance with the latest European and local regulations as prEN12650 and DIN18650, tested and approved by the German test organisation TÜV. Due to its variety in output options the OA-Axis series meets the requirements in various markets.



Combination

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

Safety

The active infrared presence detection of the OA-Axis series can be set very accurately and can be moved 6° towards or away from the door. 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 or near the threshold area, even if they stop or pause. The Optex OA-Axis T is tested and approved by the German test organization TÜV and in compliance with the German DIN 18650 and the preliminary European Norm prEn 12650.

Motion detection

The large detection area provides fast detection for any traffic, including trolleys, approaching from any angle. The sensor's 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 area's can be adjusted independently.

Variety

By offering different types of output contacts the OA-Axis series meets the requirements and local standards in many different markets.

OA-Axis I: relay output for activation and safety.

OA-Axis II: one relay for safety and a second relay for motion/activation

OA-Axis T: one relay for motion/activation and an Opto coupler (NPN) in/output for safety.

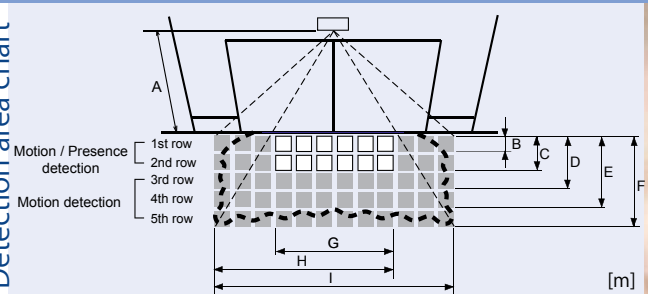
Easy adjustment

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.

Active infrared Door Sensor

Specifications	Model
Mounting height	OA-Axis I* / OA-Axis II* / OA-Axis T
Detection angle adjustments	up to 3.5m (I/II) / 3.0m (T)
Detection method	1st - 3rd rows -6° / +6°
Power supply	4th and 5th rows +26° / +44°
Power consumption	Active infrared reflection
LED Operating indicator	12 - 24V AC ±10% (50/60Hz)
Test input (T-version)	12 - 30V DC ±10%
Activation output (T-version)	OA-Axis I: < 3VA
Safety/Test output (T-version)	OA-Axis II: < 4VA
Voltage	OA-Axis T: < 4VA
Dark current	See installation manuals
Output (OA-Axis I)	Opto coupler, Voltage 5 to 30 VDC
Output (OA-Axis II)	Current 6mA Max. (30VDC)
Output hold time	Form A relay 50V 0.3A max.
Response time	Opto coupler (NPN),
Operating temperature	5 to 50VDC, Current 100 mA max.
Weight	600 nA max.
Accessories	Form C relay, 50V, 0.3A max.
Recommended accessory	1st-3rd row Form C relay
Available colours	50V 0.3A max. (resistance load)
	3rd-5th row Form C relay
	50V 0.3A max. (resistance load)
	Approx. 0.5s
	<0.3s
	-20° C - +55° C
	320g
	3 m Connection cable
	2 Mounting screws
	1 Mounting template
	1 Area adjustment tool
	Optex Infrared finder
	Black and silver

Detection area chart



	2.20	2.50	3.00	3.50*
Mounting height A				
Area Depth B	0.14	0.16	0.20	0.23
Area Depth C	0.42	0.48	0.58	0.67
Area Depth D	0.82	0.93	1.10	1.30
Area Depth E	1.35	1.54	1.85	2.16
Area Depth F	1.90	2.17	2.60	3.03
Area Width G	1.33	1.51	1.81	2.11
Area Width H	2.05	2.32	2.79	3.26
Area Width I	2.78	3.15	3.79	4.42

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

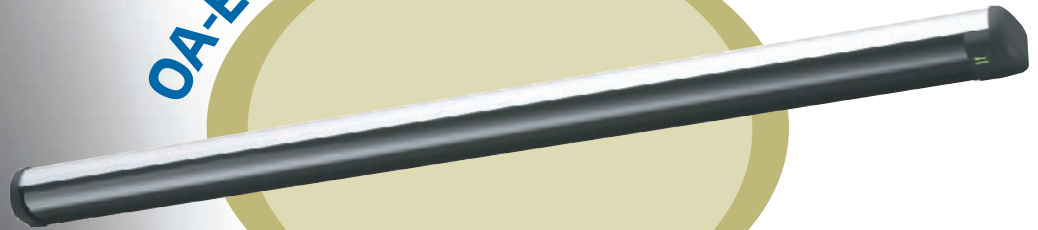
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5-8-12 Ogoto Otsu, 520-0101 Japan
 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
 WEBSITE : www.optex.co.jp



Swing door
Safety sensor

OA-Edge series



Safety *Reliable* *Design* **Triangulation**
Active infrared
Plug and play modular flexible **UNIVERSAL**
Easy installation **QUALITY**

The Optex OA-Edge series are developed to increase the safety level on automatic swing door. The OA-Edge 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. The OA-Edge T is in compliance with the latest European and local regulations as DIN 18650 and tested and approved by the German test organization TÜV.



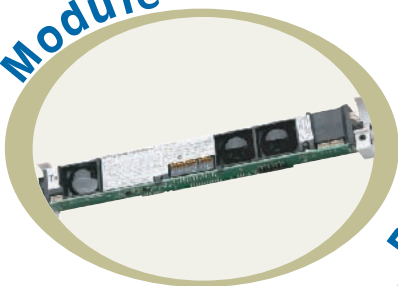
Easy installation

The sensor is easy to install by simply clicking the master and slave modules into the profile, the master and slave modules are connected by a communication cable with connector. Alternative power supply connector on the master module makes installation more flexible and quicker.

Design

The Optex OA-Edge series has a very slim design in order to fit on many different types of swing doors. The sensor is available in a silver or black profile completed with a black lens.

Module



Power



Safety

The wide detection area of each module secures a high level of safety around the door and will prevent the door leaf from hitting an object or person near the door. The Optex OA-Edge T is tested and approved by the German test organization TÜV and in compliance with the German DIN 18650.

Module

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 cm only one master module is required, a maximum of 3 slave modules can be connected to this master module.

Quick adjustment

Adjustments to the sensor are done by the use of dipswitches and a levelling screw. When the sensor is set up an easy push on the function switch will start the initialization and learning cycle. After installation, sensor status can be easily checked by the visible LED.

Specifications OA-Edge

Model	OA-Edge
Profile colour	Silver / black
Mounting height	1.5 (4'11") to 3.0 m (9'10")
Detection method	Triangulation
Min. configuration	1 master module + 1 LED module
Max. configuration	4 sensor modules + 2 LED modules
Depth angle adjustment	0° - +25°
Power supply	12 - 24 VAC ±10% (50 /60 Hz) 12 - 30 VDC ±10%
Power consumption	<1.3W (<2VA at AC) at min. configuration <3.5W (<4.5V A at AC) at max. configuration
Test input	Opto coupler 10 - 30 VDC Current / 6mA max.
Safety / Test output 1	Form C relay
Safety / Test output 2	Voltage / 42 VDC Current / 0.3mA max.(resistance load)
Output hold time	Approx. 0.5 sec.
Response time	<75m sec.
Operating temperature	-20°C - +55°C (-4°F - +131°F)
Operating humidity	80%
IP rate	IP54
Dimensions	various x 44 x 51 mm (w x h x d)
Accessories	1 Operation manual, 4 mounting screws, 1 power supply cable 3m 1 communication cable, 1 door transferloop, 1 wiring cover

Specifications OA-Edge T

Model	OA-Edge T
Profile colour	Silver / black
Mounting height	1.5 (4'11") to 3.0 m (9'10")
Detection method	Triangulation
Min. configuration	1 master module + 1 LED module
Max. configuration	4 sensor modules + 2 LED modules
Depth angle adjustment	0° - +25°
Power supply	12 - 24 VAC ±10% (50 /60 Hz) 12 - 30 VDC ±10%
Power consumption	<1.3W (<2VA at AC) at min. configuration <3.5W (<4.5V A at AC) at max. configuration
Test input	Opto coupler 10 - 30 VDC Current / 6mA max.
Safety / Test output 1	Form C relay
Safety / Test output 2	Voltage / 42 VDC Current / 0.3mA max.(resistance load)
Output hold time	Approx. 0.5 sec.
Response time	<75m sec.
Operating temperature	-20°C - +55°C (-4°F - +131°F)
Operating humidity	80%
IP rate	IP54
Noise level	<70dBA
Category	2 (EN ISO13849-1 : 2008)
Performance level	d (EN ISO13849-1 : 2008)
Dimensions	various x 44 x 51 mm (w x h x d)
Accessories	1 Operation manual, 4 mounting screws, 1 power supply cable 3m 1 communication cable, 1 door transferloop, 1 wiring cover

OPTEX CO.,LTD.

5-8-12 Ogoto Otsu, 520-0101 Japan
 TEL : +81(0)77-579-8700 FAX : +81 (0)77-579-7030
 WEBSITE : www.optex.co.jp



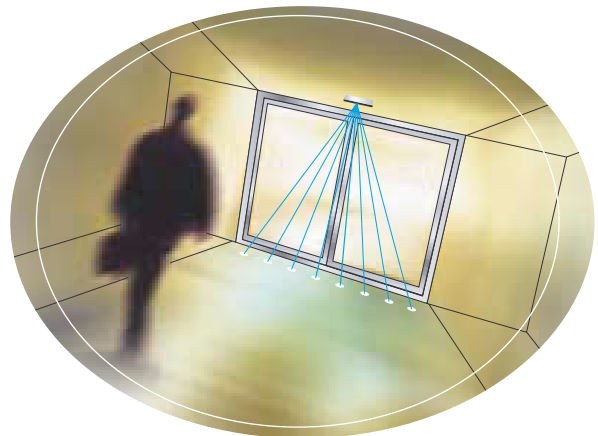
Active infrared Door Sensor

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)

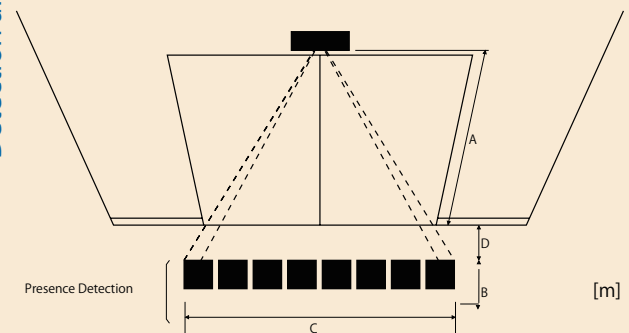


Active Infrared Door Sensor

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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 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
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Active infrared Door Sensor

OA-Presence2



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

The Optex OA-Presence 2 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 2 enables you to install a maximum of threshold- and side screen safety in compliance with the latest European and local regulations like prEN-12650 and DIN-18650. This sensor is tested and approved by the German test organization TÜV.



Side screen safety

The OA-Presence 2 can be used as a side screen safety sensor. By installing the sensor at the rear end of the door the OA-Presence 2 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 2 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 2 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 2 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 2 is tested and approved by the German test organization TÜV and in compliance with the DIN-18650, the preliminary European norm prEN-2650.

Recessed mount

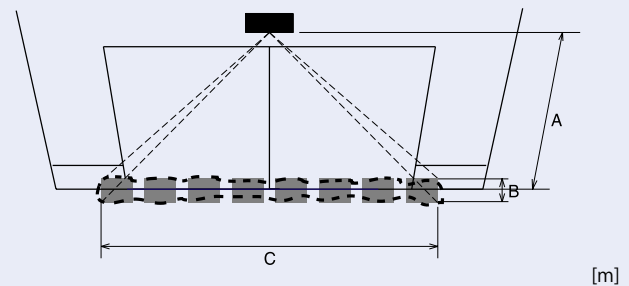
By installing the OA-Presence 2 on an mounting bracket (to be supplied by the door manufacturer) it is easy to integrate the sensor into the header of the door operator. The sensor is accessible from the bottom so installation and settings can be made without removing the operator's cover.

Active infrared Door Sensor

Specifications

Model	OA-Presence 2
Cover colour	Black / silver
Mounting height	2.0 m to 3.0 m
Detection area	See detection area
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)
Output hold time	Approx. 0.5 sec.
Response time	<0.3 sec.
Operating temperature	-20° C - +55° C
Operating humidity	<80%
IP rate	IP44
Category	2 (ISO 13849-2).
Weight	260g
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Cable 3 m

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.				

OPTEX CO.,LTD.

5-8-12 ogoto Otsu, 520-0101 Japan
 TEL : +81(0)77-579-8700 FAX : +81 (0)77-579-7030
 WEBSITE : www.optex.co.jp



Microwave Door Sensor

OM-105C/106C



Quality Convenience Reliable Immunity
Technology flexible motion detection
Large pattern DESIGN EASY ADJUSTMENT

The Optex OM-105C and OM-106C microwave sensors are especially designed to increase the comfort on opening all types of automatic doors. The Optex microwaves 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.

Detection area

The Optex microwave range offers a narrow or wide detection area that makes it suitable for all types of installations. The narrow setting is easy to set by just clicking the narrow lens on to the radar module. By turning it up and down the microwave can be adjusted quick and simple for many different applications. No external set-up device is needed.

Swing door activation

When installed above the pivot the Optex OM-106C will ignore the door movement of a swing door. Therefore it is ideal to install as swing door activation sensor.

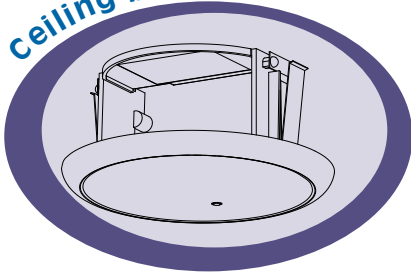
Auto-Caution mode

The Auto-Caution mode guarantees more reliability to prevent the door from closing, even if a person is wavering in the detection area. The sensor will immediately change from uni directional to multi directional for safety purposes. This function is only available on the OM-106C.

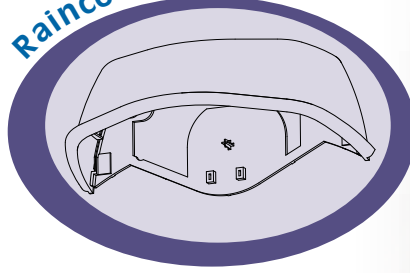
Uni directional setting

The OM-106C is equipped with a dipswitch for uni directional or bi directional mode. 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.

Ceiling bracket



Raincover

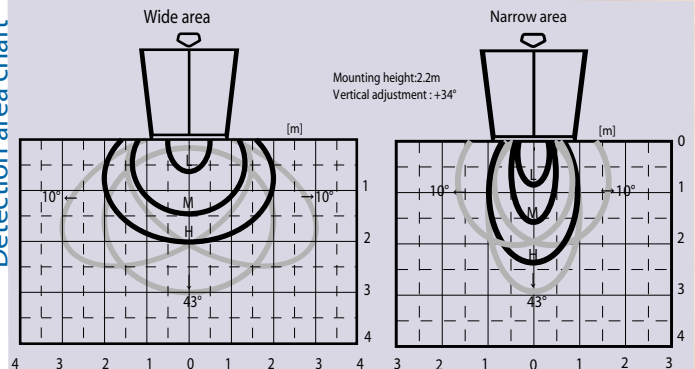


Microwave Door Sensor

Specifications

Model	OM-105C / OM-106C
Cover color	Silver / black
Mounting height	2.0 m - 3.5 m
Detection method	Microwave doppler effect
Power frequency	24.125GHz
Power density	<20dBm
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 24V AC (±10%) 12 to 30VDC (±10%)
Power consumption	<1.5W (<2V A at AC)
Minimum speed	5cm/sec.
Operating indicator	Green / Standby Red / Detection Green blinking / Set-up
Output	Form C relay 50V 0.3 Max. (resistance load)
Output hold time	0.5 sec. / 2.0 sec.
Response time	<0.3 sec.
Operating humidity	<80%
Operating temperature	-20°C to +55°C
IP rate	IP54
Outer dimensions	131 x 61 x 55 mm (w x h x d)
Weight	140 g
Accessories	1 Cable 3m 1 Operation manual 2 Mounting screws 1 Mounting template 1 Narrow lens
Optional accessories	Ceiling bracket / Raincover

Detection area chart



Sensitivity potentiometer	Wide area		Narrow area	
	Width	Depth	Width	Depth
High	4.0m	2.0m	2.0m	2.3m
Mid	2.6m	1.5m	1.0m	1.6m
Low	2.0m	0.6m	0.6m	0.8m

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

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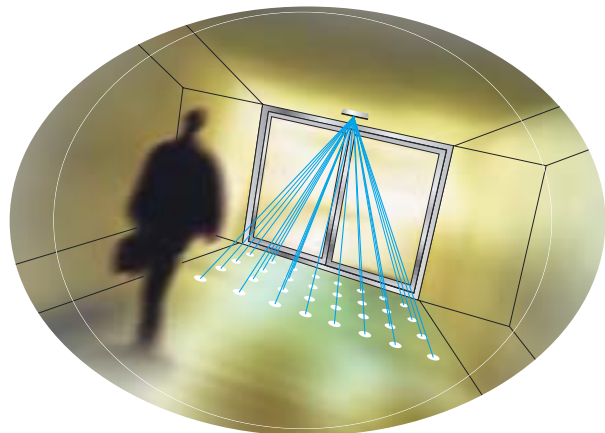
Passive Infrared Door Sensor

OP-08C



Compact Reliable Flexible Fail secure
Passive Infrared fail safe activation DESIGN
QUALITY Large detection area

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 makes it also suitable for recessed mounting.



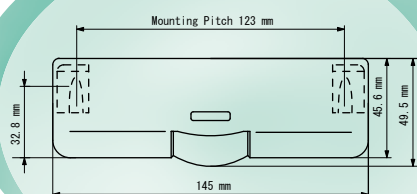
Flexible installation

The Optex OP-08C is very easy to install. Its compact size is ideal for mounting on the header, transom or ceiling, up to 4m (13 feet) 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.

Outer dimensions



Passive Infrared Door Sensor

Specifications

Model	OP-08C
Mounting Height	max. 4.0 m (13'1")
Detection Area Adjustments	See chart
Detection Technique	Passive Infrared
Power Supply	12 - 24V AC/DC
Current Draw	50mA max.
Power/Operating Indicator	LED ON: Standby LED OFF: Detection
Output Contact	Form C Relay 50V, 0.3A (Resistance Load)
Relay Hold Time	Approx. 1.5s
Operating Temperature	-20°C - +55° (-4°F - +131°F)
Outer Dimensions	123 x 50 x 32mm (w x h x d)
Weight	90 g (3.2oz.)
Accessories	2 m Connection Cable 2 Mounting Screws Mounting Template Area Masking Seal
Available Colors	Black (OP-08CBL), Silver (OP-08CS) and White (OP-08CW)

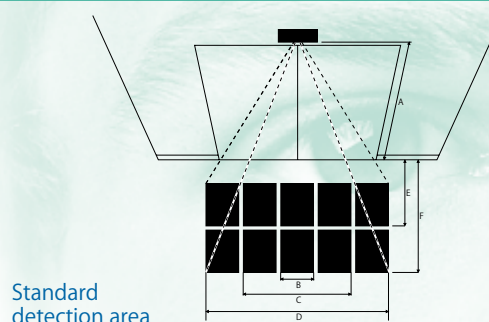
Design

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

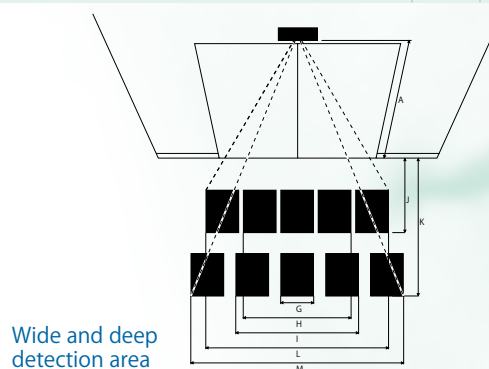
The OP-08's advanced circuitry minimizes false activations, making it ideal for environments with sunlight, wind, rain, snow or radio frequency noise.

Detection area chart



Standard detection area

Mounting Height A	2.50	3.00	4.00
Area Width B	0.30	0.40	0.50
Area Width C	1.80	2.10	2.90
Area Width D	3.60	4.30	5.70
Area Depth E	0.80	1.00	1.30
Area Depth F	2.30	2.80	3.70



Wide and deep detection area

Mounting Height A	2.50	3.00	4.00
Area Width G	0.50	0.60	0.80
Area Width H	1.50	1.80	2.50
Area Width I	2.50	2.90	3.90
Area Depth J	1.40	1.60	2.20
Area Depth K	3.30	3.90	5.20
Area Width L	3.00	3.70	4.90
Area Width M	5.00	6.00	8.10

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5-8-12 ogoto Otsu, 520-0101 Japan
 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
 WEBSITE : www.optex.co.jp



Miniature photo electric Safety Beam

OS-12C



SH-7MC/SH-10MC

Safety

Reliable Active infrared

Sensitivity

Plug and play failsafe

flexible
QUALITY

UNIVERSAL

Easy installation

The Optex OS-12C 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

The Optex OS-12C amplifier has screwless wiring terminals, which speeds 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.

Reliable sensor heads

The Optex SH-10MC sensor heads are recognized by door professionals worldwide for their reliability and resistance to sunlight and other interference. Quick-disconnect plugs make installation and service fast and easy. Cables are available in 2 lengths, 7m (23 feet) or 10m (33 feet).



Safety

For maximum safety, the amplifier is fail-safe, which ensures that the doors remain open in case components are damaged in any way. Two LED indicators will blink at the initial setup to alert the installer if the OS-12C is improperly aligned or if sensitivity is insufficient.

Multifunctional design

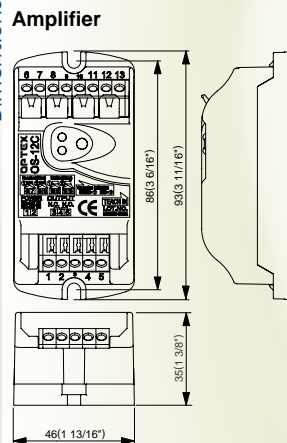
The compact design and standard 15mm beam heads make the OS-12C compatible with any type of automatic door and easy to service or maintain. Optional mounting accessories allow surface or recessed installation. A special edition including a reflector set is optional available. This safety beam is optimal for use with any sliding door, including train doors and automatic gates.

Miniature photo electric Safety Beam

Specifications

Model	OS-12C/OS-12CR
Detection area adjustments	0-10 m (0"-33")(OS-12CR: 0-2 m (0"-6'7"))
Detection method	Point to point near infrared light beam
Power supply	12 - 24V AC/DC
Current draw	135mA max.
Power/Operating indicator	LED on (green/red): Standby LED off (green/red): Detection LED blink (green/red): Insufficient sensitivity
Output contact	Form C relay 50V, 0.3A (resistance load)
Response time	Approx. 0.1s (from the moment of beam cut-off)
Relay Hold time	Approx. 0.5s
Operating temperature	-20°C - +55°C (-4°F - +131°F)
Light resistance	> 100,000 Lux
Outer dimensions	Amplifier: 46 x 93 x 32 mm (w x h x d) Sensorheads ø 15 mm Amplifier 65 g (2.5oz)
Weight	
Note	Sensor heads (SH-10MC) are necessary for operation and should be ordered separately. Either one or two cables can be used with each amplifier.

Dimensions



Sensorheads

One push installation type
Mounting hole 12 mm

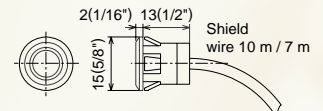
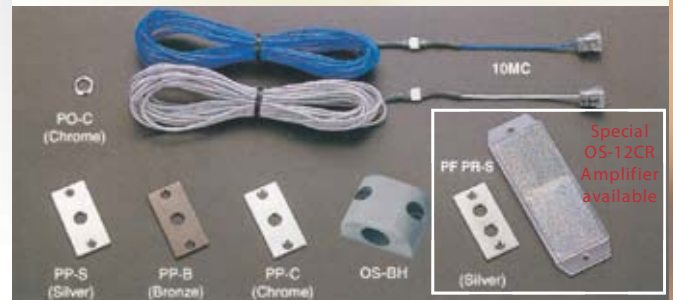
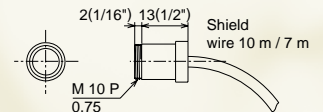


Plate installation type
Mounting hole 12 - 13 mm



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5-8-12 ogoto Otsu, 520-0101 Japan
TEL : +81(0)77-579-8700 FAX : +81 (0)77-579-7030
WEBSITE : www.optex.co.jp



Swing Door Presence Sensor

PRO SWING PREMIER



OA-603BL

RELIABLE
Premier Safety
PRECISE DETECTION
Quality
Easily controlled
Active Infrared Presence detection Sensor
Premier Style ALL OF THE TIME!

The Optex ProSwing Premier is designed to detect moving or stationary people in the swingpath of the door. The Optex ProSwing Premier provides Premier Safety and Premier Style all of the time!



Safety

The presence detection feature assures a safety signals is present at the door control in the event a person or an object is within the swing-path of an automatic swinging door. The presence detection timer can be preset to 15, 30, 60 or 120 seconds of duration.

Design

The modern style of the Pro-Swing Premier will blend beautifully for use in any setting.

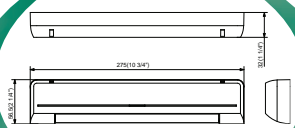
All Conditions

Variable sensitivity adjustments make this sensor suitable for every application including extreme weather conditions.

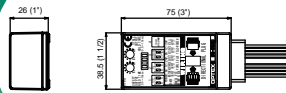
Advantages

- "Patented push and go / touch stop feature" for double swing doors! Push and go feature provides 4 full memory patterns to accommodate all door opening and closing combinations. An average sensor only provides 2 memory patterns and may require frequent "re-learning" of the sensor if push and go or touch stop features are used.
- Detection pattern looks through the threshold and both the threshold pattern and the swing pattern are independently adjustable giving you the maximum look back capability!
- Automatic and manual lock out features available on OC903 controller (provided).

Sensor Dimensions



Controller Dimensions



Swing Door Presence Sensor Specifications

Model	OA-603
Mounting Height	2.0m (6') to 2.5m (8'2")
Detection Area	Refer to Detection Area Chart
Detection Method	Active Infrared Reflection (Presence Detection Type)
Detection Angle	Threshold Area $\pm 5^\circ$
Adjustments	Swing Area $\pm 5^\circ$
Operation Indicator	Green: Stand-by Blinking Red: Threshold Area Detection Active Red: Swing Area Detection Active Blinking Yellow: Teaching
Current Draw	120mA Max
Response Time	< 0.3 second
Operating Temperature	-20° C to +55° C (-4° F to +131° F)
Weight	230g (8.2oz.)
Accessories	1 Sensor Cable (1m) 2 Mounting Screws 1 Operation Manual 1 Mounting Template

Model	OC-903C
Power Supply	12 - 24V AC, 12 - 30V DC
Current Draw	250mA max.
Output Contact	Form A Relay 50V, 0.3A Form C Relay 50V, 0.3A
- Activate Output:	0.5 to 10s
- Safety Output:	< 0.3s
Relay Hold Time (Safety Output Only)	0 - 24sec
Response Time	Green: Standby
Lockout Timer	Red: Door Opening
Power/Operation Indicator	Orange: Lockout
Operating Temperature	-20 - +55C degrees (-4F - 131F degrees)
Weight	50g (1.8 oz.)



OA-603BL



OC-903C

Detection Area Chart

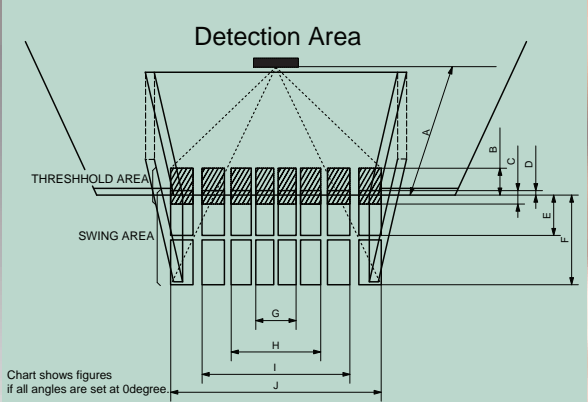


Chart shows figures if all angles are set at 0degree

	mm (ft.)	mm (ft.)	mm (ft.)
A	2000 (6'7")	2200 (6'11")	2500 (8'2")
B	364 (1'2")	400 (1'4")	455 (1'6")
C	182 (7")	200 (8")	227 (9")
D	23 (.875")	25 (1")	28 (1.12")
E	664 (2'2")	730 (2'5")	830 (2'9")
F	1391 (4'7")	1530 (5'1")	1739 (5'9")
G	682 (2'3")	750 (2'6")	852 (2'10")
H	1318 (4'4")	1450 (4'9")	1648 (5'5")
I	2045 (6'9")	2250 (7'5")	2557 (8'5")
J	2864 (9'5")	3150 (10'4")	3580 (11'9")

OPTEX CO.,LTD.

5-8-12 Ogoto Otsu, 520-0101 Japan
 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
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Active Infrared Door Sensor with Built-in Touchless Switch

PRO WAVE
Air-Slide



Combination Sensor and Door Switch



All-in-One **Touch Free** **Reliable** **Healthy**
Easy Installation **No Damage from Gurneys** **Quality**
Infrared Technology **Germ Free** **Fewer Components**

For use in Knowing Act Slide Door applications, the Air-Slide provides safety and convenience in one unit. The Air-Slide Active Infrared Door Sensor from OPTEX includes a built-in Touchless Switch. When the door is closed, the sensor operates as a virtual door switch, activating the door only when someone approaches the door and presents a hand near the sticker. This eliminates unwanted activations due to cross traffic. When activated, the Air-Slide provides safety throughout the threshold area keeping the door open until all people have moved away. Provide a high level of safety while eliminating cross-contamination points in your customer's facility with Air-Slide from OPTEX.

Touch Free

Eliminate one of the only cross contamination points on a low energy or knowing act door by installing the Optex Air-Slide Combination Sensor and Door Switch.

Fewer Components

Why install safety sensors and Knowing Act devices when you can provide the function of both in a single device? Reduce labor costs and eliminate another part that can be damaged.

Safety

Safety is assured by the two rows of presence detection closest to the door, which never shut off. 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.

All Conditions

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

Easy Adjustment

By using easily set switches and shutters, the sensor can be quickly adjusted for many different applications. No external set-up device is needed.



When a person waves their hand in front of the sticker, the door opens.



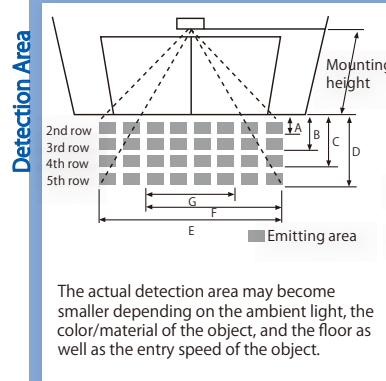
As the door opens, the Air-Slide provides a full detection area for safety.

Air-Slide Combination Sensor and Door Switch

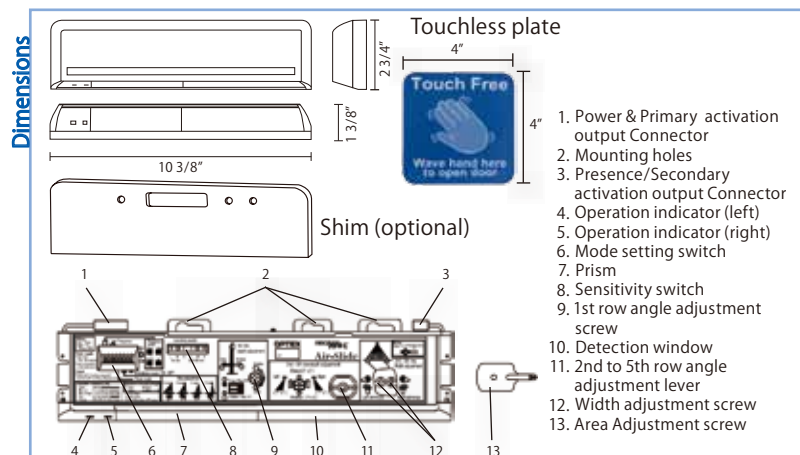
Specifications

Model	Air-Slide
Description	Combination Sensor and Door Switch
Cover color	Black
Mounting height	6'7" to 9'10"
Detection method	Active Infrared Reflection
Depth angle adjustment	1st row: -10° to +10° ; 2nd-5th rows: +1° to +13°
Width angle adjustment	1st row: selected prism; 2nd-5th rows: ±7°
Power supply	12 to 24V AC (±10%); 12 to 30V DC (±10%)
Power consumption	<1.5W (<3VA at AC)
Operation indicator (left)	Green: Standby; Blinking Red: 1st row detection; Blinking Orange: 1st and 2nd row or 1st and 3rd row detection; Red: 2nd row detection; Orange: 3rd to 5th row detection
Operation indicator (right)	None: Standby Yellow: 1st row adjustment mode
Output	Relay A (N.O.) 50V 0.1A Max. (Resistance load)
Output hold time	Approx. 0.5 sec.
Response time	<0.3 sec.
Operating temperature	-4 to 131° F
IP rate	IP44
Weight	320g (11.2 oz.)
Accessories	1 Power & Primary activation output cable (8'2") 1 Presence/Secondary activation cable (8'2") 1 Operation manual 2 Mounting screws; 1 Mounting template 1 Area adjustment tool 1 Middle prism; 1 Right prism; 1 Left prism 1 Touchless plate

Specifications may change without notice



Mnt. ht.	6'7"	7'3"	8'2"	8'10"	9'10"
A	8"	9"	10"	11"	12"
B	1'5"	1'6"	1'9"	1'10"	2'
C	2'7"	2'10"	3'2"	3'5"	3'10"
D	3'12"	4'4"	4'11"	5'4"	5'12"
E	7'4"	8'	9'1"	9'10"	10'12"
F	5'3"	5'9"	6'7"	7'1"	7'11"
G	3'4"	3'8"	4'2"	4'6"	4'12"

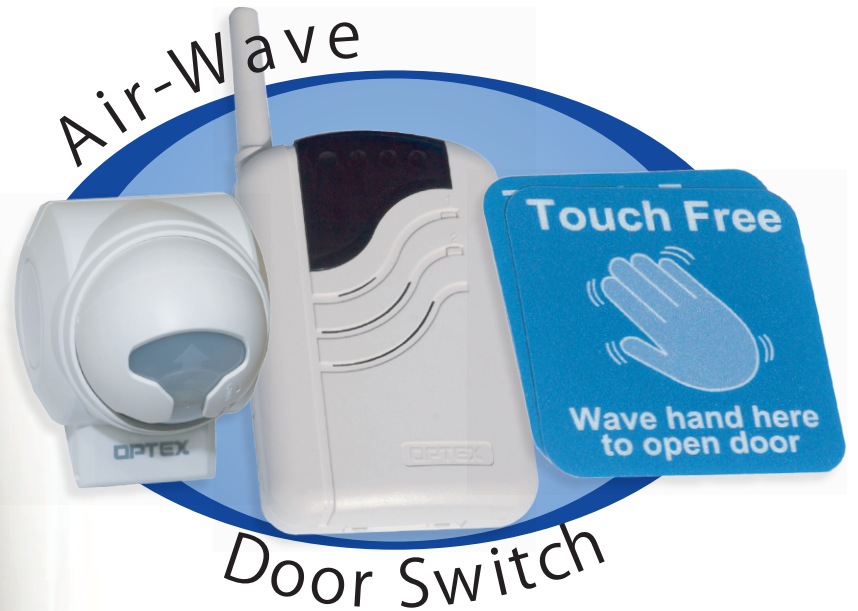


OPTEX CO.,LTD.

5-8-12 Ogoto Otsu, 520-0101 Japan
 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
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Wireless/Touch-free Door Switch



Wireless Easy Installation Infrared Technology Touch Free Reliable Healthy Quality No Damage from Gurneys Germ Free 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.

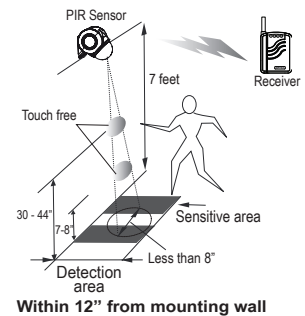
Wireless

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

Height	Area - Width x Depth
6' (1.8m)	10" (0.26m) x 7" (0.18m)
7' (2.1m)	12" (0.30m) x 8" (0.20m)
8' (2.4m)	14" (0.35m) x 9" (0.23m)



Detection Area Pattern

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

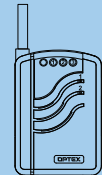
Specifications may change without notice

Wireless Transmission Range



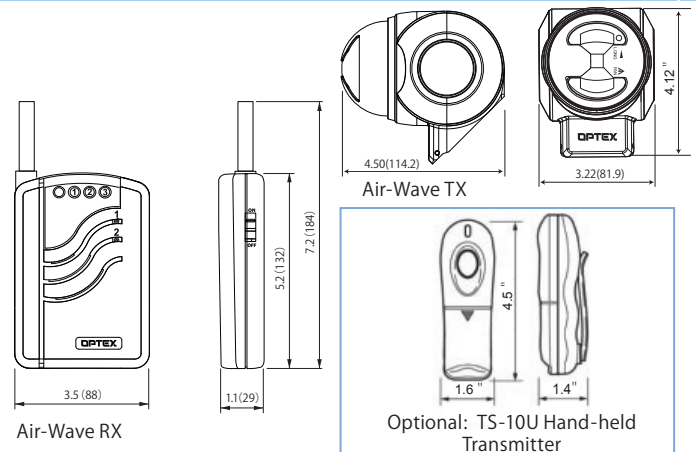
Sensor unit
Air-Wave TX

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



Wireless Receiver
Air-Wave RX

Dimensions

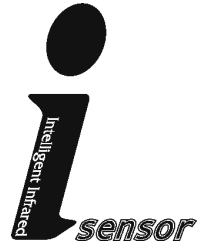


OPTEX CO.,LTD.

5-8-12 ogoto Otsu, 520-0101 Japan
TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
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ActiveInfrared Door Sensor

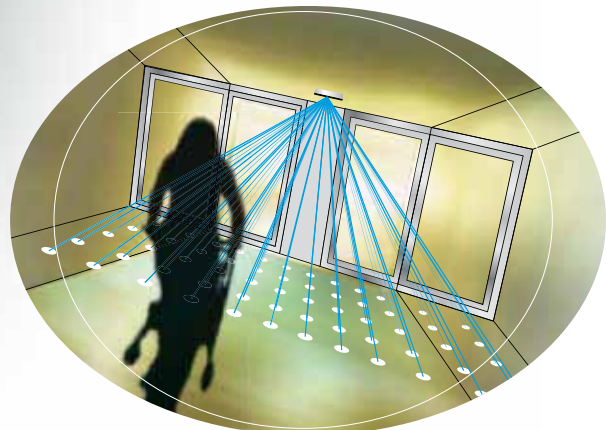


i sensor



Safety Reliable Large pattern MOTION Flexible
Convenience immunity TECHNOLOGY Presence detection DESIGN
Easy adjustment

With its large motion and presence detection pattern, the i sensor features a safety zone in the threshold and sidelights that is always on. The size and shape of the detection pattern can be easily adjusted to match almost any application.



Large detection area

The extra-wide pattern covers the door opening plus sidelights, providing fast detection for traffic approaching from any angle. The sensor's enhanced pattern depth enables it to detect people and objects farther away and allows the door to open conveniently for them.

Safety

Safety is assured by the two rows of presence detection closest to the door, which never shut off. 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.

Flexible

The i sensor is perfectly suited for almost any type of door or configuration. It can be set for unidirectional detection, which saves energy by allowing the door to close more quickly for departing traffic.

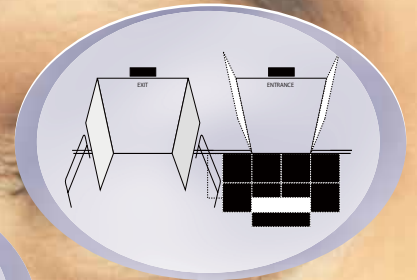
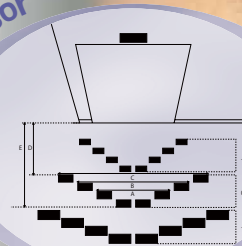
Easy adjustment

By using easily-set switches and shutters, the sensor can be quickly adjusted for many different applications. No external set-up device is needed.

All conditions

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

i sensor

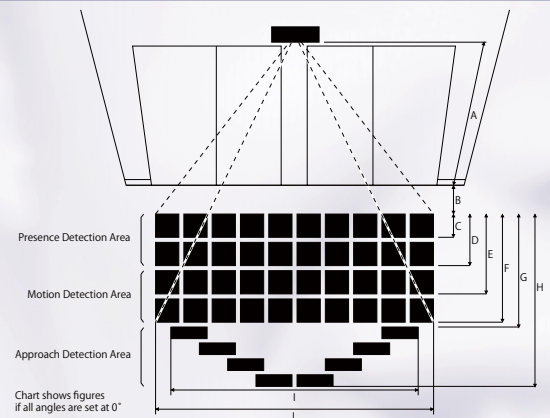


Active Infrared DoorSensor

Specifications

Model	i-one
Mounting Height	max. 9'10" (3.0m)
Detection Area Adjustments	Approach Depth Angle $\pm 15^\circ$ Motion Presence Area $\pm 5^\circ$ Approach Width: All spots can be eliminated by dipswitch Motion Presence Area width can be adjusted by shutter
Detection Technique	Active Infrared Reflection (Presence Detection Type)
Power Supply	12 - 24V AC, 12 - 30V DC
Current Draw	180mA max. (AC 12V)
Power/Operating Indicator	Green: Standby Blinking Red: 1 st Row Detection Active Red: 2 nd Row Detection Active Orange: Motion Detection Active Blinking Orange: Approach Detection Active
Output Contact	Form C Relay 50V, 0.3A (Resistance Load).
Relay Hold Time	0.5 to 2s
Response Time	< 0.3s
Operating Temperature	-4°F - +131°F (-20°C - +55°)
Dimensions	304 x 70 x 66mm (w x h x d)
Weight	14oz. (400g)
Accessories	3m Connection Cable, 2 Mounting Screws, Mounting Template, Area adjustment tool

Detection area chart



Mounting Height A	7'3" (2.20m)	8'2" (2.50m)	9'10" (3.00m)
Distance to mounting surface B	3'9" (0.10m)	4'5" (0.11m)	5'3" (0.14m)
Area Depth C presence detection	10" (0.25m)	11" (0.28m)	1'1" (0.34m)
Area Depth D presence detection	2' (0.60m)	2'3" (0.68m)	2'8" (0.82m)
Area Depth E motion detection	3'3" (1.00m)	3'9" (1.13m)	4'6" (1.36m)
Area Depth F motion detection	4'9" (1.45m)	5'5" (1.65m)	6'6" (1.98m)
Area Depth G motion detection	4'11" (1.50m)	5'7" (1.71m)	6'9" (2.05m)
Area Depth H approach detection	8'6" (2.60m)	9'9" (2.96m)	11'8" (3.55m)
Area Width I approach detection	14'9" (4.50m)	16'9" (5.11m)	20'2" (6.14m)
Area Width J	16'1" (4.90m)	18'3" (5.57m)	21'11" (6.68m)

OPTEX CO.,LTD.

5-8-12 ogoto Otsu, 520-0101 Japan
 TEL : +81(0)77-579-8700 FAX : +81(0)77-579-7030
 WEBSITE : www.optex.co.jp

Door Category

- Slidigng
- Swing
- industrial
- Security

Sensor Type

- Activation
- Safety
- Access Control

Activation & Safety Sensor "Compact design"



ACTIVE INFRARED SENSOR

OA-203C-2

Activation and safety infrared sensor for automatic doors.
The slim and compact design fits to any entrance.
2 lines of infrared enable the safety around the door and
the deep detection area.

OA-203C-2

Adaptable to all environments

The detection areas can be freely adjusted in the left, right and longitudinal directions. The unit makes possible reliable detection and activation right up to the door, for various kinds of door.

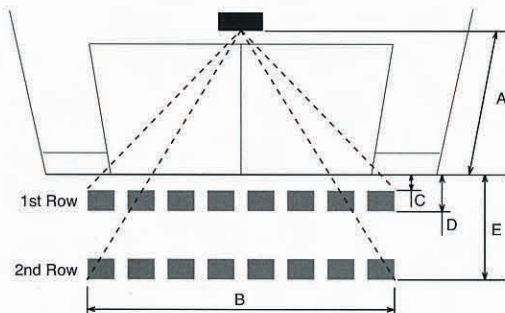
Safety

Safety area is featured by the 1st 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.

Easy installation

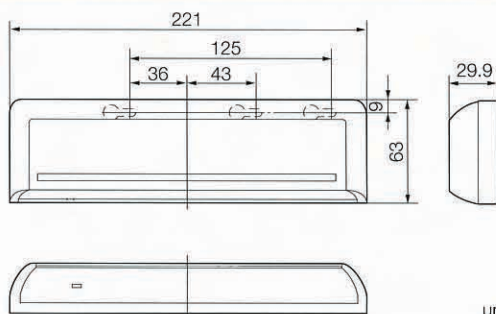
The OPTEX OA-203C-2 is simple to install. All the settings are mechanically adjustable with dipswitches and levers.

Detection area chart

(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	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"
C	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"
D	0.30 11 13/16"	0.34 1'1 3/8"	0.38 1'2 15/16"	0.41 1'4 1/8"	0.46 1'6 1/8"
E	1.34 4'4 3/4"	1.48 4'10 1/4"	1.68 5'6 1/8"	1.81 5'11 1/4"	2.02 6'7 1/2"

Dimensions



unit : mm

Specifications

Model	OA-203C-2
Cover Color	Silver / Black
Mounting Height	3.0m (9'10") Max.
Detection Method	Active Infrared Reflection Method
Detection Angle	±4°adjustable by 1°every one click
Adjustments	(Deep / Shallow)
Detection Width	±7°adjustable by 3.5°every one click
Adjustments	(Right / Left)
Power Supply	12 to 30V AC/DC
Current Draw	160mA Max. (at 12V AC)
Operation Indicator	Green : Stand-by Red : 1st Row Detection Active Orange : 2nd Row Detection Active
Output	"Form C" relay 50V 0.3A Max. (resistance load)
Relay Hold Time	Approx. 0.5 sec.
Response Time	< 0.3 sec.
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Weight	200g(7.1oz)
Accessories	1 cable 3m (9'10'), 2 Mounting Screws 1 Operation Manual, 1 Mounting Template 1 Area Adjustment Tool

OPTEX CO.,LTD.

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

TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030

WEBSITE : www.optex.co.jp

Door Category

- Sliding
- Swing
- industrial
- Security

Sensor Type

- Activation
- Safety
- Access Control

Activation & Safety Sensor "Flexibility"



ACTIVE INFRARED SENSOR

OA-205V-2

Activation and safety infrared sensor for automatic doors. 2 lines of infrared enable the safety around the door and the deep detection area.

High safety performance with the presence detection function and wide range of angle change.

OA-205V-2

Flexibility

The OPTEX OA-205V-2 is recommended for almost any types of door applications such as supermarkets, shops, and airports.

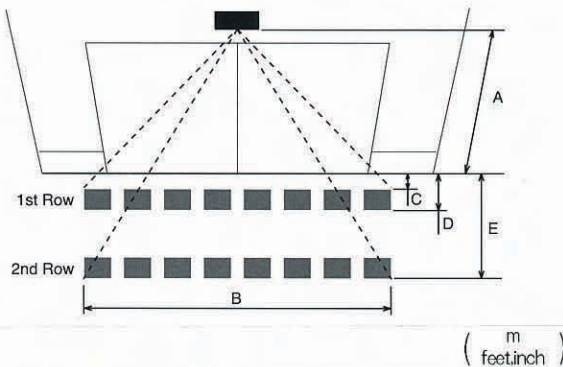
Safety

Safety area is featured by the 1st 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.

Easy installation

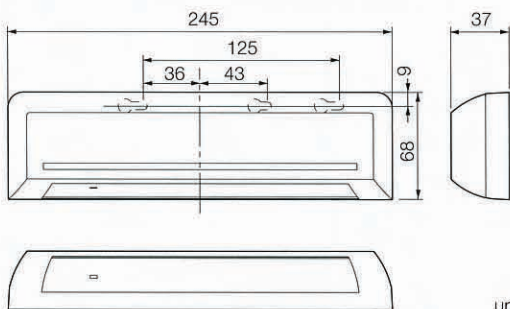
The OPTEX OA-205V-2 is simple to install. All the settings are mechanically adjustable with dipswitches and levers.

Detection area chart



	2.00	2.20	2.50	2.70	3.00
A	6'6 3/4"	7'2 5/8"	8'2 7/16"	8'10 5/16"	9'10 1/8"
B	6'10 11/16"	7'6 9/16"	8'6 3/8"	9'2 1/4"	10'2 1/16"
C	0.16	0.18	0.20	0.22	0.25
	6 5/16"	7 1/16"	7 7/8"	8 11/16"	9 13/16"
D	0.27	0.29	0.33	0.36	0.40
	10 5/8"	1'1 7/16"	1'1"	1'2 3/16"	1'3 3/4"
E	1.34	1.47	1.68	1.81	2.01
	4'4 3/4"	4'10 1/16"	5'6 1/8"	5'11 1/4"	6'7 1/8"

Dimensions



unit : mm

Specifications

Model	OA-205V-2
Cover Color	Silver / Black
Mounting Height	2.0m (6'6") to 3.0m (9'10")
Detection Method	Active Infrared Reflection Method
Detection Angle	Base 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 110V AC/DC
Current Draw	160mA Max. (at 12V AC)
Power Consumption	4.0VA Max. (at 100V AC)
Operation Indicator	Green : Stand-by Red : 1st Row Detection Active Orange : 2nd Row Detection Active
Output	"Form A" relay 50V 0.1A Max. (resistance load)
Relay Hold Time	Approx. 0.5 sec.
Response Time	< 0.3 sec.
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Weight	230g (8.2oz)
Accessories	1 cable 3m (9'10"), 2 Mounting Screws 1 Operation Manual, 1 Mounting Template 1 Area Adjustment Tool, 1 Protection sheet

OPTEX CO.,LTD.

5-8-12 ogoto Otsu, 520-0101 Japan
 TEL : +81 (0)77-579-8700 FAX : +81 (0)77-579-7030
 WEBSITE : www.optex.co.jp



Active infrared **Door Sensor**

OA-4500



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

The Optex OA-4500 is the new active infrared door sensor standard for use on industrial doors up to a mounting height of 4,5 meter. The OA-4500 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. The Optex OA-4500 meets market requirements in a variety of industrial door applications.

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-Axis series 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 sensor's 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 area's can be adjusted independently.

Easy adjustment

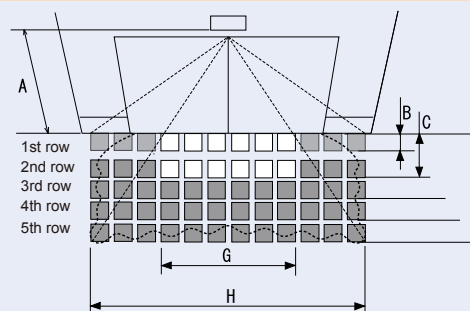
Installation time can be reduced to a minimum by using easily set switches and trimmers, therefore the sensor can be quickly adjusted for many different applications. To adjust the presence detection area the use of an Optex Infrared finder is recommended.

Active infrared Door Sensor

Specifications

Model	OA-4500
Colour	Black / silver
Mounting height	2.5 m to 4.5 m
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
Weight	320g
Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 4 m

Detection area chart



Mounting height A	2.50	3.00	3.50	4.00
Area depth B	0.14	0.16	0.20	0.23
Area depth C	0.42	0.48	0.58	0.67
Area depth D	0.82	0.93	1.10	1.30
Area depth E	1.35	1.54	1.85	2.16
Area depth F	1.90	2.17	2.60	3.03
Area width G	1.33	1.51	1.81	2.11
Area width H	2.05	2.32	2.79	3.26
Area width I	2.78	3.15	3.79	4.42

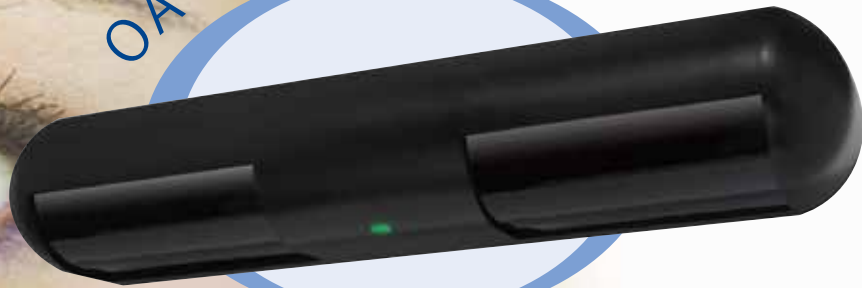
OPTEX CO.,LTD.

5-8-12 ogoto Otsu, 520-0101 Japan
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Active infrared Door Sensor

OA-6500



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

The Optex OA-6500 is the new active infrared door sensor standard for use on industrial doors up to a mounting height of 6,5 meter. The OA-6500 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. The Optex OA-6500 meets market requirements in a variety of industrial door applications.

Combination

The OPTEX OA-6500 is based on active infrared technique, combining activation and safety into one sensor. By using the unique OPTEX presence detection technique the OA-6500 series provides maximum safety around the threshold of an industrial door and offers, at the same time, an extra large motion detection area for door activation with its maximum installation height up to 6.5m.

Suitable for industrial applications

The OPTEX OA-6500 has a lot of functions optimized for industrial doors.

- The 1st row equipped with door cancel function reduces the malfunction caused by the door movement.
- The activation & safety outputs can be selected from N.C. and N.O. simply by selecting the dipswitches.
- The automatic infinite presence detection increase safely and avoid unwanted door opening due to sudden change in floor condition.

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 area's can be adjusted independently.

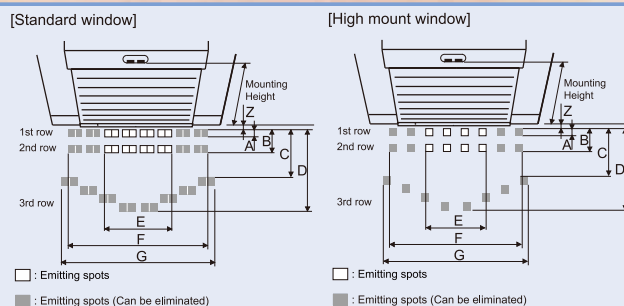
Easy adjustment

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.

Active infrared Door Sensor

Specifications	Model	OA-6500
Colour	Colour	Black
Mounting height	Mounting height	2.5 m(8'2") to 6.5 m(21'4")
Detection area	Detection area	See detection area
Detection method	Detection method	Active infrared reflection method (all presence detection)
Depth adjustment	Depth adjustment	3rd row: +30° to +50° 1st and 2nd rows -15° to +5°
Power supply	Power supply	12 to 24V AC/DC
Power consumption	Power consumption	<2.5W (<3.5VA at AC)
Operation indicator	Operation indicator	Green / stand-by Red / 1st row detection Orange / 2nd and 3rd rows detection
Activation Output	Activation Output	When 3rd row detects N.C./N.O. selectable 50V0.3A max. (resistance load)
Safety Output	Safety Output	When 1st and 2nd row detects N.C./N.O. selectable 50V0.3A max. (resistance load)
Relay hold time	Relay hold time	Approx. 0.5 sec.
Operating temperature	Operating temperature	-20° C to +55° C
Weight	Weight	600g
Accessories	Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 High mount window 1 Cable 4 m 1 Protection sticker

Detection area chart



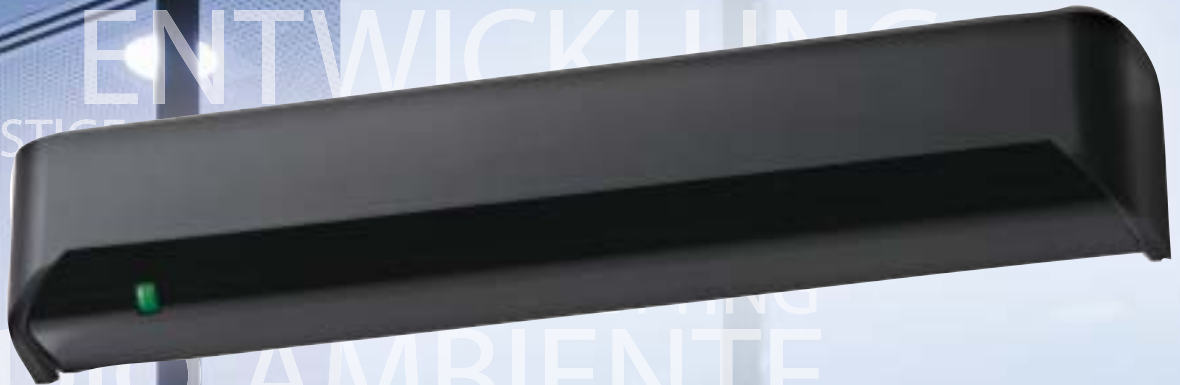
Mounting height	Standard window			High mount window	
	2.50 (8'2")	3.50 (11'6")	4.50 (14'9")	5.50 (18'1)	6.50 (21'4")
Area depth A	0.15 (6")	0.21 (8")	0.28 (11")	0.34 (1'1")	0.40 (1'4")
Area depth B	0.56 (1'10")	0.79 (2'7")	1.01 (3'4")	1.24 (4'1")	1.47 (4'10")
Area depth C	0.68 (2'3")	0.96 (3'2")	1.24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

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OAM-Dual T/TV/TF

Combined active infrared and microwave door sensor



QUALITÉ SUPERIEURE
ENTWICKLUNG
LANGFRISTIGE
IN
MEDIO AMBIENTE
CARE OF THE LOWEST
FAILURE RATE IN THE MARKET

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

The OAM-Dual serie of products are in compliance with the latest European and local regulations as prEN16005 and DIN18650:2010, safety tested and approved by the German test organization TÜV.

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

OAM-Dual T/TV/TF

SAFETY/LOOKBACK FUNCTION

The active infrared presence detection offers 2 rows of safety in front of the threshold which can be set very accurately and can be moved 6° towards or away from the door. As an additional safety functionality the OAM-Dual provides an extra row of presence detection that looks into the threshold. This row will be automatically shut off when the complete presence detection area is cleared and as soon as the doors start to close. The installation of safety beams is no longer mandatory. The Optex OAM-Dual series is safety tested and approved by the German test organization TÜV in compliance with the German DIN18650:2010 and the preliminary European Norm prEn16005.

MOTION DETECTION

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

ESCAPE ROUTES

The OAM Dual TV (Voltage) and TF (Frequency) versions are equipped with a monitored activation output for the use in escape routes in compliance with DIN18650:2010, prEN16005 and AutSchR.

EASY INSTALLATION

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

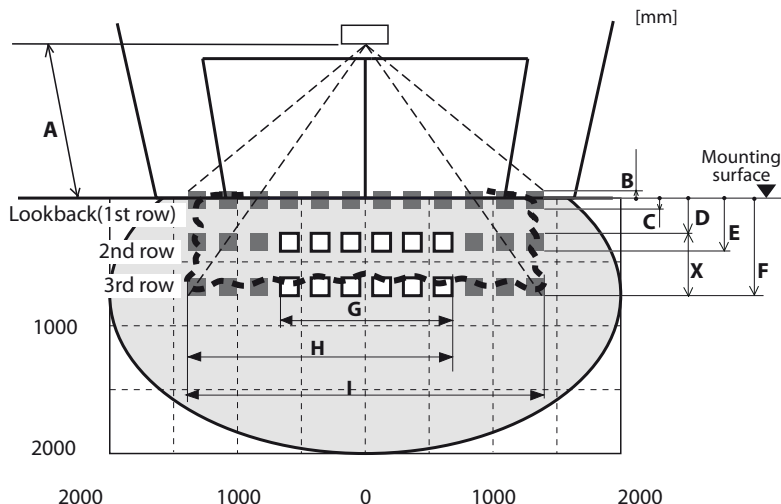
QUALITY

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

SPECIFICATIONS

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

DETECTION AREA



ACTIVATION/SAFETY TEST OUTPUT

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

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

Door Category

- Sliding
- Swing
- Industrial
- Security

Sensor Type

- Activation
- Safety
- Access Control

Activation Sensor
“Simple area adjustment”



MICROWAVE SENSOR

OM-104C

Microwave activation sensor for automatic doors. The OM-104C are 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.

OM-104C

Highly protective housing

Dust or insects blocking constructure , and static-free antenna design reduce malfunction and breakdown of sensor.

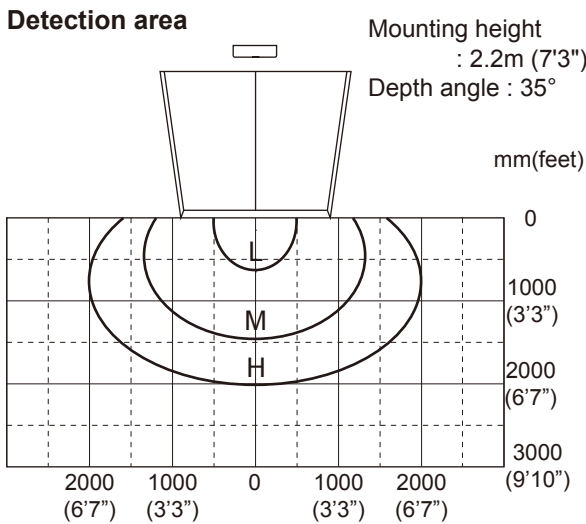
Easy Detection Area Adjustment

With OPTEX unique tool, simple and convenient adjustment and the detection area close to the door can be set.

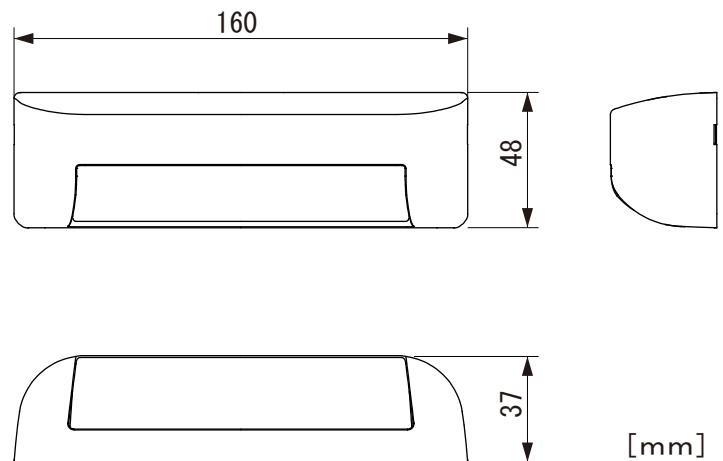
Stylish design

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

Detection area



Dimensions



Specifications

Model	: OM-104
Cover color	: Silver / Black
Mounting height	: 2.0 (6'7") to 3.5m (11'5")
Detection method	: Microwave doppler effect
Power frequency	: 24.125GHz
Power density	: <20dBm
Detection area	: See Detection area
Minimum speed	: 5cm(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	: < 0.7W(<1.3VA at AC)
Current draw	: < 45mA (at 12VDC)

Operation indicator	: Red / Stand-by None / Detection Red blinking / Set-up
Output	: Form A relay 50V 0.1A Max.(Resistance load)
Output hold time	: 0.5sec.
Response time	: <0.3 sec.
Operating humidity	: <80%
Operating temperature	: -20°C to +55°C(-4°F to 131°F)
IP rate	: IP54
Weight	: 120g (4.2oz)
Accessories	: 1 Cable 2.5m (8'2") 1 Operation manual 2 Mounting screws

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5-8-12 ogoto Otsu, 520-0101 Japan
TEL : +81(0)77-579-8700 FAX : +81 (0)77-579-7030
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Active infrared Door Sensor

OA-Presence T



Reliable
 Easy installation
 Quality
 Infinity
 Threshold safety
 Advanced
 Side screen safety
 Active infrared
 presence
 detection
 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 prEN12650.

Recessed mount

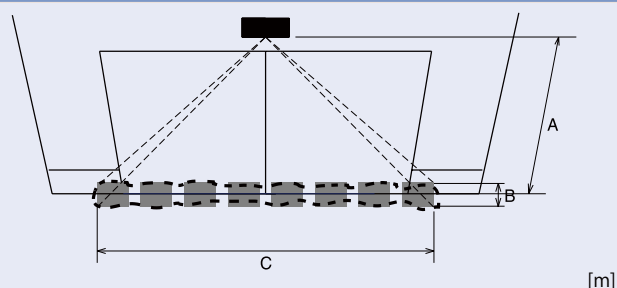
By installing the OA-Presence T on an mounting bracket (to be supplied by the door manufacturer) it is easy to integrate the sensor into the header of the door operator. The sensor is accessible from the bottom so installation and settings can be made without removing the operator's cover.

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)
Output hold time	Approx. 0.5 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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