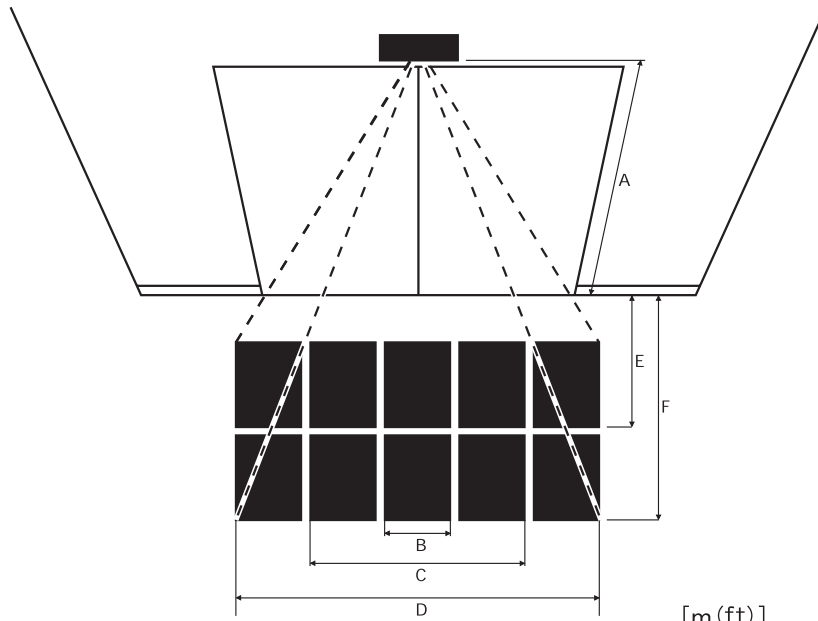


OPTEX

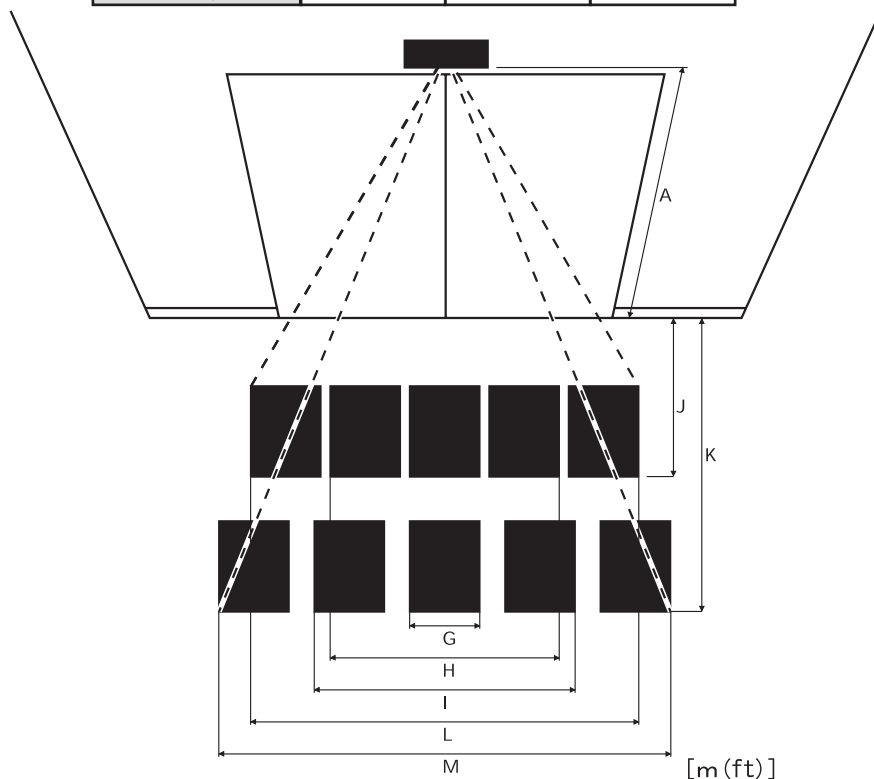
Specification Sheets

Master Index



Mounting height A	2.50 (8.2)	3.00 (9.8)	4.00 (13.1)
Area width B	0.30 (1.0)	0.40 (1.3)	0.50 (1.6)
Area width C	1.80 (5.9)	2.10 (6.9)	2.90 (9.5)
Area width D	3.60 (11.8)	4.30 (14.1)	5.70 (18.7)
Area depth E	0.80 (2.6)	1.00 (3.3)	1.30 (4.3)
Area depth F	2.30 (7.5)	2.80 (9.2)	3.70 (12.1)

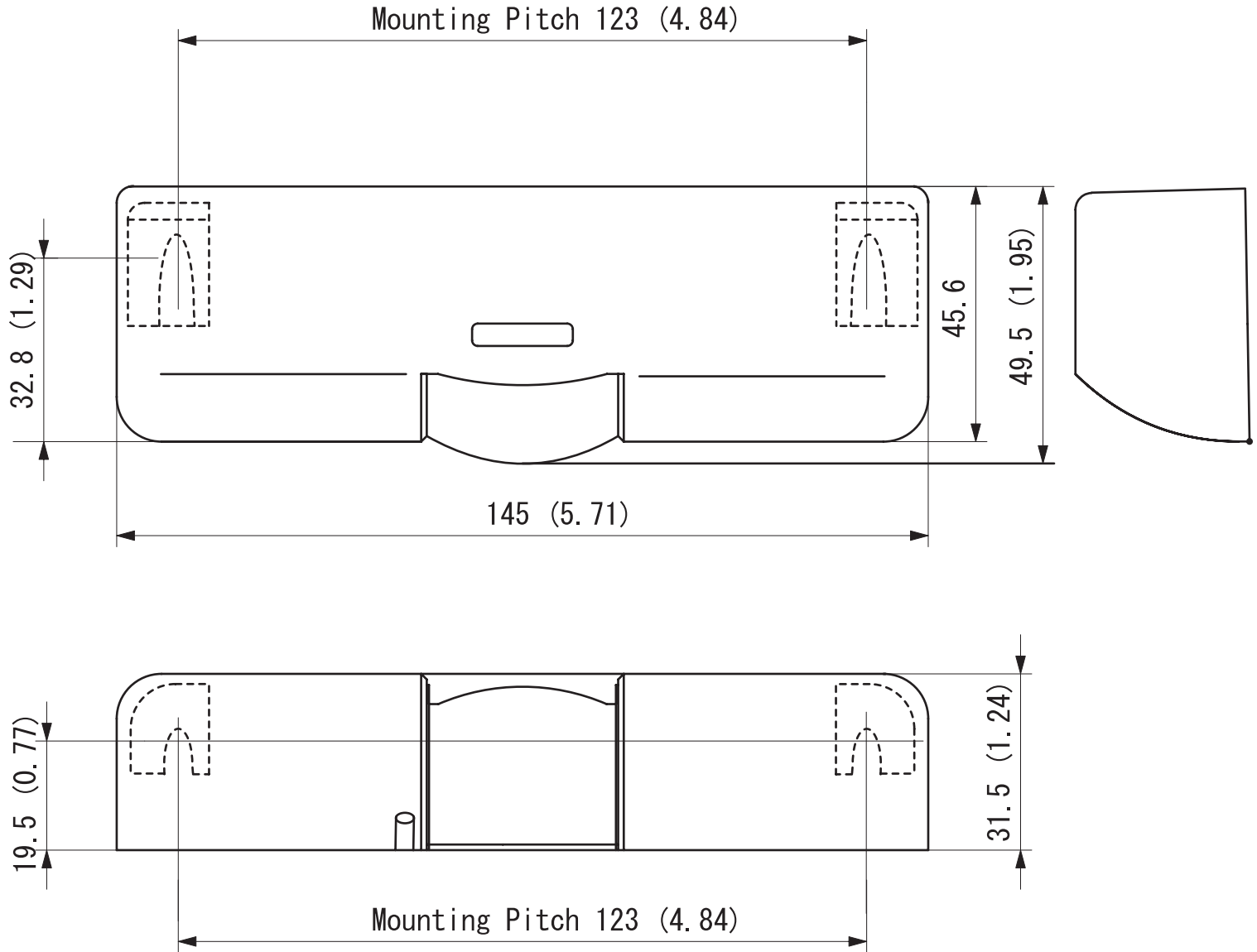
[m (ft)]



Mounting height A	2.50 (8.2)	3.00 (9.8)	4.00 (13.1)
Area width G	0.50 (1.6)	0.60 (2.0)	0.80 (2.6)
Area width H	1.50 (4.9)	1.80 (5.9)	2.50 (8.2)
Area width I	2.50 (8.2)	2.90 (8.5)	3.90 (12.8)
Area depth J	1.40 (4.6)	1.60 (5.2)	2.20 (7.2)
Area depth K	3.30 (10.8)	3.90 (12.8)	5.20 (17.1)
Area depth J	1.40 (9.8)	1.60 (12.1)	2.20 (16.1)
Area depth K	3.30 (16.4)	3.90 (19.7)	5.20 (26.6)

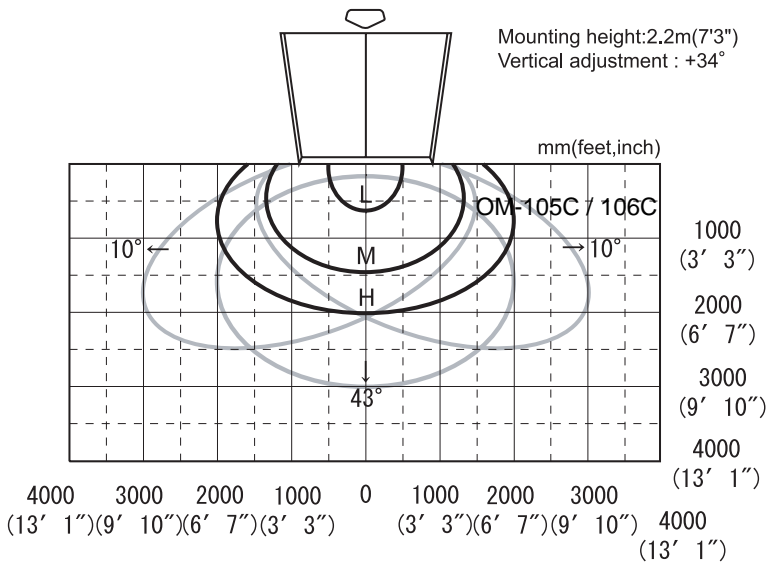
[m (ft)]

Model	: OA-08C
Mounting Height	: Max.4.0m
Detection Area Adjustments	: See Detection Area Sheet
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. 1.5sec.
Operating Temperature	: -20°C to +55°C
Dimensions	: 123 x 50 x 32mm(w x h x d)
Weight	: 90g
Accessories	: 2m Connection Cable 2 Mounting Screws Mounting Template Area Mask Seal
Accessories	: Silver (OP-08CS) Black (OP-08CBL) and White (OP-08CW)

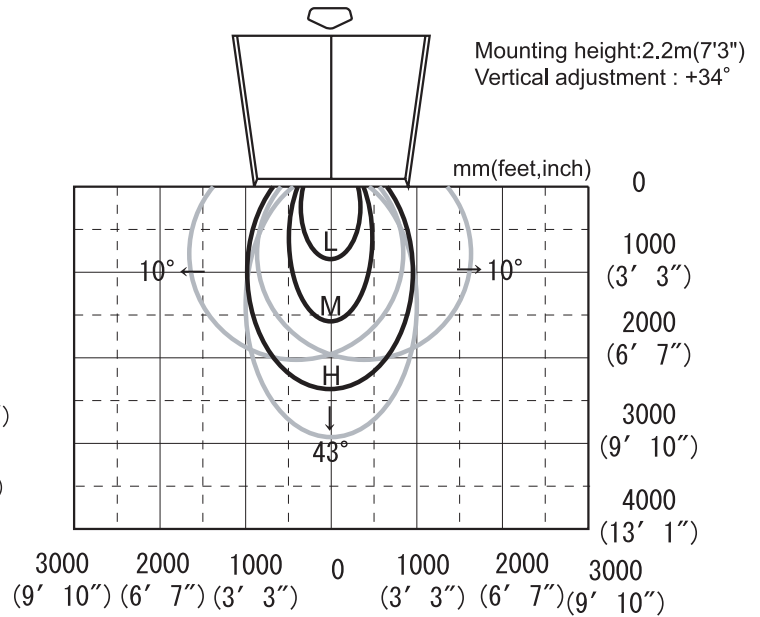


UNIT: mm (inch)

Wide area



Narrow area



Unit:mm(ft, inch)

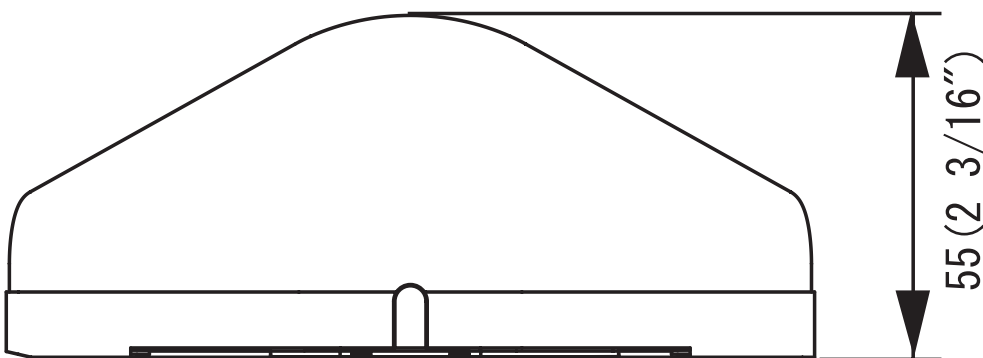
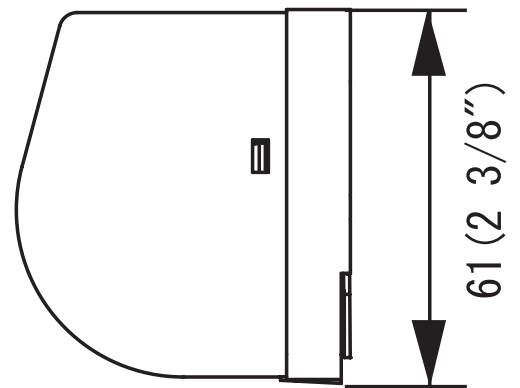
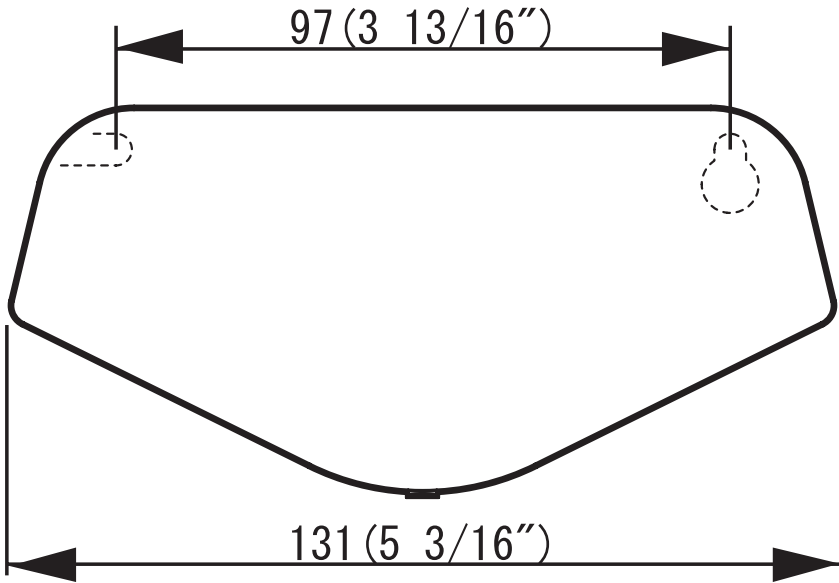
Sensitivity Potentiometer	WIDE AREA		NARROW AREA	
	Width	Depth	Width	Depth
High	4.0m (13' 2")	2.0m (6' 7")	2.0m (6' 7")	2.3m (7' 7")
Mid	2.6m (8' 6")	1.5m (4' 11")	1.0m (3' 3")	1.6m (5' 3")
Low	2.0m (6' 7")	0.6m (1' 12")	0.6m (1' 12")	0.8m (2' 7")

*The values are the reference and not guaranteed.

*The area position may differ according to the size / material / entry speed of object and the installation environment. (Especially, when the material of door, floor and surrounding wall is metallic, the area may be bigger.)

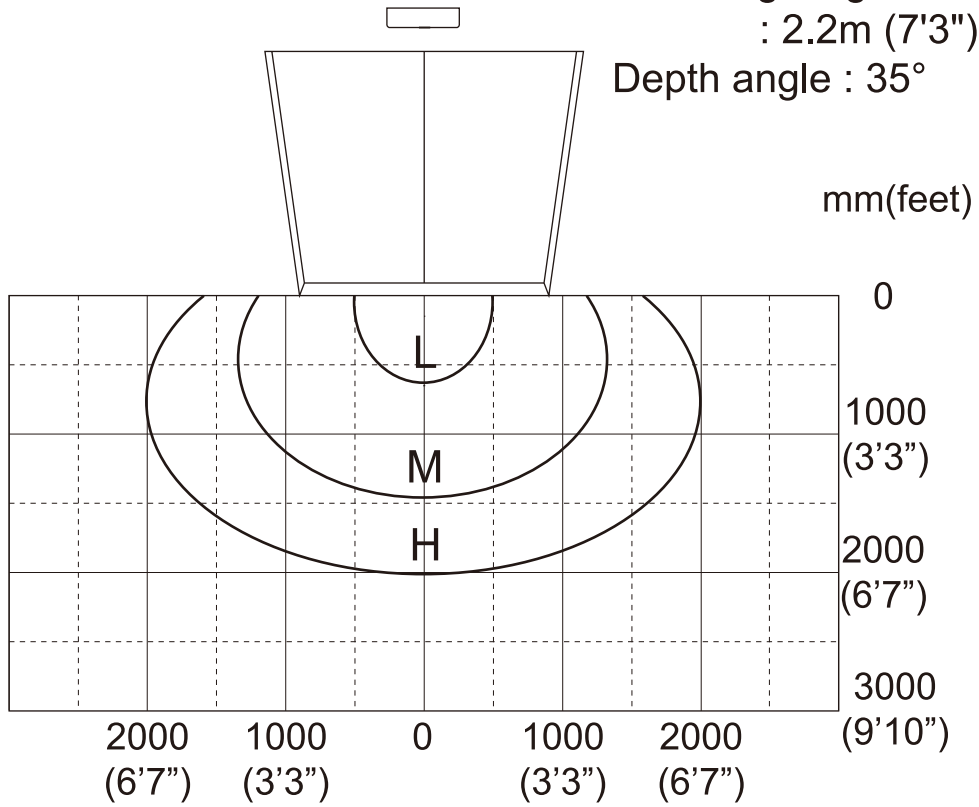
Model	: OM-105C / 106C
Cover color	: Silver / Black
Mounting height	: 2.0 (6'7") to 3.5m (11'5")
Detection method	: Microwave doppler effect
Power frequency	: 24.125GHz
Power density	: <20dBm
Detection area	: See Detection area
Vertical adjustment	: +10° to +70° (Header mount) +20° to +80° (Ceiling mount)
Horizontal adjustment	: 30° to left or right
Power supply	: 12 to 24VAC(±10%) 12 to 30VDC(±10%)
Power consumption	: < 1.5W(<2VA at AC)
Minimum speed	: 5cm(1 15/16")/sec.
Operation indicator	: Green / Stand-by Red / Detection Green blinking / Set-up
Output	: Form C relay 50V 0.3A Max.(Resistance load)
Output hold time	: 0.5sec. / 2.0sec.
Response time	: <0.3 sec.
Operating humidity	: <80%
Operating temperature	: -20°C to +55°C(-4°F to 131°F)
IP rate	: IP54
Weight	: 140g (4.9oz)
Accessories	: 1 Cable 3m (9'10") 1 Operation manual 2 Mounting screws 1 Mounting template 1 Narrow lens*

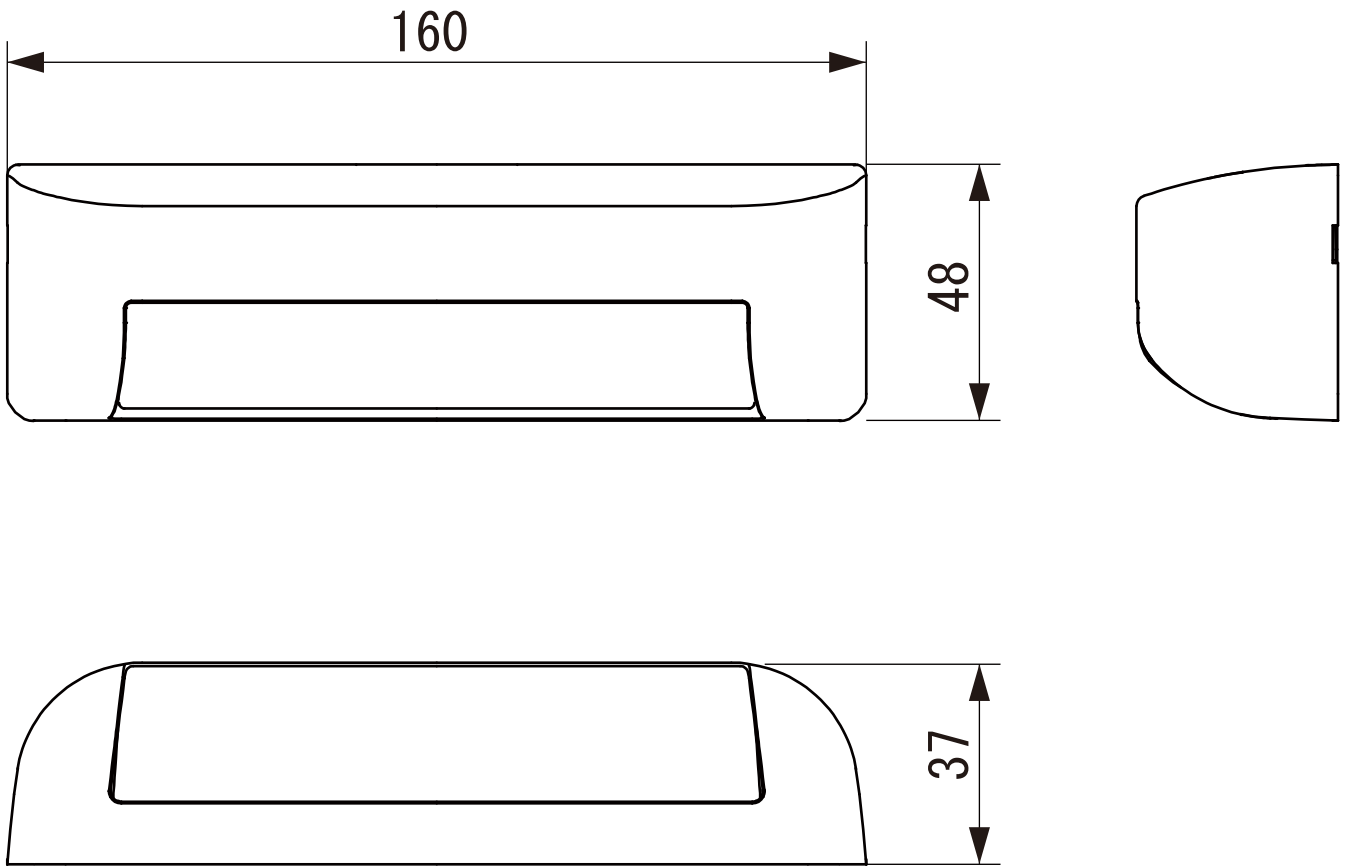
* At the back of housing cover



Unit:mm (inch)

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

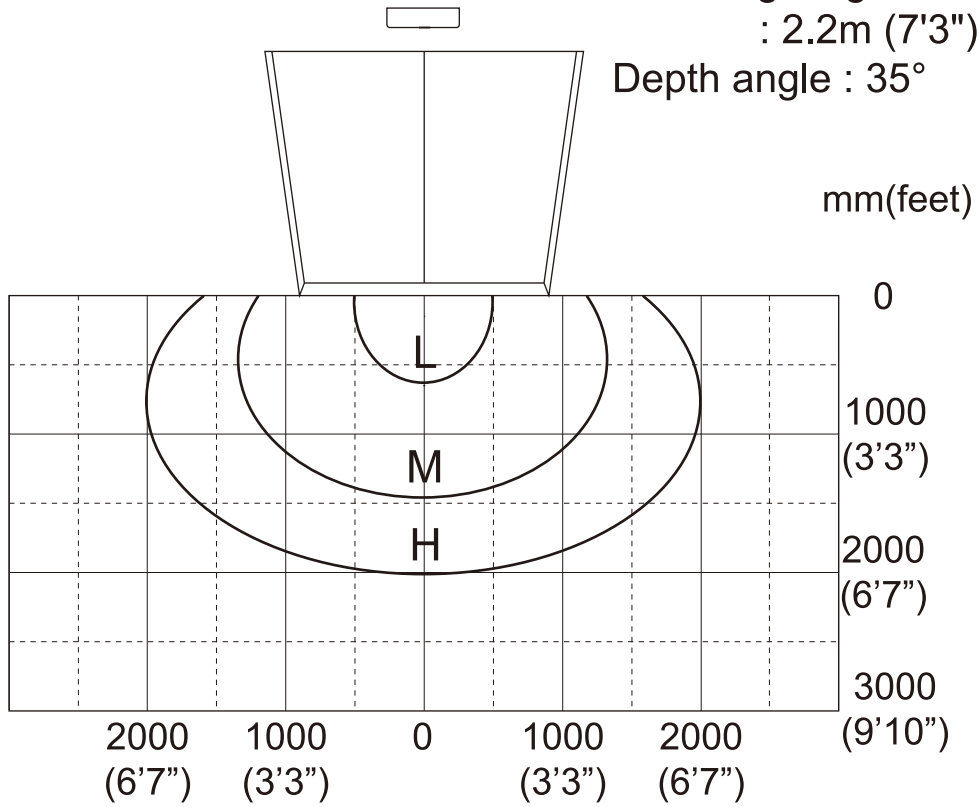


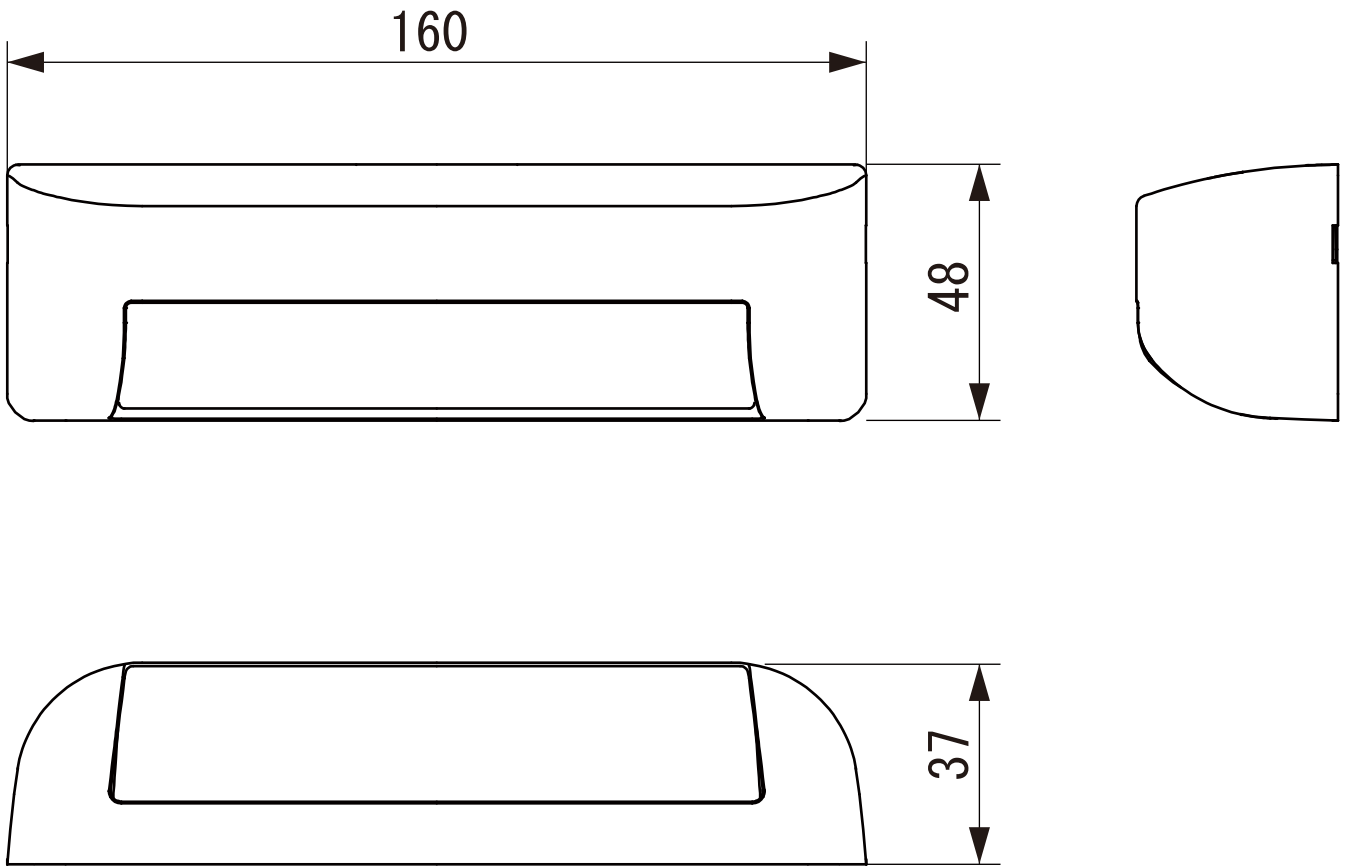


[mm]

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
Minimum detection speed	<20dBm
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	<0.3sec.
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

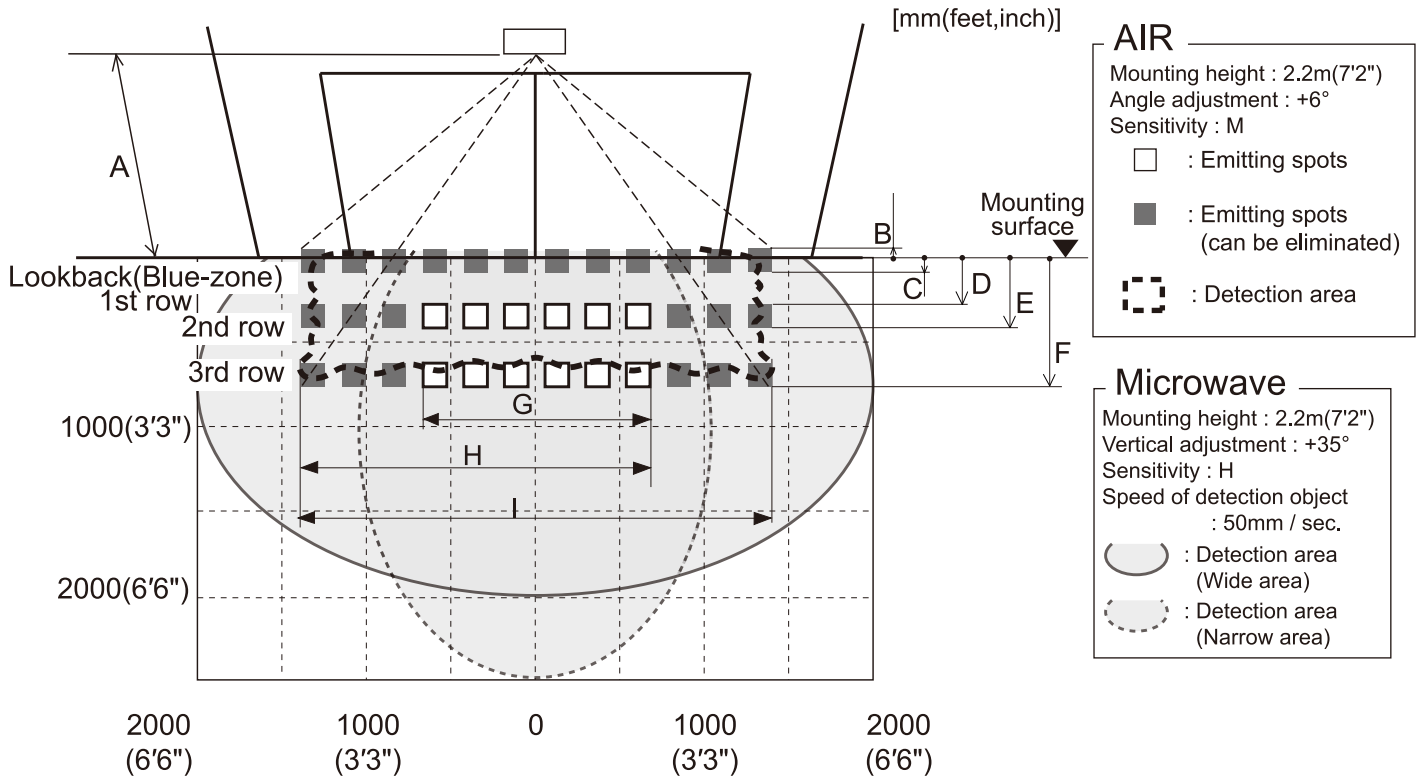
Mounting height
: 2.2m (7'3")
Depth angle : 35°





[mm]

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
Minimum detection speed	<20dBm
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	<0.3sec.
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

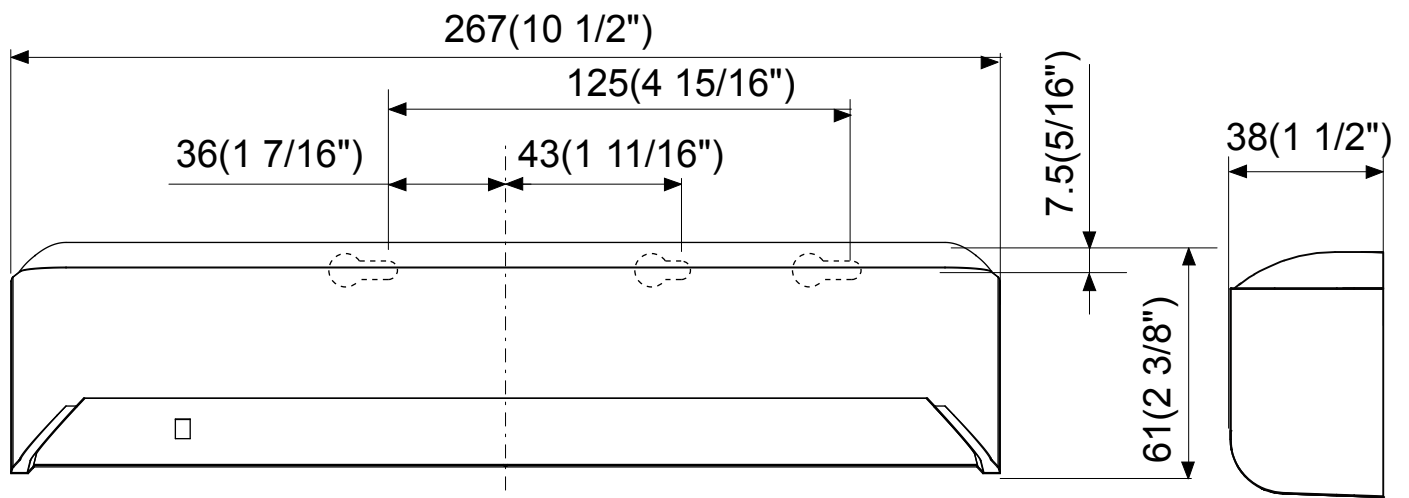


AIR emitting area

The chart shows the values at depth angle +6°

[m(feet,inch)]

A	2.00 (6'6")	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")	1.38 (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 (12'5")	4.42 (14'6")



[mm (inch)]

Model	: OAM-DUAL T / TV / TF	Safety / test output	: Opto coupler (NPN) Voltage 5 to 50VDC Current 100mA Max. Dark current 600nA Max. (resistance load)
Cover color	: Black	Noise level	: <70dBA
Mounting height	: 2.0 (6'6") to 3.5m (11'6")	Output hold time	: <0.5 sec.
Detection area	: See DETECTION AREA	Response time	: <0.3 sec.
Detection method	: Active infrared reflection *1 Microwave doppler effect	Operating temperature	: -20 to +55°C (-4 to 131°F)
Depth angle	: AIR area -6 to +6° adjustment Microwave area +25 to +45°	Operating humidity	: <80%
Power supply *2	: 12 to 24VAC ±10% (50 / 60 Hz) 12 to 30VDC ±10%	IP rate	: IP54
Power consumption	: < 2.5W (< 4VA at AC)	Category	: See Table 1
Operation indicator	: See Operation indicator table	Performance level	: See Table 1
Test input	: Opto coupler Voltage 5 to 30VDC Current 6mA Max. (30VDC)	Weight	: 320g (11.2oz)
Activation output	: See INSTALLATION 2	Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 3m (9'10") (8 × 0.22mm ² AWG24) *3

Table 1		OAM-DUAL T	OAM-DUAL TV	OAM-DUAL TF
AIR part	Cat.	2 (EN ISO13849-1 : 2008)		
	PL	d (EN ISO13849-1 : 2008)		
Microwave part	Cat.		2 (EN ISO13849-1 : 2008)	
	PL		d (EN ISO13849-1 : 2008)	

Operation indicator table

Status	Operation indicator color	
Set-up	Yellow blinking	
Stand-by (installation mode)	Yellow	
Stand-by (operation mode)	Green	
Lookback (1st row) detection*4	Blue	
2nd row detection	Red blinking	
3rd row detection	Red	
Microwave detection	Orange	
Setting error	Red & green blinking	
Signal saturation	Slow green blinking	
Sensor failure	Fast green blinking	

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

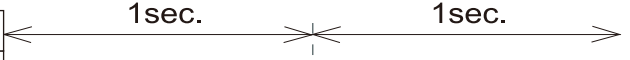

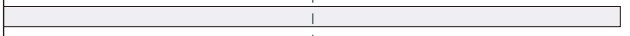






*2 : The sensor has to be connected to a door system which has a SELV circuit.

*3 : Overcurrent protection with less than 2A.

*4 : See **LOOKBACK AREA**

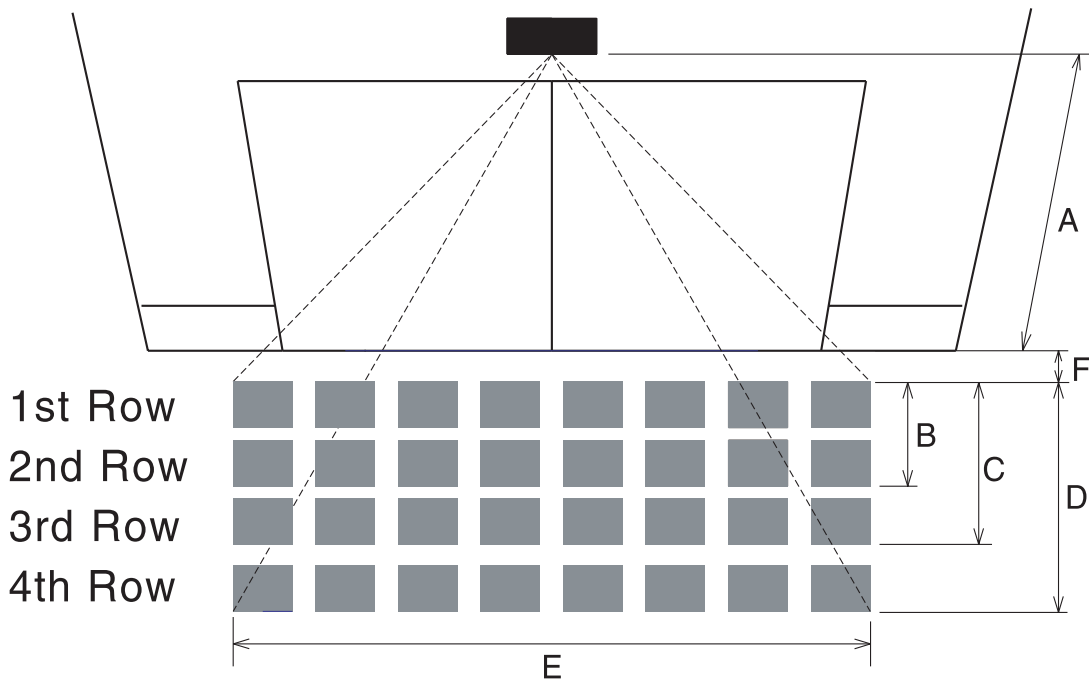
Model	: X-ZONE	Safety output	: Form C relay
Cover color	: Black		: 50V 0.3A Max.(Resistance load)
Mounting height	: 2.0 (6'6") to 3.5m (11'6")	Output hold time	: <0.5 sec.
Detection area	: See DETECTION AREA	Response time	: <0.3 sec.
Detection method	: Active infrared reflection*1	Operating temperature	: -35 to +55°C (-31 to 131°F)
	Microwave doppler effect	Operating humidity	: <80%
Depth angle	: AIR area -6 to +6°	IP rate	: IP54
adjustment	Microwave area +25 to +45°	Weight	: 320g (11.2oz)
Power supply	: 12 to 24VAC ±10% (50 / 60 Hz)	Accessories	: 1 Operation manual
	12 to 30VDC ±10%		2 Mounting screws
Power consumption	: < 2.5W (< 4VA at AC)		1 Mounting template
Operation indicator	: See Operation indicator table		1 Area adjustment tool
Activation output	: Form C relay		1 Cable 3m (9'10")
	50V 0.3A Max.(Resistance load)		1 Narrow lens

Operation indicator table

Status	Operation indicator color	
Set-up	Yellow blinking	
Stand-by (installation mode)	Yellow	
Stand-by (operation mode)	Green	
Blue-zone (1st row) detection*2	Blue	
2nd row detection	Red blinking	
3rd row detection	Red	
Microwave detection	Orange	
Signal saturation	Slow green blinking	
Sensor failure	Fast green blinking	

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

*2 : See **BLUE-ZONE**



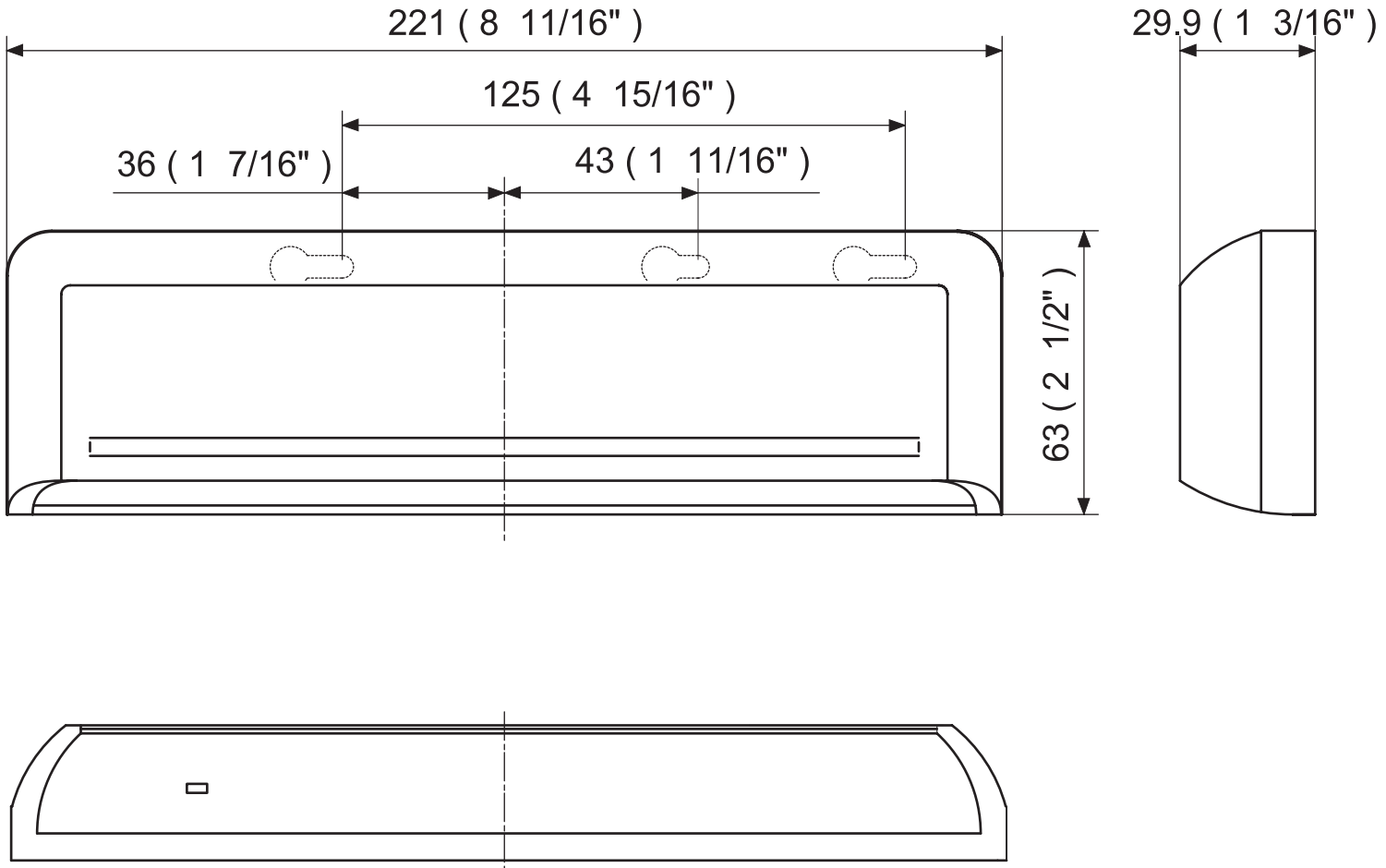
[m]

A	2.00	2.20	2.50	2.70	3.00
B	0.28	0.31	0.35	0.38	0.41
C	0.68	0.75	0.85	0.92	1.02
D	1.18	1.30	1.48	1.59	1.77
E	2.10	2.30	2.60	2.80	3.10
F	0.16	0.18	0.20	0.22	0.25

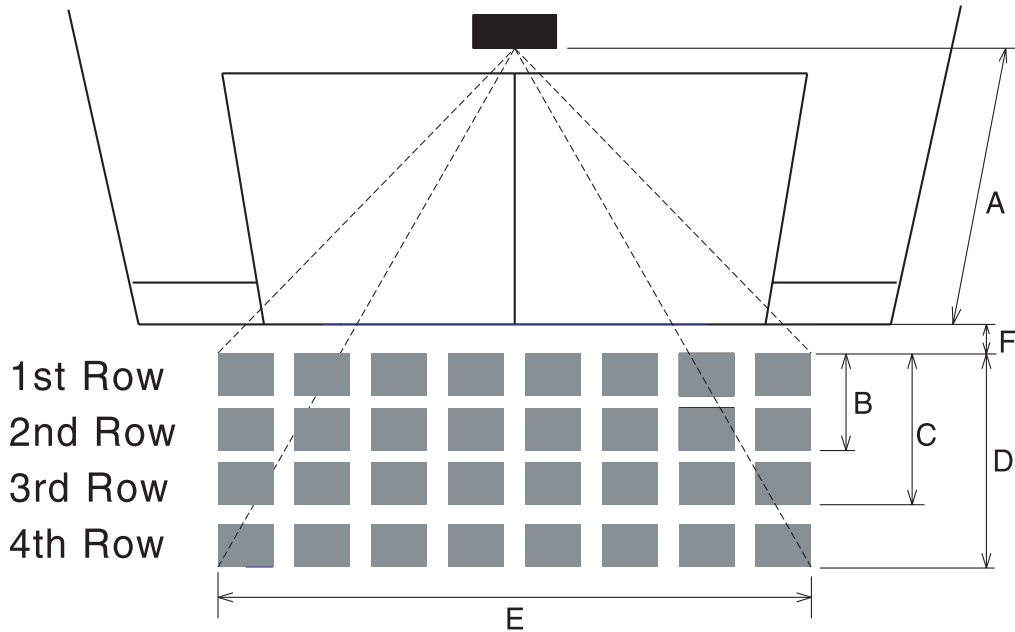
[feet , inch]

A	6' 6 3/4"	7' 2 5/8"	8' 2 7/16"	8' 10 5/16"	9' 10 1/8"
B	11"	1' 3/16"	1' 1 3/4"	1' 2 15/16"	1' 4 9/16"
C	2' 2 3/4"	2' 5 1/2"	2' 9 9/16"	3' 1/4"	3' 4 3/16"
D	3' 10 7/16"	4' 3 3/16"	4' 10 1/4"	5' 2 5/8"	5' 9 11/16"
E	6' 10 11/16"	7' 6 9/16"	8' 6 3/8"	9' 2 1/4"	10' 2 1/16"
F	6 5/16"	7 1/16"	7 7/8"	8 11/16"	9 13/16"

Model	: OA-203C
Cover color type	: Silver / Black / White
Mounting Height	: 3.0m (9'10") Max.
Detection Area	: See "Detection Area"
Detection Method	: Active Infrared Reflection Method
Detection Angle Adjustments	: $\pm 4^\circ$ adjustable by 1° every one click (Deep / Shallow)
Detection Width Adjustments	: $\pm 7^\circ$ adjustable by 3.5° every one click (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 / Other Row Detection Active
Output	: "Form C" relay 50V 0.3A Max. (Resistance Load)
Relay Hold Time	: 0.5 sec.
Response Time	: < 0.3 sec.
Operating Temperature	: -20°C to $+55^\circ\text{C}$ (-4°F to $+131^\circ\text{F}$)
Weight	: 200g (7.1oz)
Accessories	: 1 Cable 3m (9'10") 2 Mounting Screws 1 Operation Manual 1 Mounting Template 1 Area Adjustment Tool



UNIT : mm (inch)



[m]

A	2.00	2.20	2.50	2.70	3.00
B	0.42	0.47	0.53	0.57	0.64
C	0.85	0.94	1.07	1.15	1.28
D	1.50	1.65	1.88	2.03	2.25
E	2.07	2.28	2.59	2.80	3.11
F	0.21	0.23	0.26	0.28	0.31

[feet , inch]

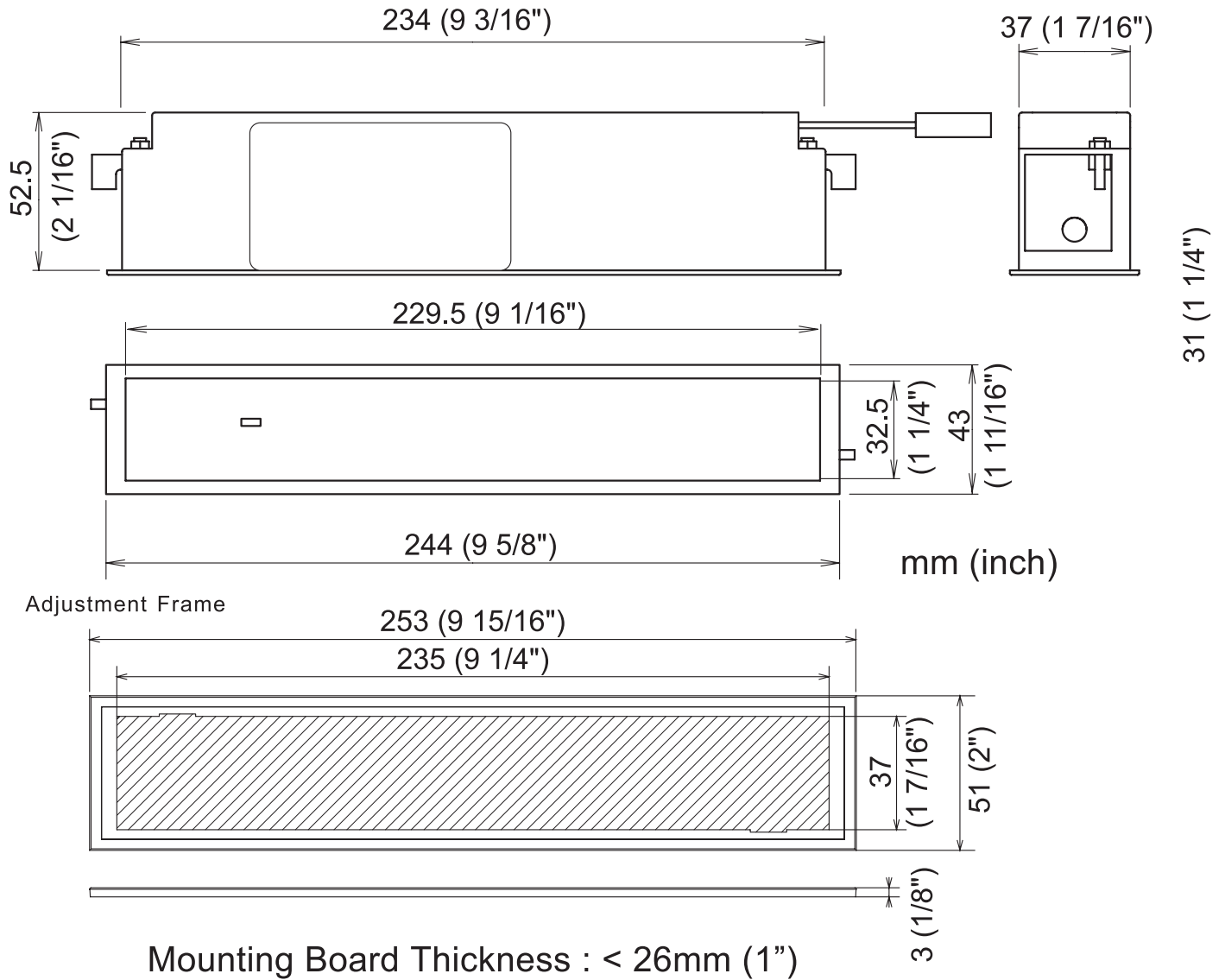
A	6' 6 3/4"	7' 2 5/8"	8' 2 7/16"	8' 10 5/16"	9' 10 1/8"
B	1' 4 11/16"	1' 6 3/8"	1' 8 7/8"	1' 10 1/2"	2' 1"
C	2' 9 5/8"	3' 15/16"	3' 6"	3' 9 3/8"	4' 2 3/8"
D	4' 11 1/8"	5' 5 1/16"	6' 1 7/8"	6' 7 13/16"	7' 4 11/16"
E	6' 9 5/8"	7' 5 3/4"	8' 6"	9' 2 3/16"	10' 2 3/8"
F	8 1/8"	8 15/16"	10 3/16"	11"	1' 3/16"

Model	: MIRAGE
Cover color type	: Black
Mounting Height	: 3.0m (9'10") Max.
Detection Area	: See "Detection Area"
Detection Method	: Active Infrared Reflection Method
Detection Angle	: $\pm 4^\circ$ adjustable by 1° every one click
Adjustments	(Deep / Shallow)
Detection Width	: 4 type selectable with Adjustment Shutters
Adjustments	(Not angle adjustment)
Power Supply	: 12 to 30V AC / DC
Current Draw	: 200mA Max. (At 12V AC)
Operation Indicator	: Green / Stand-by Red / 1st Row Detection Active

Output	: "Form C" relay 50V 0.3A Max. (Resistance Load)
Relay Hold Time	: 0.5 sec.
Response Time	: < 0.3 sec.
Operating Temperature	: -20°C to +55°C (-4°F to +131°F)
Weight	: 260g (9.2oz)
Accessories	: 1 Cable 3m (9'10") 1 Operation Manual 1 Area Adjustment Tool 1 Adjustment Frame Tool

OUTER DIMENSIONS Active Infrared Sensor

MIRAGE

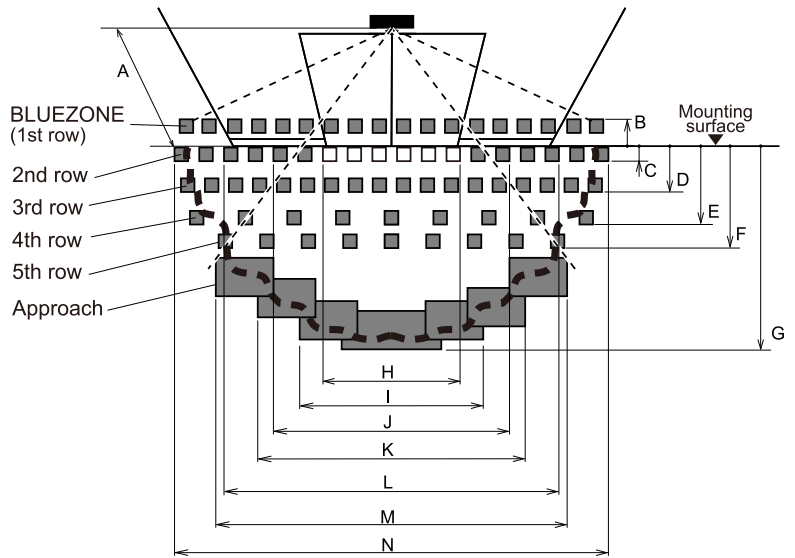


UNIT : mm (inch)

The chart shows the values at depth angle 0°

Emitting area [feet,inch(m)]

A	7'3" (2.20)	8'2" (2.50)	9'10" (3.00)
B	1' (0.31)	1'2" (0.36)	1'5" (0.43)
C	7" (0.17)	8" (0.20)	9" (0.24)
D	1'9" (0.53)	2' (0.61)	2'5" (0.73)
E	3' (0.91)	3'5" (1.04)	4'1" (1.25)
F	3'11" (1.19)	4'5" (1.35)	5'4" (1.62)
G	8'6" (2.60)	9'8" (2.95)	11'8" (3.54)
H	5'3" (1.60)	6' (1.82)	7'2" (2.18)
I	7' (2.14)	8' (2.44)	9'7" (2.92)
J	9'1" (2.76)	10'3" (3.13)	12'4" (3.76)
K	10'3" (3.12)	11'8" (3.55)	14' (4.26)
L	12'10" (3.91)	14'7" (4.45)	17'6" (5.34)
M	13'6" (4.10)	15'4" (4.66)	18'4" (5.60)
N	16'8" (5.07)	18'11" (5.76)	22'8" (6.91)



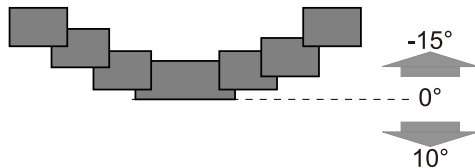
- : Emitting spots
- : Emitting spots (can be eliminated)
- : Detection area

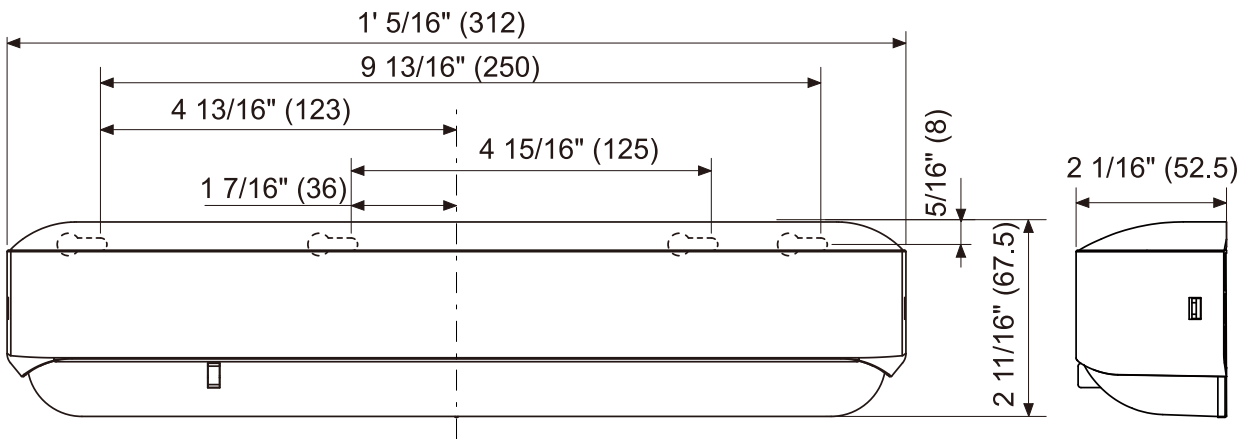
Emitting area (Approach)

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

	-15°	0°	+10°
G	5' (1.53)	8'6" (2.60)	12'5" (3.77)
I	5'10" (1.79)	7' (2.14)	8'6" (2.59)
K	8'10" (2.70)	10'3" (3.12)	12' (3.65)
M	12'1" (3.67)	13'6" (4.10)	15'3" (4.65)

- | | |
|-----------------|-------------------------------|
| Approach | : Motion detection |
| 5th row | : Motion detection |
| 1st to 4th rows | : Motion / Presence detection |












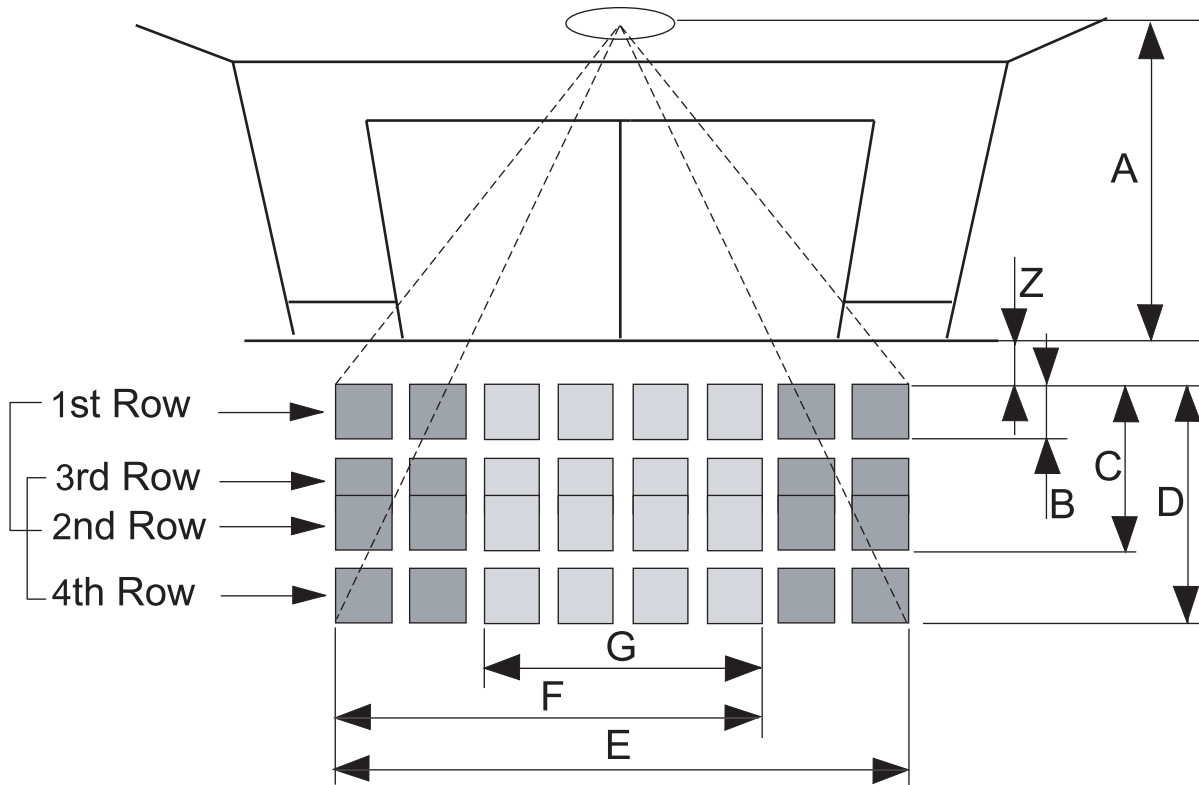


[inch (mm)]

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

Operation indicator table

Status	Operation indicator color	
Stand-by (installation mode)	Yellow	
Stand-by (operation mode)	Green	
BLUEZONE (1st row) detection(*1)	Blue	
2nd row detection	Red blinking	
3rd/4th row detection	Red	
5th row detection	Orange	
Approach detection	Orange blinking	
Signal saturation	Slow Green blinking	
Sensor failure	Fast Green blinking	



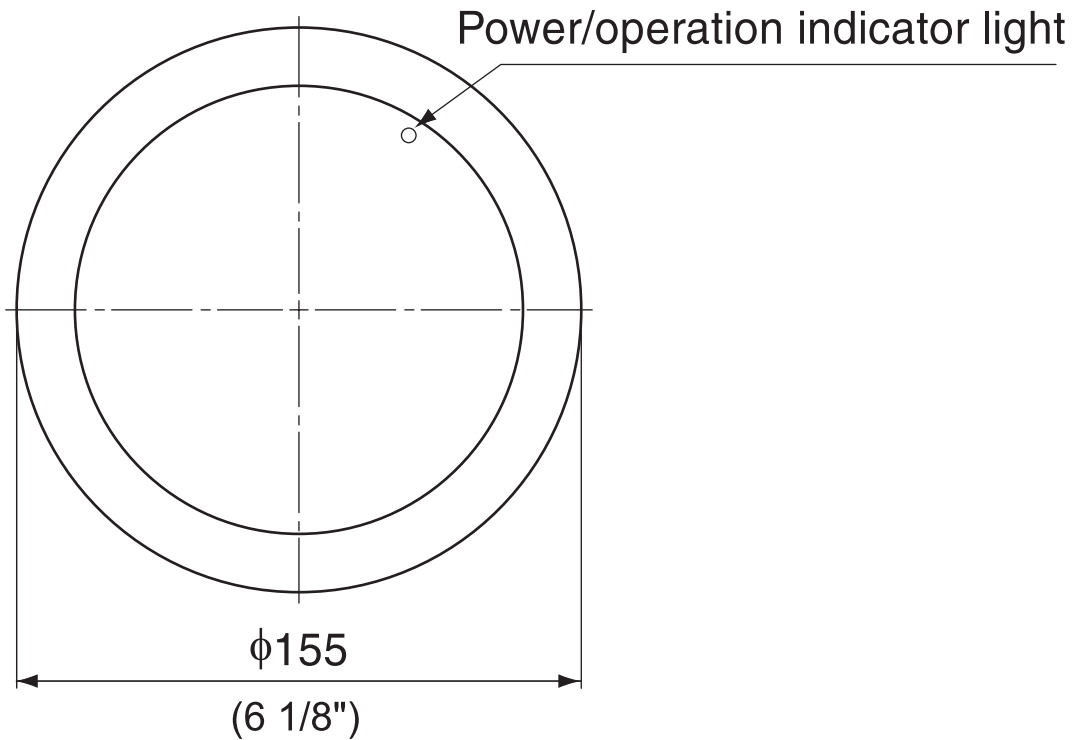
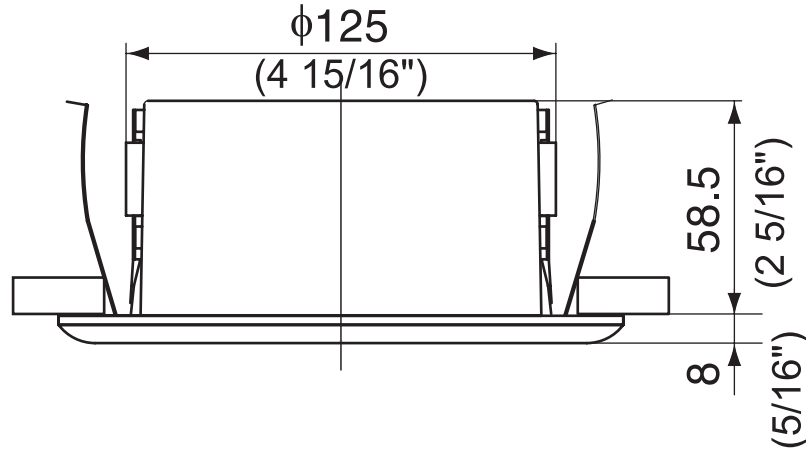
[mm / ft,inch]

Mounting height A		2200 7'2 5/8"	2500 8'2 7/16"	3000 9'10 1/8"	3500 11'5 13/16"	4000 13'1 1/2"
Depth	B	390 1'1 3/8"	440 1'5 5/16"	530 1'8 7/8"	620 2' 7/16"	710 2' 3 15/16"
	C	770 2'6 5/16"	860 2'9 7/8"	1030 3'4 9/16"	1200 3'11 1/4"	1380 4'6 5/16"
	D	960 3'1 13/16"	1090 3'6 15/16"	1310 4'3 9/16"	1530 5' 1/4"	1750 5'8 7/8"
Width	E	2200 7'2 5/8"	2520 8'3 3/16"	3030 9'11 5/16"	3540 11'7 3/8"	4040 13'3 1/6"
	F	1780 5'10 1/16"	2030 6'7 15/16"	2440 8' 1/16"	2850 9'4 3/16"	3250 10'7 15/16"
	G	1320 4'3 15/16"	1500 4'11 1/16"	1800 5'10 7/8"	2100 6'10 11/16"	2400 7' 10 1/8"
Distance to the door	Z	160 6 5/16"	100 3 15/16"	60 2 3/8"	10 3/8"	-20* -13/6"

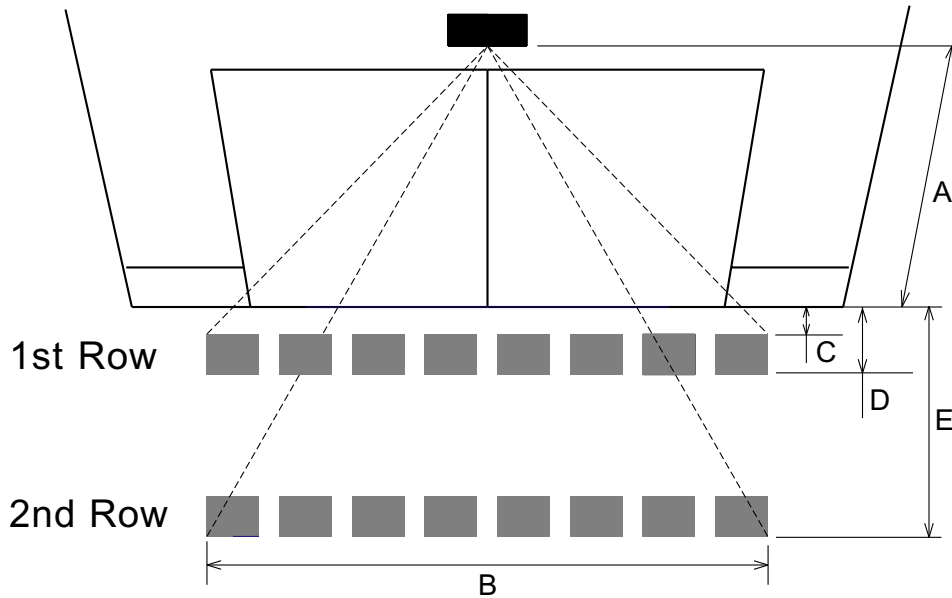
Model	: OA-70C
Cover Colour	: Silver/White
Mounting Height	: 2.0(6'6 3/4") to 4.0(13'1 1/2")m
Detection Area	: See the chart in ADJUSTMENT
Detection Method	: Active Infrared Reflection
Detection Area	: Depth -6° to 8°
Adjustments	Width -10° to +10°
Power Supply	: 12(-5%) to 24V(+10%) AC 12(-5%) to 30V(+10%) DC
Power Consumption	: <4VA, <200mA(12VDC)
Operation Indicator	: Green: Stand-by Red: 1st Row Detection Active Orange: 2nd-4th Row Detection Active
Output	: "Form C" relay 50V 0.3A max. (resistance load)
Relay Hold Time	: Approx. 0.5 sec.
Response Time	: <0.3sec
Operating Temperature	: -20°C to +55°C (-4° F to +131°F)
Weight	: 340g (12oz)
Accessories	: 1 Mounting Template, 1 Cable 3m(9'10"), 1 Operation Manual

Recommended diameter of a mounting hole: $\phi 130\text{mm}$

Required ceiling thickness for mounting: 2 to 24mm

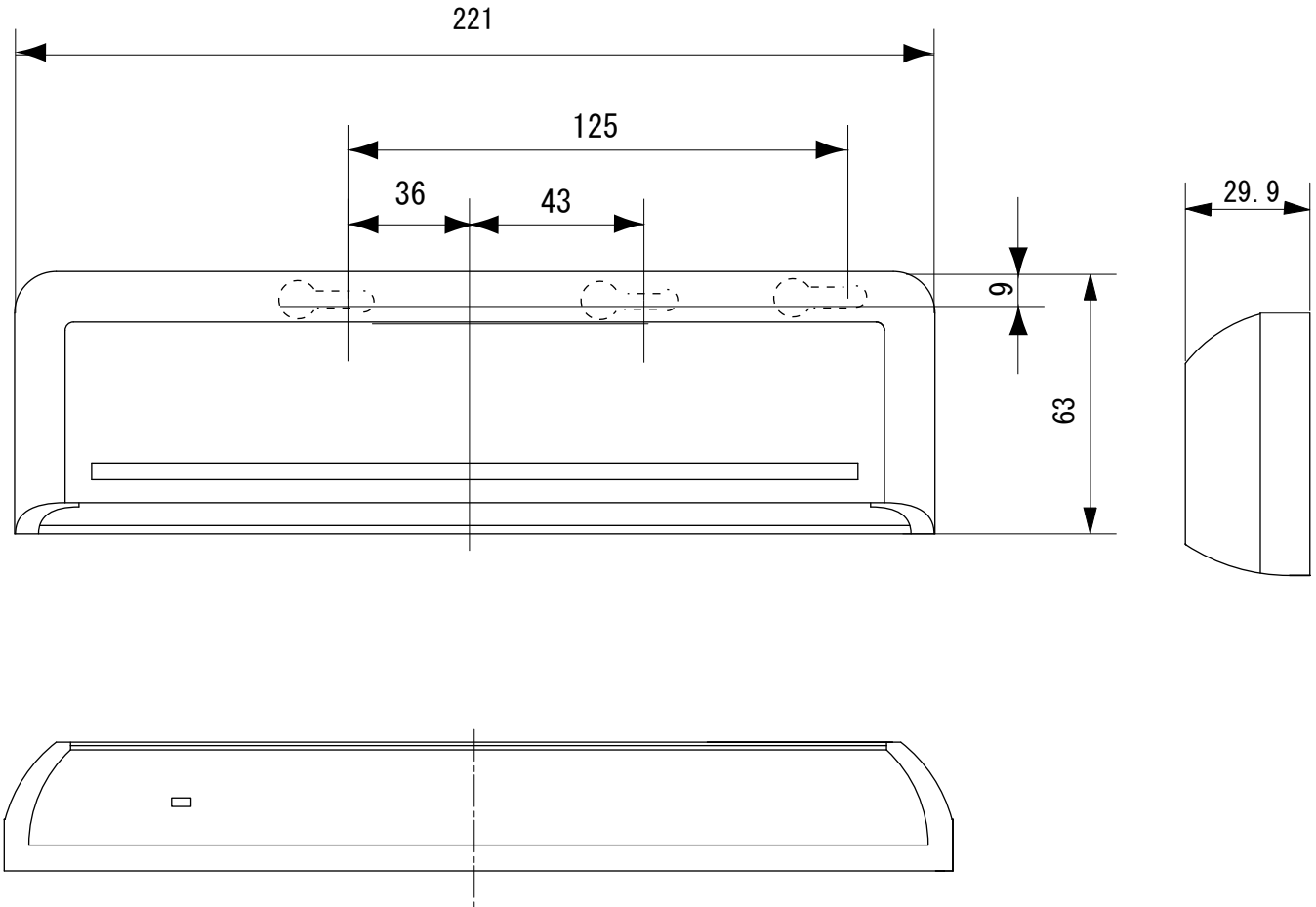


UNIT : mm (inch)

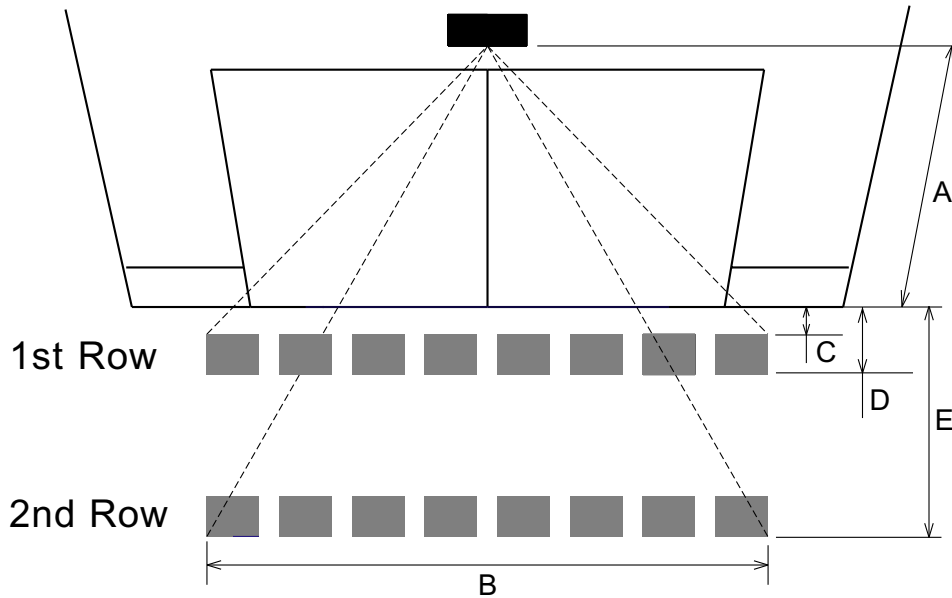

 (m
feet,inch)

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 2'10 1/4"	1.68 5'6 1/8"	1.81 5'11 1/4"	2.02 6'7 1/2"

Model	: OA-203C-2
Cover Color	: Silver / Black
Mounting Height	: 3.0m(9'10") Max.
Detection Method	: Active Infrared Reflection Method
Detection Angle Adjustment	: $\pm 4^\circ$ adjustable by 1° every one click (Deep / Shallow)
Detection Width Adjustment	: $\pm 7^\circ$ adjustable by 3.5° every one click
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
Output	: "Form C" relay 50V 0.3A Max.
Relay Hold Time	: Approx. 0.5 sec.
Response Time	: <0.3 sec.
Operating Temperature	: -20°C to $+55^\circ\text{C}$ (-4°F to $+131^\circ\text{F}$)
Weight	: 200g(7.1oz)
Accessories	: 1 Cable 3m (9'10") 2 Mounting Screws 1 Operation Manual 1 Mounting Temperature 1 Area Adjustment Tool



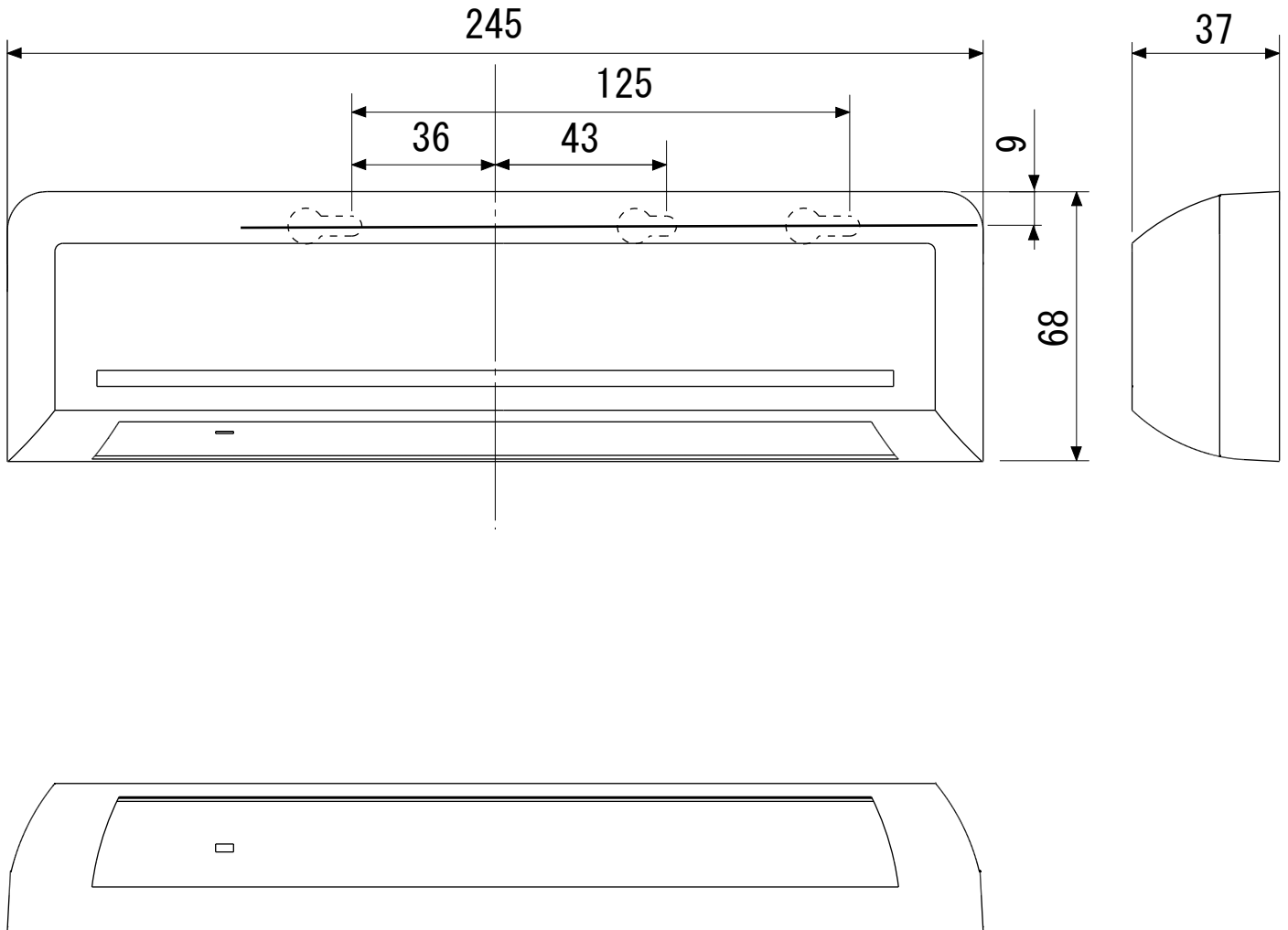
Unit:mm



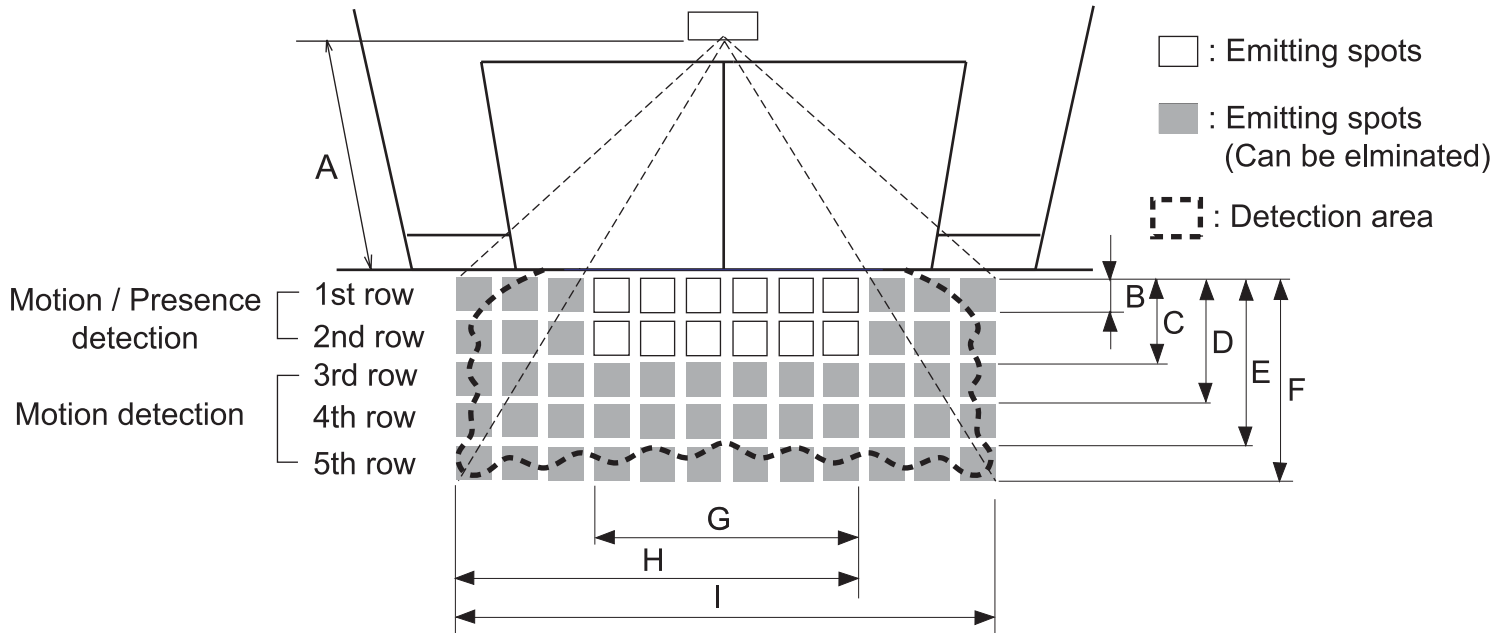
(m
feet,inch)

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	0.27 10 5/8"	0.29 11 7/16"	0.33 1'1"	0.36 1'2 3/16"	0.40 1'3 3/4"
E	1.34 4'4 3/4"	1.47 4'10 1/4"	1.68 5'6 1/8"	1.81 5'11 1/4"	2.01 6'7 1/8"

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 Adjustment	: Base Angle / 0° to 10° Adjustment Screw Angle / $\pm 4^\circ$ adjustable by 1° every one click (Deep / Shallow)
Detection Width Adjustment	: Adjustment Screw Angle / $\pm 7^\circ$ 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
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 (-4F° to +131F°)
Weight	: 230g(8.2oz)
Accessories	: 1 Cable 3m (9'10") 2 Mounting Screws 1 Operation Manual 1 Mounting Temperature 1 Area Adjustment Tool 1 Protection sheet



Unit:mm



OA-AXIS I / II

[m(feet,inch)]

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

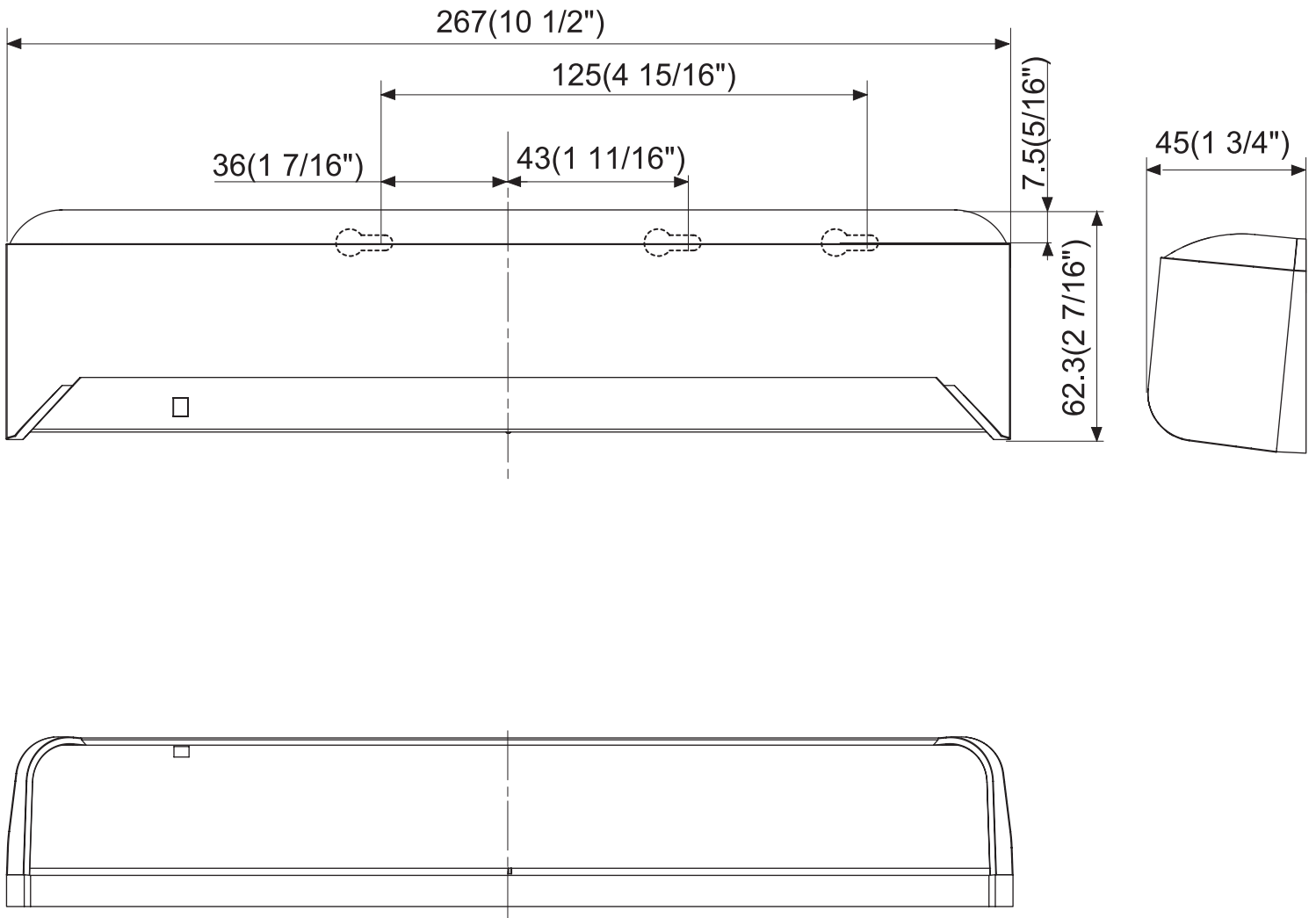
*OA-AXIS I / II Only

Model	: OA-AXIS I / OA-AXIS II
Cover color	: Silver / Black
Mounting height	: 2.0 (6'7") to 3.5m (11'5")
Detection area	: See DETECTION AREA
Detection method	: Active infrared reflection
Depth angle adjustment	: 1st to 3rd rows / -6° to $+6^{\circ}$ 4th and 5th rows / $+26^{\circ}$ to $+44^{\circ}$
Power supply	: 12 to 24VAC ($\pm 10\%$) 12 to 30VDC ($\pm 10\%$)
Power consumption	: OA-AXIS I <3VA OA-AXIS II <4VA
Operation LED	: Green / Stand-by Blinking Red / 1st row detection Red / 2nd row detection Orange / 3rd to 5th rows detection
Output	: OA-AXIS I / Form C relay 50V 0.3A Max.(Resistance load) OA-AXIS II / 1st to 3rd rows / Form C relay 50V 0.3A Max.(Resistance load) 3rd to 5th rows / Form C relay 50V 0.3A Max.(Resistance load)
Output hold time	: Approx. 0.5 sec.
Response time	: <0.3 sec.
Operating temperature	: -20°C to $+55^{\circ}\text{C}$ (-4°F to $+131\text{ F}$)
IP rate	: IP44
Weight	: 320g(11.2oz)
Accessories	: 1 Cable 3m (9'10") 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool

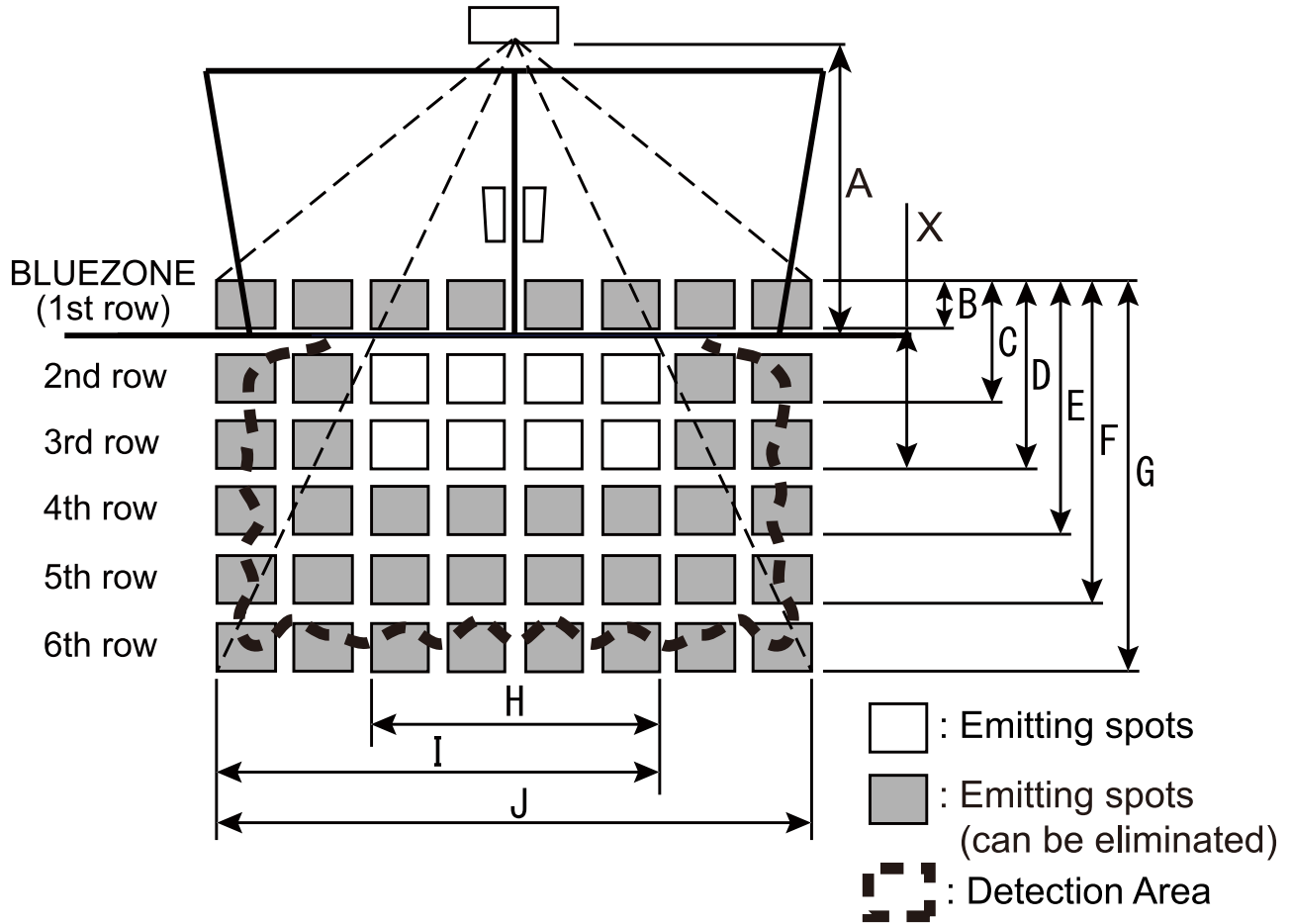
Model	: OA-AXIS T
Cover color	: Silver / Black
Mounting height	: 2.0 (6'6") to 3.0m (9'10")
Detection area	: See DETECTION AREA
Detection method	: Active infrared reflection
Depth angle adjustment	: 1st to 3rd rows / -6° to $+6^{\circ}$ 4th and 5th rows / $+26^{\circ}$ to $+44^{\circ}$
Power supply	: 12 to 24VAC $\pm 10\%$ (50 / 60Hz) 12 to 30VDC $\pm 10\%$
Power consumption	: $<2.5W$ ($<4VA$ at AC)
Test input	: Opto coupler Voltage / 5 to 30 VDC Current / 6mA Max. (30VDC)
Activation output	: When 3rd, 4th or 5th row detects. Form A relay 50V 0.3A Max.(Resistance load)
Test input	: Opto coupler Voltage / 5 to 30 VDC Current / 6mA Max. (30VDC)
Activation output	: When 3rd, 4th or 5th row detects. Form A relay 50V 0.3A Max. (Resistance load)
Safety / Test output	: When 1st or 2nd row detects. Opto coupler (NPN) Voltage / 5 to 50VDC Current / 100mA Max. Dark current / 600nA Max. (Resistance load)
Output hold time	: Approx. 0.5 sec.
Response time	: <0.3 sec.
Operating temperature	: $-20^{\circ}C$ to $+55^{\circ}C$ ($-4^{\circ}F$ to $+131 F$)
Operating humidity	: $<80\%$
IP rate	: IP44
Category	: 2(ISO 13849-2 : 2003)
Weight	: 320g(11.2oz)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 3m(9'10") (8 x 0.29mm ² AWG24)

OUTER DIMENSIONS

Active Infrared Sensor OA-AXIS I / II / T



UNIT: mm (inch)

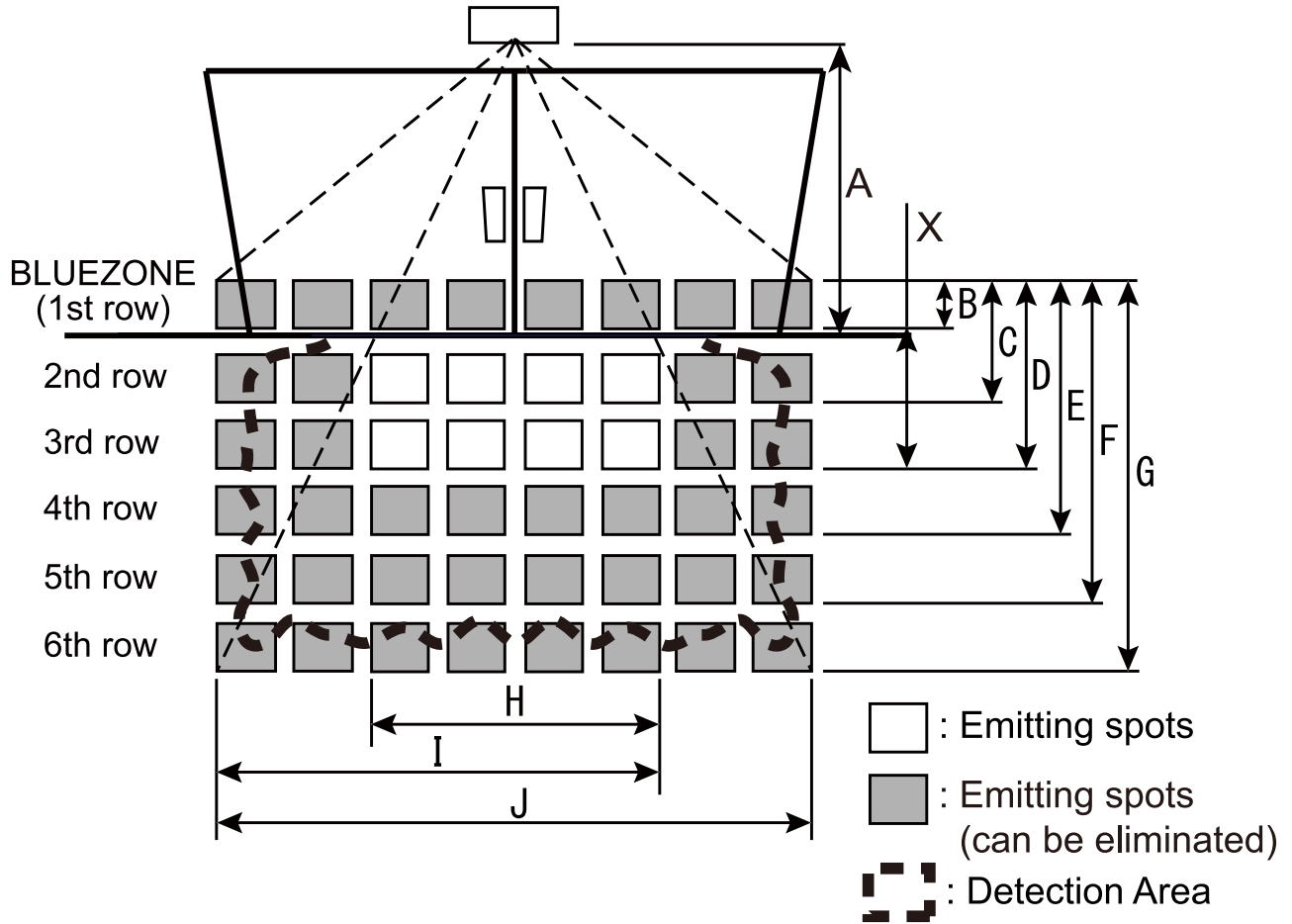


Emitting area

[m (feet,inch)]

A	2.00 (6'7")	2.30 (7'7")	2.50(8'2")
B	0.13 (5")	0.16 (6")	0.17 (7")
C	0.38 (1'3")	0.46 (1'6")	0.50 (1'8")
D	0.71 (2'4")	0.86 (2'10")	0.94 (3'1")
E	0.84 (2'9")	1.01 (3'4")	1.09 (3'7")
F	1.34 (4'5")	1.62 (5'4")	1.76 (5'9")
G	1.75 (5'9")	2.11 (6'11")	2.29 (7'6")
H	0.92 (3')	1.11 (3'8")	1.20 (3'11")
I	1.49 (4'11")	1.80 (5'11")	1.95 (6'5")
J	2.06 (6'9")	2.48 (8'2")	2.69 (8'10")

Charts show the values in the following area angle adjustment settings ; Depth : 8° ; Width : 0°

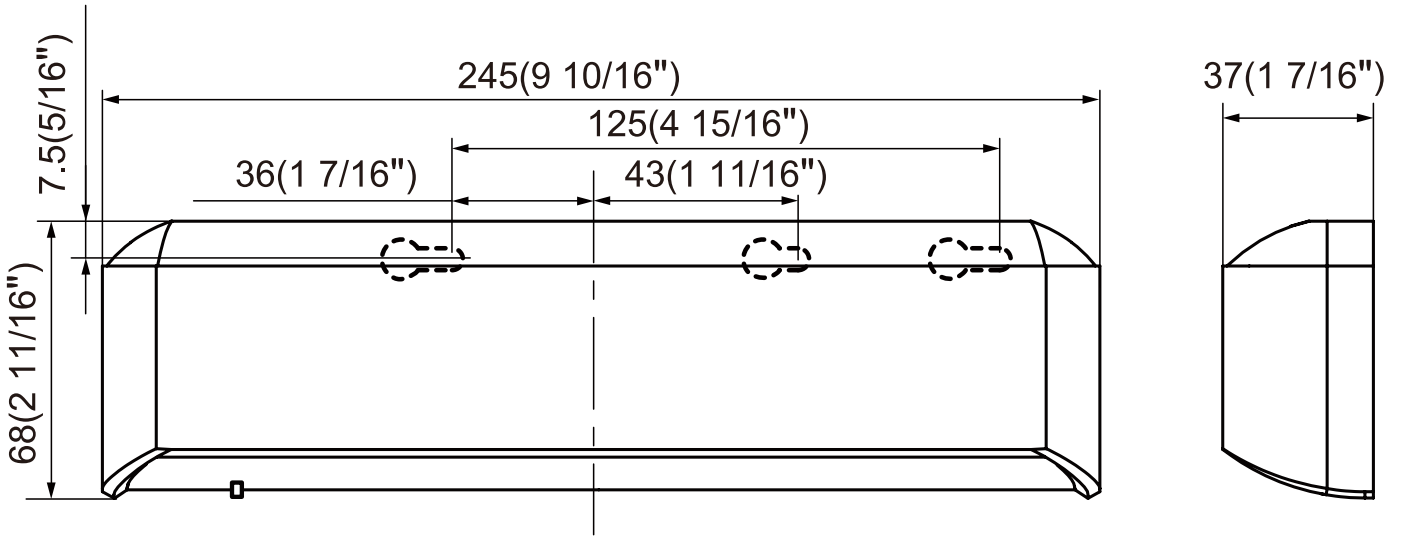


Emitting area

[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 : 8°
 Width : 0°



UNIT : mm (inch)

Cover color	: Silver / Black
Mounting height	: 2.0m(6'7") to 2.5m(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 24VAC ±10% (50 / 60Hz) 12 to 30VDC ±10%
Power consumption	: < 2.0W (< 5VA at AC)
Operation indicator	: See Operation indicator table
Safety input	: Opto coupler Voltage / 5 to 30VDC Current / 6mA Max. (30VDC)
Activation output	: Form A relay 50V 0.3A Max. (Resistance load)
Safety output	: Opto coupler (NPN) Voltage / 5 to 50VDC Current / 100mA Max. (Resistance load) Dark current / 600nA Max.
Operating temperature	: -20 to +55°C (-4 to 131°F)
Operating humidity	: < 80%
Noise level	: < 70dBA
Output hold time	: Approx. 0.5 sec.
Response time	: < 0.3 sec.
IP rate	: IP54
Category	: 2 (EN ISO 13849-1 : 2008/AC:2009)
Performance level	: d (EN ISO 13849-1 : 2008/AC:2009)
ESPE	: Type2
Weight	: 220g (7.8oz)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 3m(9'10") (8 × 0.22mm ² AWG24) (*3)

Operation indicator table

Status	Operation indicator color	1sec.	1sec.
Set-up	Yellow Blinking		
Stand-by (Installation mode)	Yellow		
Stand-by (Operation mode)	Green		
BLUEZONE (1st row) detection (*4)	Blue		
2nd row detection	Red Blinking		
3rd row detection	Red		
4th-6th row detection	Orange		
Signal saturation	Slow Green Blinking		
Sensor failure	Fast Green Blinking		
Setting error	Red & Green Blinking		

NOTE

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










*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.

Cover color	: Black
Mounting height	: 6'7"(2.0m) to 9'10"(3.0m)
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 24VAC ±10% (50 / 60Hz) 12 to 30VDC ±10%
Power consumption	: < 2.0W (< 5VA at AC)
Operation indicator	: See Operation indicator table
Test input	: Opto coupler Voltage / 5 to 30VDC Current / 6mA Max. (30VDC)
Activation output	: Form A relay 50V 0.3A Max. (Resistance load)
Safety output	: Form A relay 50V 0.3A Max. (Resistance load)
Operating temperature	: -31 to 131°F (-35 to +55°C)
Operating humidity	: < 80%
Noise level	: < 70dBA
Output hold time	: Approx. 0.5 sec.
Response time	: < 0.3 sec.
IP rate	: IP54
Weight	: 7.8oz (220g)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 9'10"(3m) (8 × 0.22mm ² AWG24) (*3)

Operation indicator table

Status	Operation indicator color	
Set-up	Yellow Blinking	
Stand-by (Installation mode)	Yellow	
Stand-by (Operation mode)	Green	
BLUEZONE (1st row) detection	Blue	
2nd row detection	Red Blinking	
3rd row detection	Red	
4th-6th row detection	Orange	
Signal saturation	Slow Green Blinking	
Sensor failure	Fast Green Blinking	

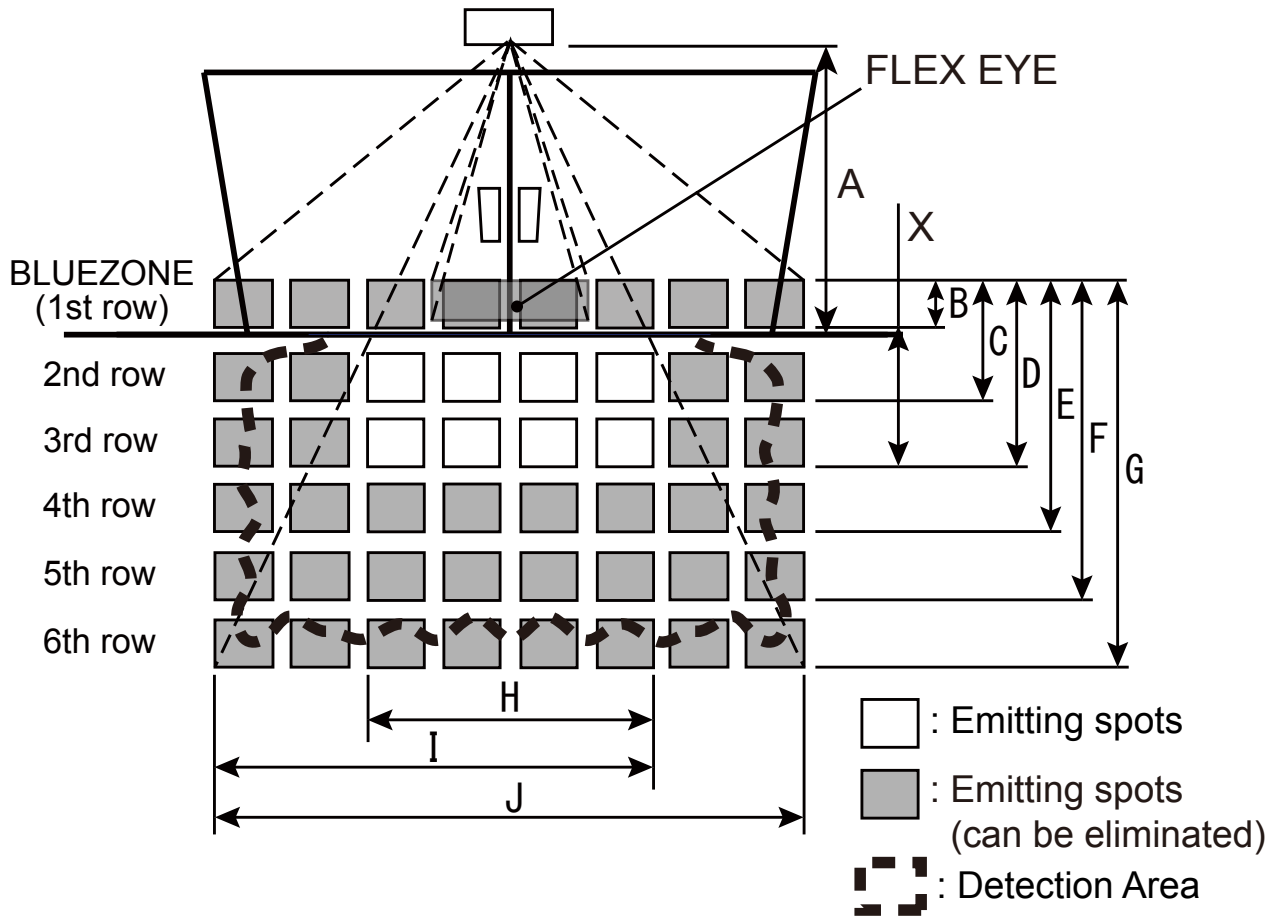
NOTE

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

*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.

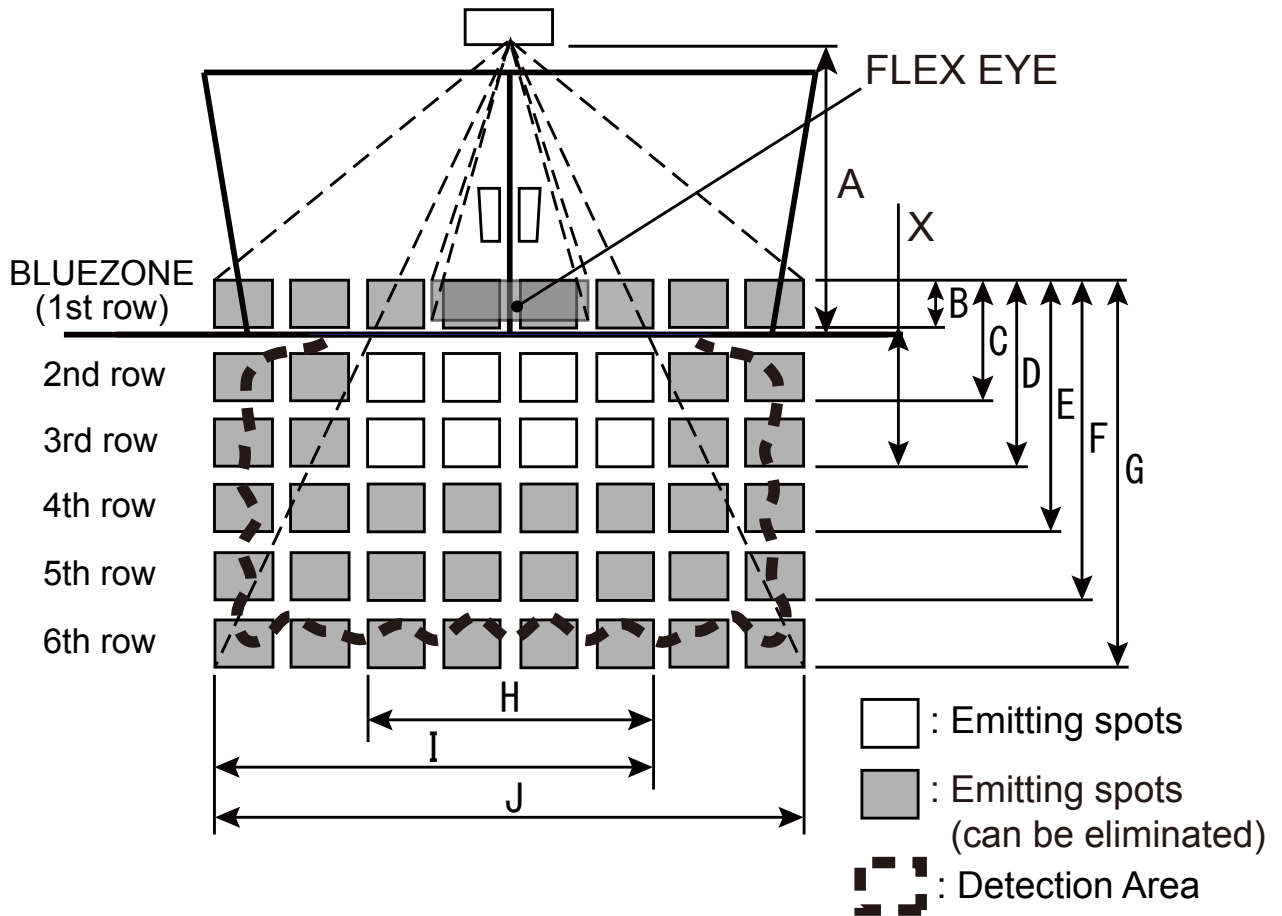


Emitting area

[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 : 8°
Width : 0°

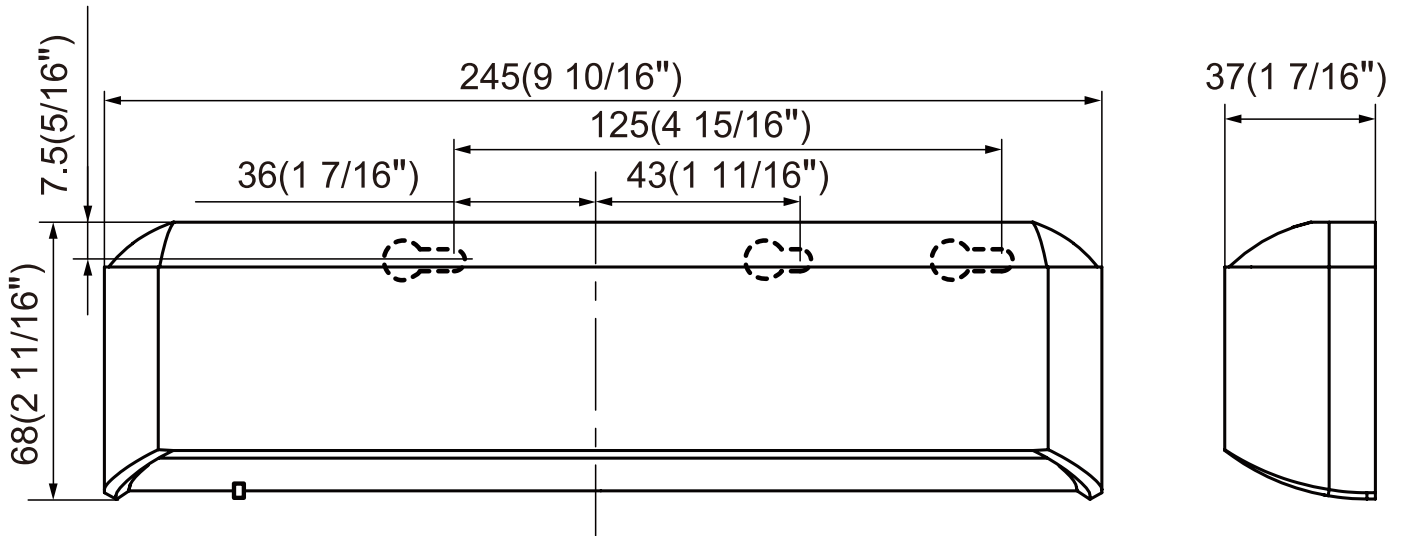


Emitting area

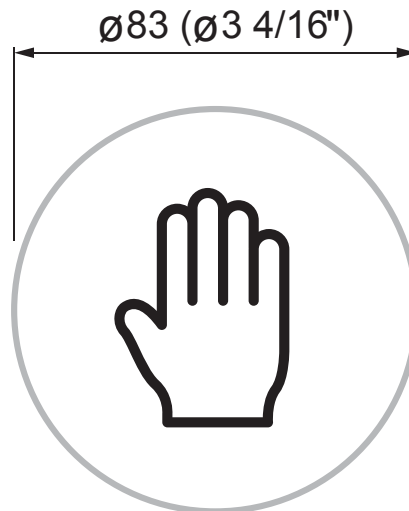
[feet,inch (m)]

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)

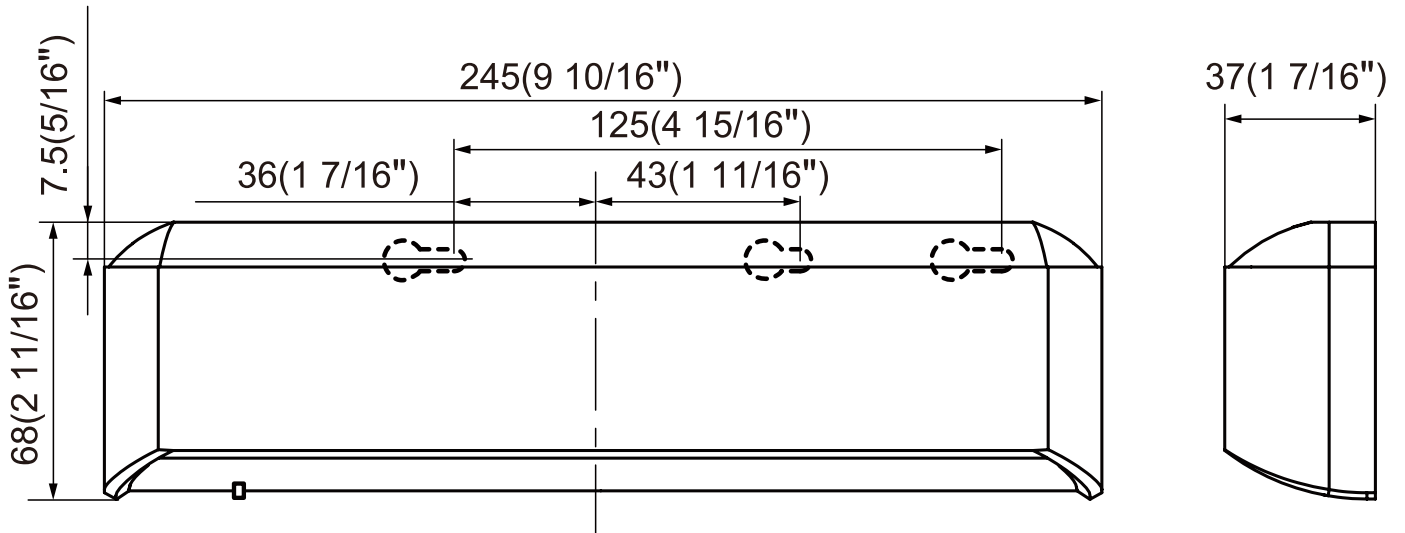
Charts show the values in the following
area angle adjustment settings ; Depth : 8°
Width : 0°



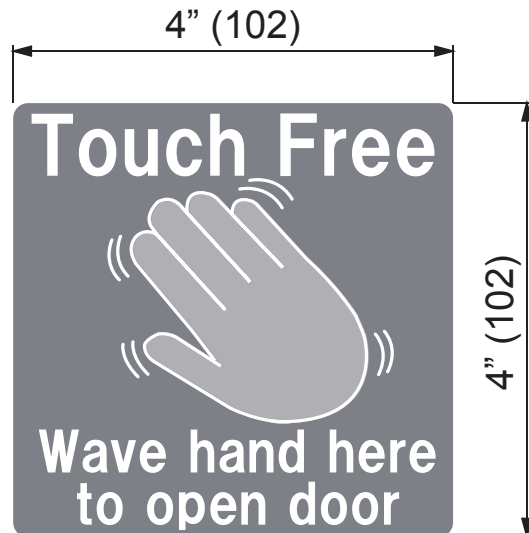
Touchless plate (option)



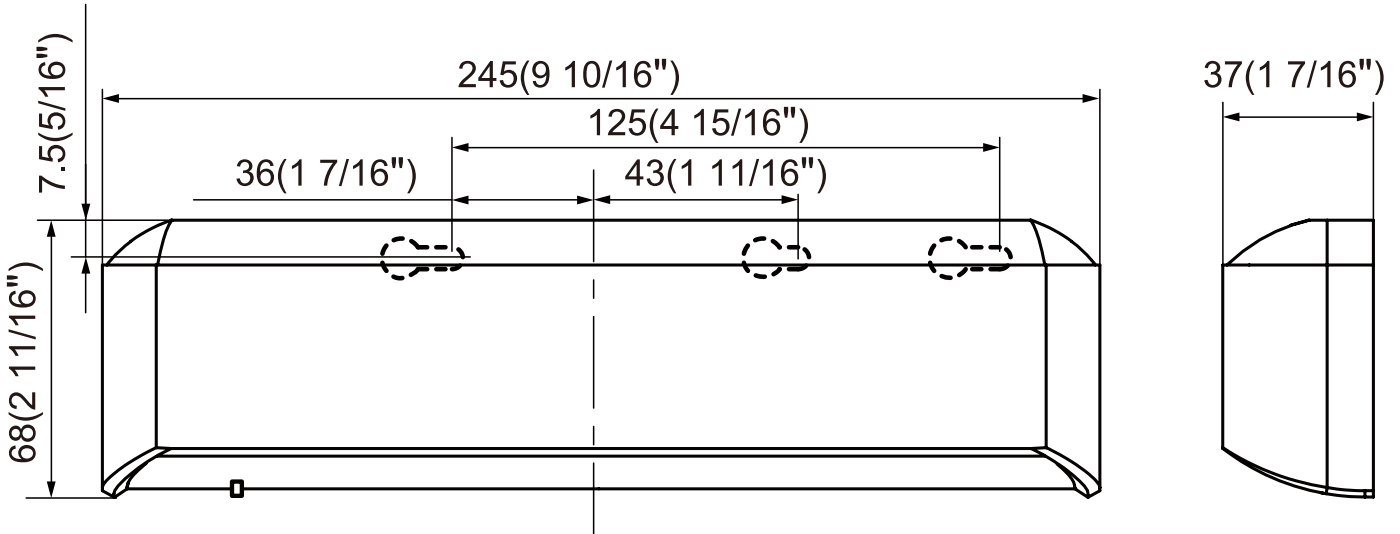
UNIT: mm (inch)



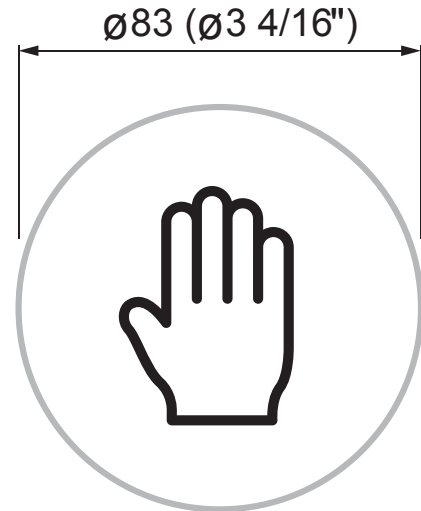
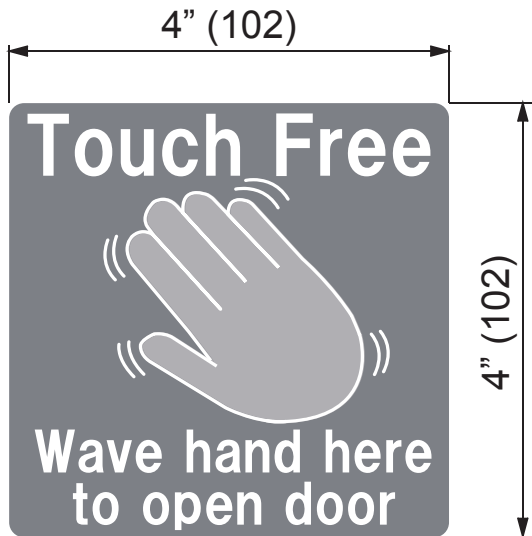
Touchless plate (option)



UNIT : mm (inch)



Touchless plate (option)



UNIT : mm (inch)

Cover color	: Black
Mounting height	: 6'7"(2.0m) to 9'10"(3.0m)
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 24VAC ±10% (50 / 60Hz) 12 to 30VDC ±10%
Power consumption	: < 2.5W (< 6VA at AC)
Operation indicator	: See Operation indicator table
Test input	: Opto coupler Voltage / 5 to 30VDC Current / 6mA Max. (30VDC)
Activation output	: Form A relay 50V 0.3A Max. (Resistance load)
Safety output	: Form A relay 50V 0.3A Max. (Resistance load)
Operating temperature	: -31 to 131°F (-35 to +55°C)
Operating humidity	: < 80%
Noise level	: < 70dBA
Output hold time	: Approx. 0.5 sec.
Response time	: < 0.3 sec.
IP rate	: IP54
Weight	: 8.1oz (230g)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 9'10"(3m) (8 × 0.22mm ² AWG24) (*3)

Operation indicator table

Status	Operation indicator color	1sec.	1sec.
Set-up	Yellow Blinking		
Stand-by (Installation mode)	Yellow		
Stand-by (Operation mode)	Green		
BLUEZONE (1st row) detection	Blue		
2nd row detection	Red Blinking		
3rd row detection	Red		
4th-6th row detection	Orange		
FLEX EYE detection	Fast Purple Blinking		
FLEX EYE & 2nd-4th row detection	Purple		
Signal saturation	Slow Green Blinking		
Signal saturation (FLEX EYE)	Slow Purple Blinking		
Sensor failure	Fast Green Blinking		

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

*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.

Cover color	: Black
Mounting height	: 6'7"(2.0m) to 9'10"(3.0m)
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 24VAC ±10% (50 / 60Hz) 12 to 30VDC ±10%
Power consumption	: < 2.5W (< 6VA at AC)
Operation indicator	: See Operation indicator table
Test input	: Opto coupler Voltage / 5 to 30VDC Current / 6mA Max. (30VDC)
Activation output	: Form A relay 50V 0.3A Max. (Resistance load)
Safety output	: Form A relay 50V 0.3A Max. (Resistance load)
Operating temperature	: 31 to 131°F (-35 to +55°C)
Operating humidity	: < 80%
Noise level	: < 70dBA
Output hold time	: Approx. 0.5 sec.
Response time	: < 0.3 sec.
IP rate	: IP54
Weight	: 8.1oz (230g)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 9'10"(3m) (8 × 0.22mm ² AWG24) (*3)

Operation indicator table

Status	Operation indicator color	1sec.	1sec.
Set-up	Yellow Blinking		
Stand-by (Installation mode)	Yellow		
Stand-by (Operation mode)	Green		
BLUEZONE (1st row) detection	Blue		
2nd row detection	Red Blinking		
3rd row detection	Red		
4th-6th row detection	Orange		
FLEX EYE detection	Fast Purple Blinking		
FLEX EYE & 2nd-4th row detection	Purple		
Signal saturation	Slow Green Blinking		
Signal saturation (FLEX EYE)	Slow Purple Blinking		
Sensor failure	Fast Green Blinking		

NOTE

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






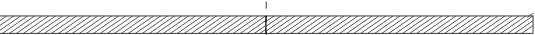




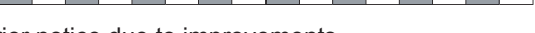
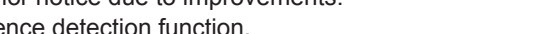
*1 : BLUEZONE (1st row), 2nd and 3rd rows have a presence detection function.

*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.

Cover color	: Black
Mounting height	: 6'7"(2.0m) to 9'10"(3.0m)
Detection area	: See DETECTION AREA
Detection method	: Active infrared reflection(*1)
FLEX EYE angle adjustment	: Depth : -14° to +2° Width : ±42° (7 clicks with 6° every one click-Reft/Light)
Secondary Activation area angle adjustment	: Depth : -16° to +0° Width : ±7° (2 clicks with 3.5° every one click-Reft/Light)
Power supply	: 12 to 24V AC ±10% (50/60Hz) 12 to 30V DC ±10%
Power consumption	: < 2.0W (< 3VA at AC)
Operation indicator	: See Operation indicator table
Primary, Secondary Activation output	: Form A relay 50V 0.3A Max. (Resistance load)
Output hold time	: Approx. 0.5 sec.
Response time	: < 0.3 sec.
Operating temperature	: -4 to 131°F (-20 to +55°C)
Operating humidity	: <80%
IP rate	: IP44
Weight	: 8.8oz (250g)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Power & Primary Activation output cable 8'2" (2.5m) 1 Secondary Activation output cable 8'2" (2.5m)

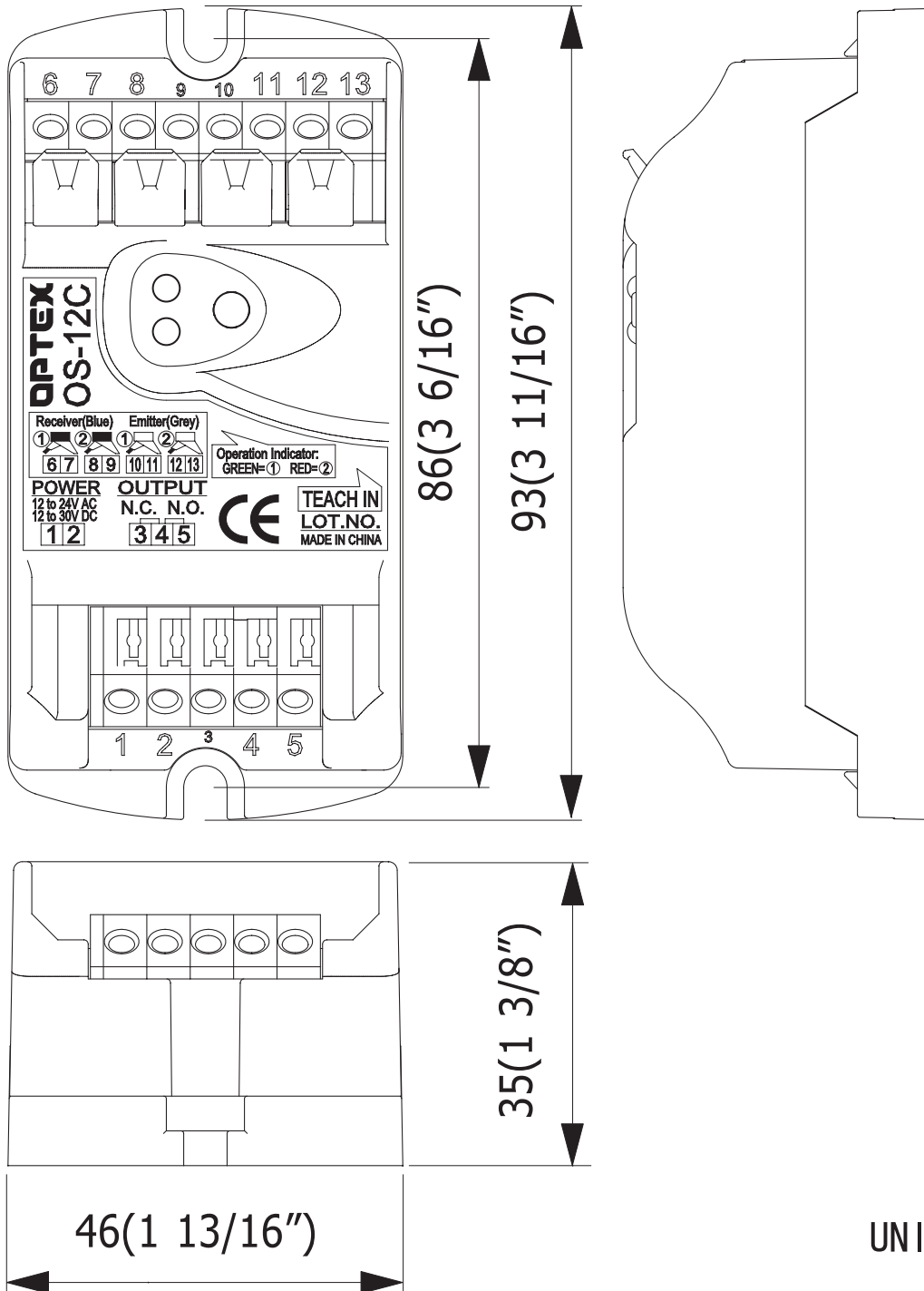
Operation indicator table

Status	Operation indicator color	
Set-up	Yellow Blinking	
Stand-by (Installation mode)	Yellow	
Stand-by (Operation mode)	Green	
BLUEZONE (1st row) detection (*2)	Blue	
2nd row detection	Red Blinking	
3rd row detection	Red	
4th-6th row detection	Orange	
FLEX EYE detection (*3)	Fast Purple Blinking	
FLEX EYE & 2nd-4th row detection	Purple	
Signal saturation(Secondary Activation area)	Slow Green Blinking	
Signal saturation (FLEX EYE)	Slow Purple Blinking	
Sensor failure	Fast Green Blinking	

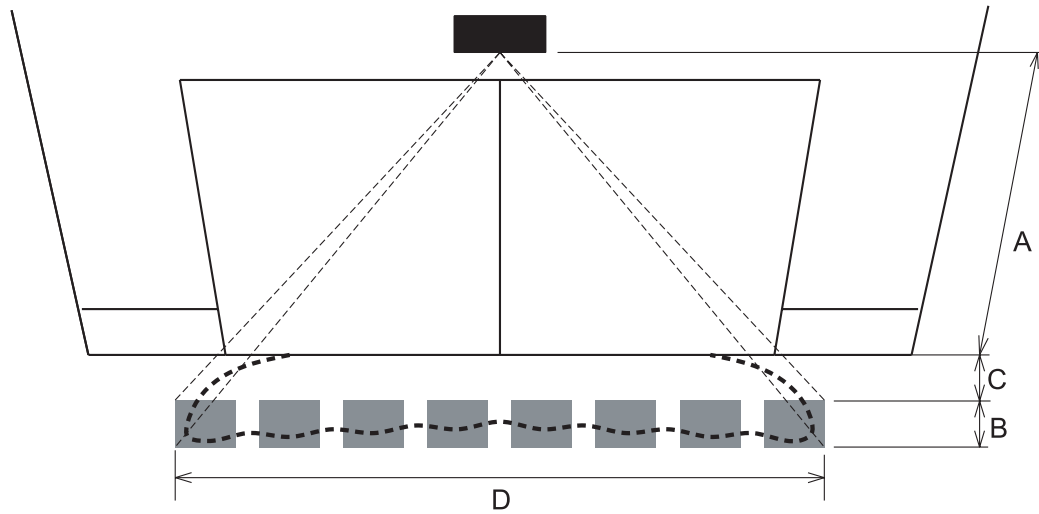
NOTE The specifications herein are subject to change without prior notice due to improvements.
*1 : BLUEZONE (1st row), 2nd and 3rd rows have a presence detection function.

Model	OS-12C / OS-12C (HT0.1)
Installation Distance	Less than 10m (32' 10")
Detection Method	Point to Point Near Infrared Light Beam
Power Supply	12 to 24V AC / 12 to 30V DC
Current Draw	160mA MAX
Operation Indicator	BEAM1 / BEAM2 Stand-by :GREEN ON / RED ON Detection Active :GREEN OFF / RED OFF Insufficient sensitivity:GREEN BLINK / RED BLINK
Output Contact	N.O. / N.C. 50V 0.3A (Resistance Load)
Response Time	Approx. 0.1 sec (from the moment of beam cut-off)
Relay Hold Time	Approx. 0.5 sec / OS-12C, 0.1 sec / OS-12C (HT0.1) (from the moment of beam input)
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Weight	Amplifier: 65g (2.3oz)
Component	1 Amplifier, 2 Mounting Screws, 1 Manual (Optional sensor head is necessary for operation)

Model	OS-12CR
Installation Distance	Less than 2m (6' 6 3/4")
Detection Method	Reflection Type Near Infrared Light Beam
Power Supply	12 to 24V AC / 12 to 30V DC
Current Draw	160mA MAX
Operation Indicator	BEAM1 / BEAM2 Stand-by :GREEN ON / RED ON Detection Active :GREEN OFF / RED OFF Insufficient sensitivity:GREEN BLINK / RED BLINK
Output Contact	N.O. / N.C. 50V 0.3A (Resistance Load)
Response Time	Approx. 0.1 sec (from the moment of beam cut-off)
Relay Hold Time	Approx. 0.5sec (from the moment of beam input)
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Weight	Amplifier: 65g (2.3oz)
Component	1 Amplifier, 2 Mounting Screws, 1 Reflector, 1 Manual 1 SensorHead unit, 1 Reflection Type Mounting Plate



UNIT : mm (inch)



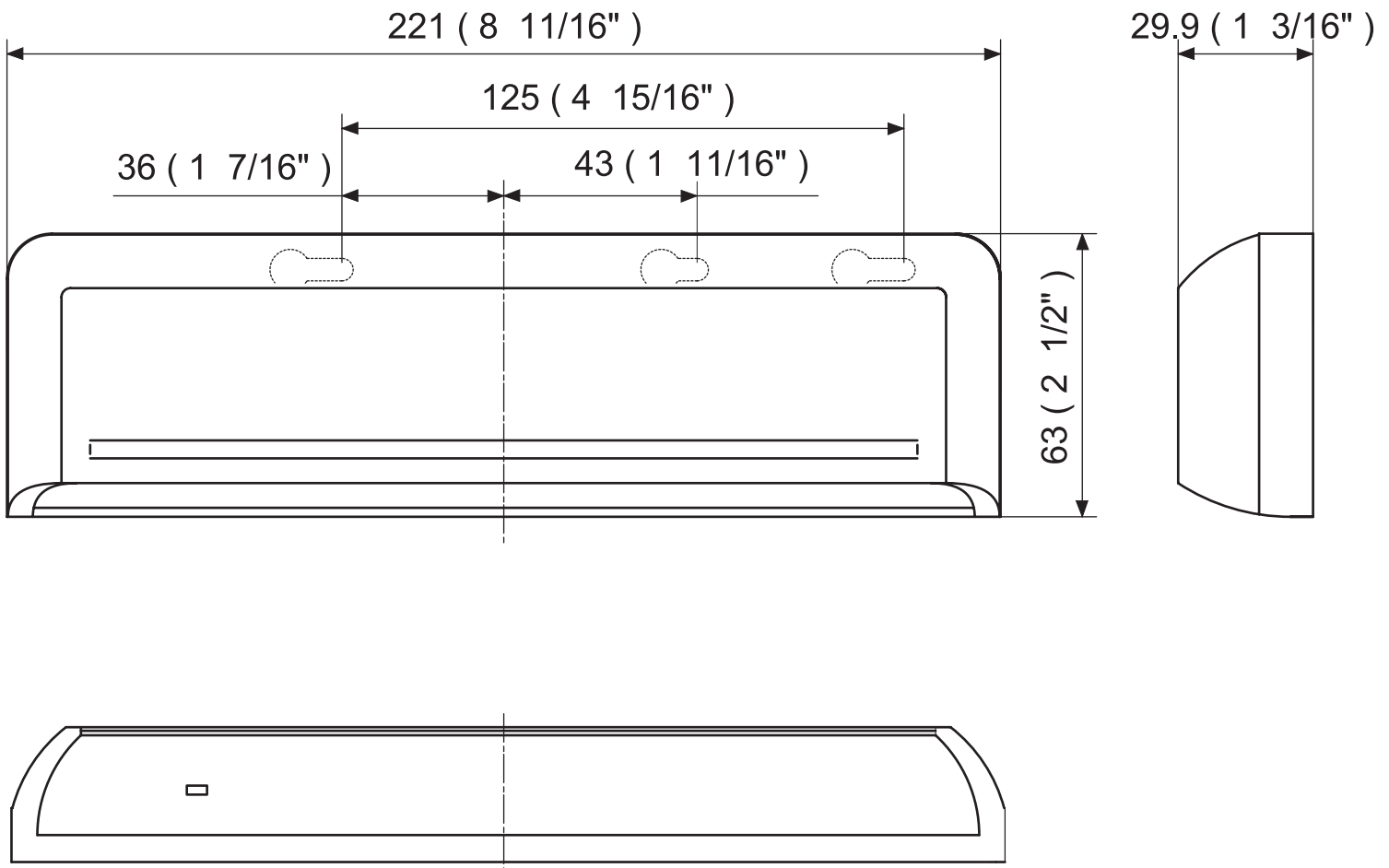
[m]

A	2.00	2.20	2.50	2.70	3.00
B	0.14	0.16	0.18	0.19	0.21
C	0.16	0.18	0.20	0.22	0.25
D	2.10	2.30	2.60	2.80	3.10

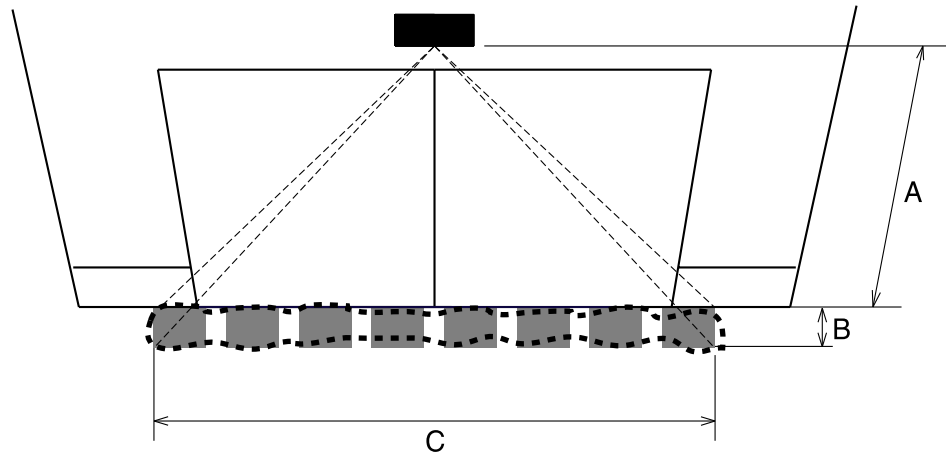
[feet , inch]

A	6' 6 3/4"	7' 2 5/8"	8' 2 7/16"	8' 10 5/16"	9' 10 1/8"
B	11"	1' 3/16"	1' 1 3/4"	1' 2 15/16"	1' 4 9/16"
C	6 5/16"	7 1/16"	7 7/8"	8 11/16"	9 13/16"
D	6' 10 11/16"	7' 6 9/16"	8' 6 3/8"	9' 2 1/4"	10' 2 1/16"

Model	: OA-Presence
Cover color type	: Silver / Black / White
Mounting Height	: 3.0m(9'10") Max.
Detection Area	: See "Detection Area"
Detection Method	: Active Infrared Reflection Method
Detection Angle	: $\pm 4^\circ$ adjustable by 1° every one click
Adjustments	(Deep / Shallow)
Detection Width	: $\pm 7^\circ$ 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 / Detection Active
Output Method	: "Form C" relay 50V 0.3A Max. (Resistance Load)
Relay Hold Time	: 0.5 sec.
Response Time	: < 0.3 sec.
Operating Temperature	: -20°C to $+55^\circ\text{C}$ (-4°F to $+131^\circ\text{F}$)
Weight	: 200g (7.1oz)
Accessories	: 1 Cable 3m (9'10") 2 Mounting Screws 1 Operation Manual 1 Mounting Template 1 Area Adjustment Tool



UNIT: mm (inch)



The values below are those of when tilted 5° away from the door.

[m]






A	2.00	2.20	2.50	2.70	3.00
B	0.37	0.40	0.45	0.48	0.53
C	2.60	2.86	3.25	3.51	3.90

[feet,inch]

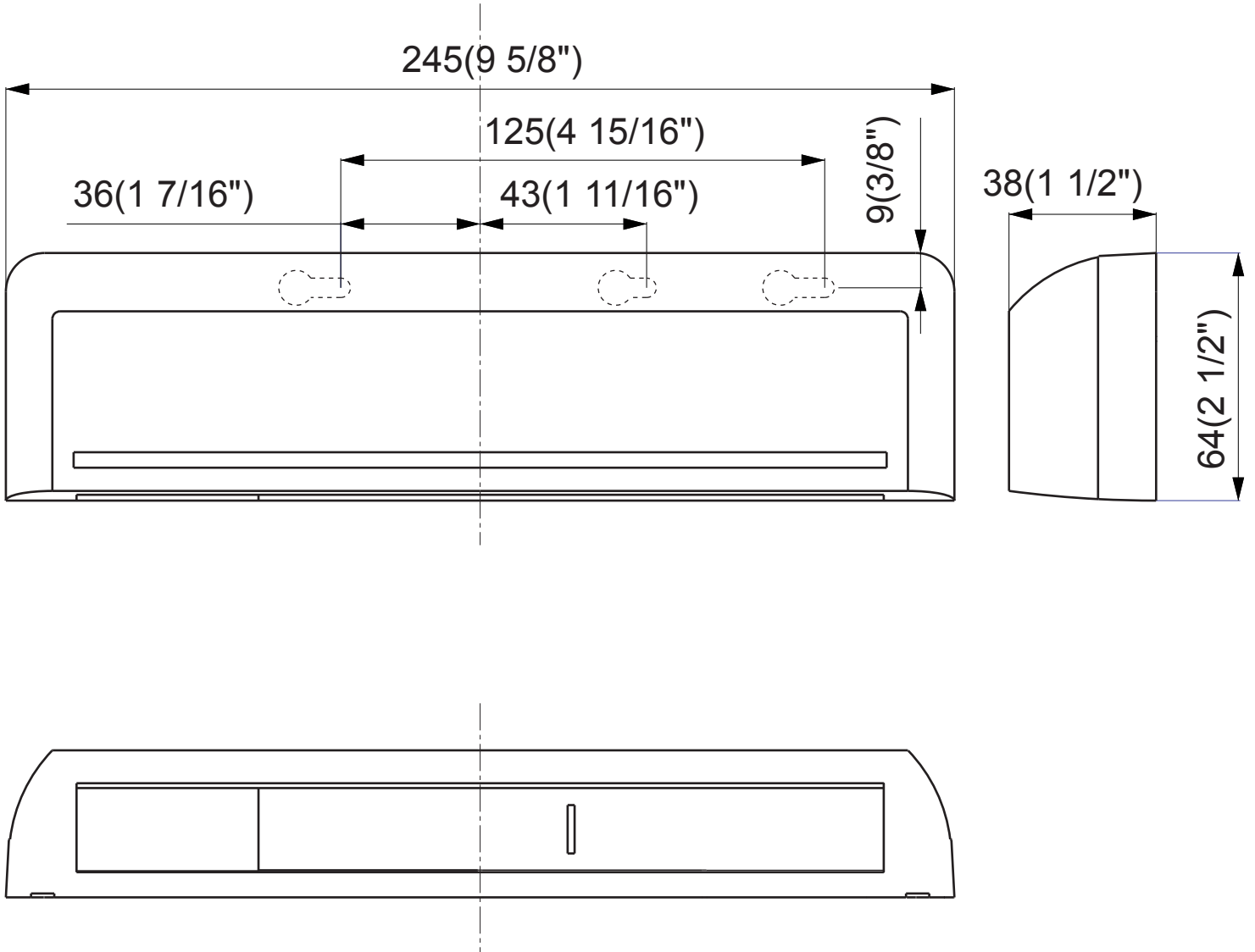
A	6' 6 3/4"	7' 2 5/8"	8' 2 7/16"	8' 10 5/16"	9' 10 1/8"
B	1' 2 9/16"	1' 3 3/4"	1' 5 11/16"	1' 6 7/8"	1' 8 7/8"
C	8' 6 3/8"	9' 4 5/8"	10' 7 15/16"	11' 6 3/16"	12' 9 9/16"

Model	: OA-PRESENCE T
Cover color	: Black / Silver
Mounting height	: 2.0 to 3.0m (6'7" to 9'10")
Detection area	: See ADJUSTMENTS
Detection method	: Active Infrared Reflection
Depth angle adjustment	: -5 to 5°
Power supply (*)	: 12 to 24VAC (±10%) 12 to 30VDC (±10%)
Power consumption	: < 2W (< 3VA at AC)
Operation LED	: See chart below
Safety / Test output	: Opto coupler (NPN) Voltage / 5 to 50VDC Current / 100mA Max. Dark current / 600nA Max. (Resistance load)
Test input	: Opto coupler Voltage / 5 to 30VDC Current / 6mA Max. (30VDC)
Noise level	: <70dBA
Output hold time	: Approx. 0.5sec.
Response time	: <0.3sec.
Operating temperature	: -20 to +55°C (-4 to 131°F)
Operating humidity	: <80%
IP rate	: IP54
Category	: 2 (EN ISO13849-1 : 2008)
Performance level	: d (EN ISO13849-1 : 2008)
Weight	: 260g (9.2oz)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Cable 3m(9'10") (6 × 0.14mm ² AWG26 / Overcurrent protection with less than 2A)

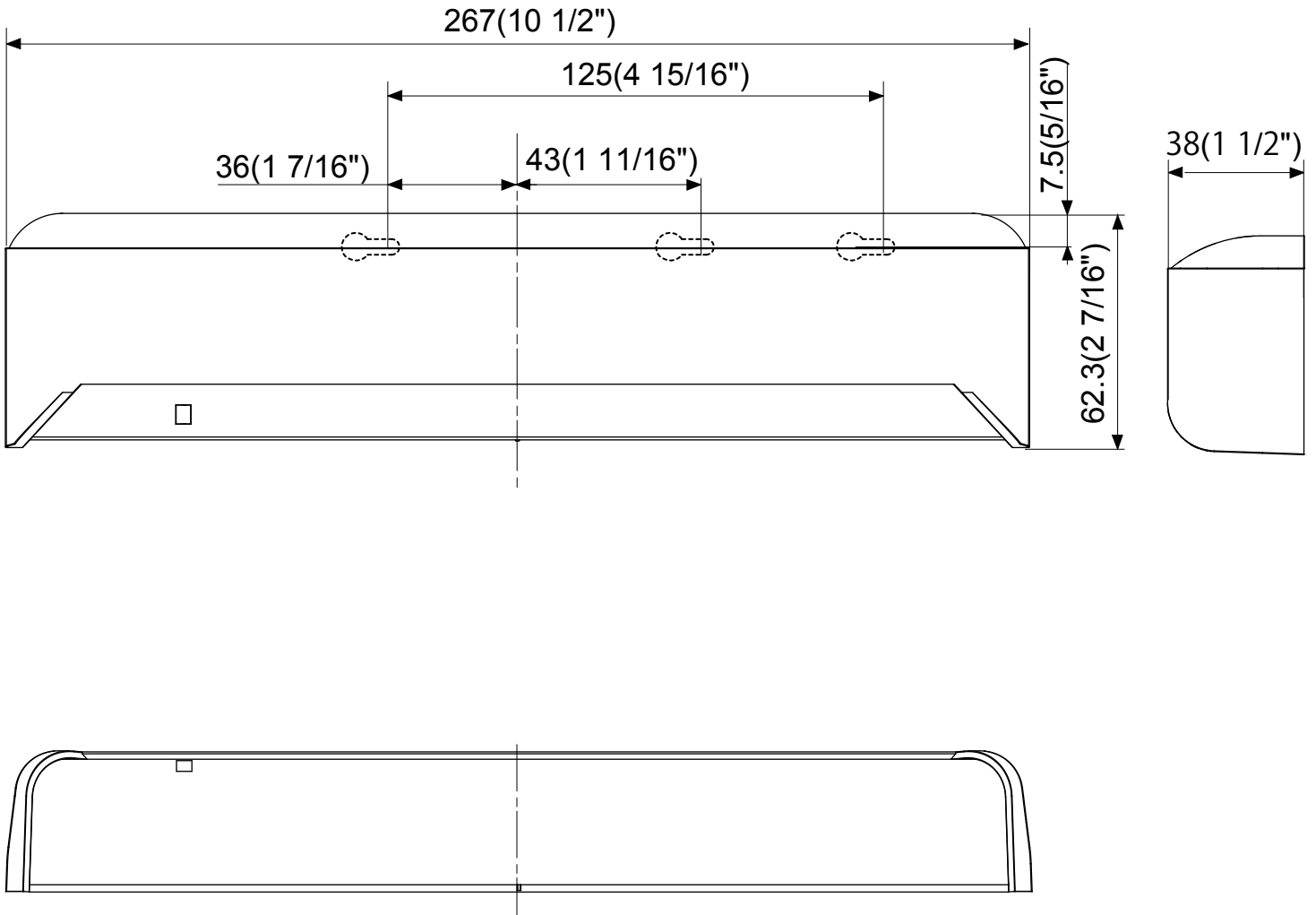
Operation LED

Status	Operation LED color	Visual Representation
Stand-by	Green	
Detection	Red	
Wrong dipswitch setting	Red & Green blinking	
Signal saturation	Slow Green blinking	
Sensor failure	Fast Green blinking	

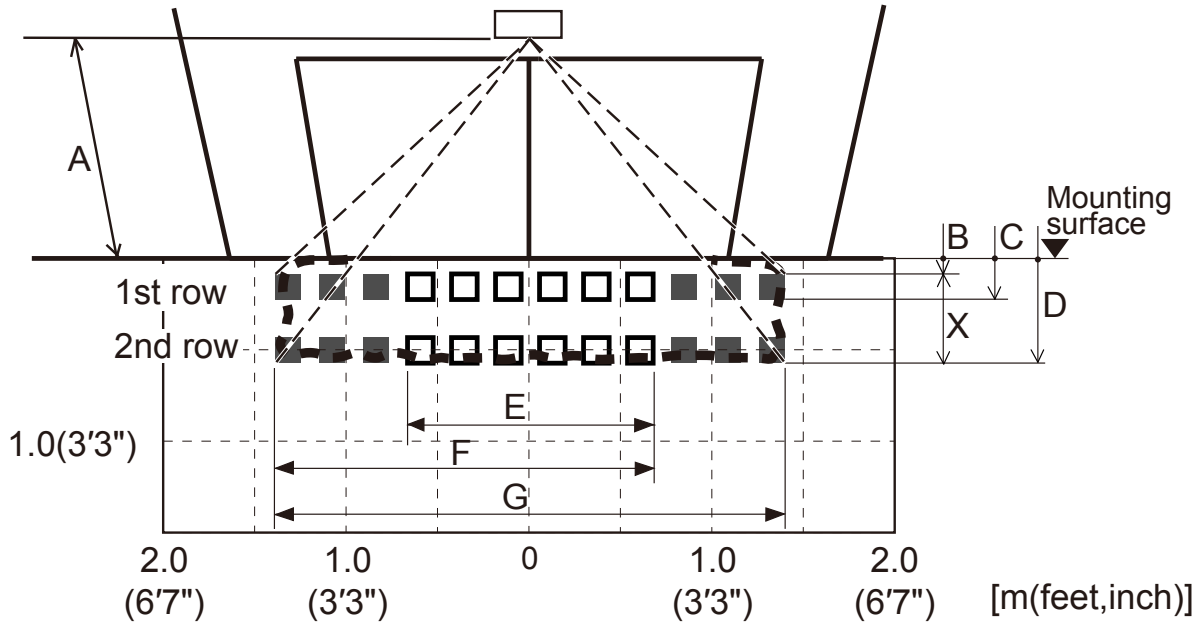
* When using this sensor, the sensor has to be connected to a door system which has the SELV circuit.



UNIT : mm (inch)



UNIT : mm (inch)



Mounting height : 2.2m(7'3")
 Angle adjustment : +6°
 Sensitivity : Middle

: Emitting spots
 : Emitting spots
 (can be eliminated)
 : Detection area

Emitting area








The chart shows the values at depth angle +6°

[m(feet,inch)]

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")

Cover color	: Silver / Black
Mounting height	: 2.0 (6'7") to 3.5m (11'6")
Detection area	: See DETECTION AREA
Detection method	: Active infrared reflection
Depth angle adjustment	: -6° to +6°
Power supply (*1)	: 12 to 24VAC ±10% (50 / 60Hz) 12 to 30VDC ±10%
Power consumption	: < 1W (< 2 VA at AC)
Operation indicator	: See Operation indicator table
Safety input	: Opto coupler Voltage 5 to 30VDC Current 6mA Max. (30VDC)
Safety output	: Opto coupler (NPN) Voltage 5 to 50VDC Current 100mA Max. Dark current 600nA Max. (Resistance load)
Operating temperature	: -20 to +55°C (-4 to 131°F)
Operating humidity	: < 80%
Noise level	: < 70dBA
Output hold time	: < 0.5sec.
Response time	: < 0.3sec.
IP rate	: IP54
Category	: 2 (EN ISO13849-1:2015)
Performance level	: d (EN ISO13849-1:2015)
ESPE	: Type 2
Weight	: 250g (8.8oz)
Accessories	: 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool 1 Cable 3m (9'10") (8×0.22mm ² AWG24) (*2)

Operation indicator table

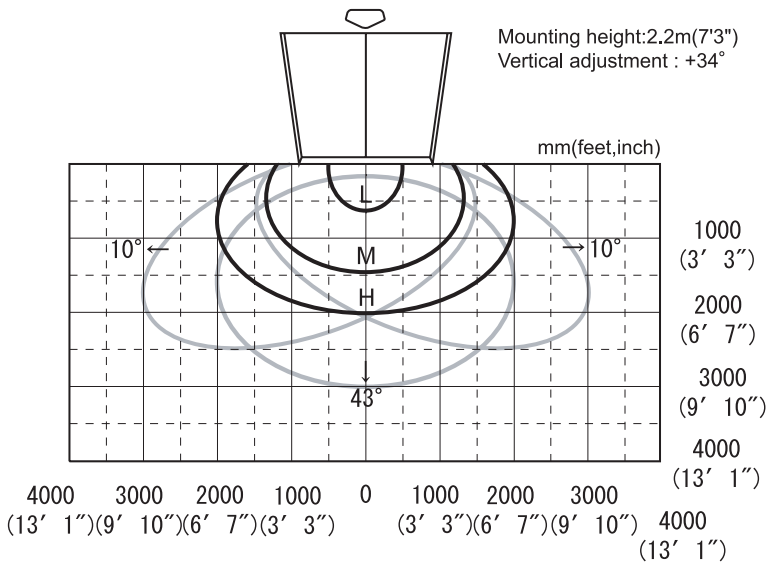
Status	Operation indicator color	
Stand-by (Installation mode)	Yellow	
Stand-by (Operation mode)	Green	
1st row detection	Red blinking	
2nd row detection	Red	
Setting error	Red & Green blinking	
Signal saturation	Slow Green blinking	
Sensor failure	Fast Green blinking	

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

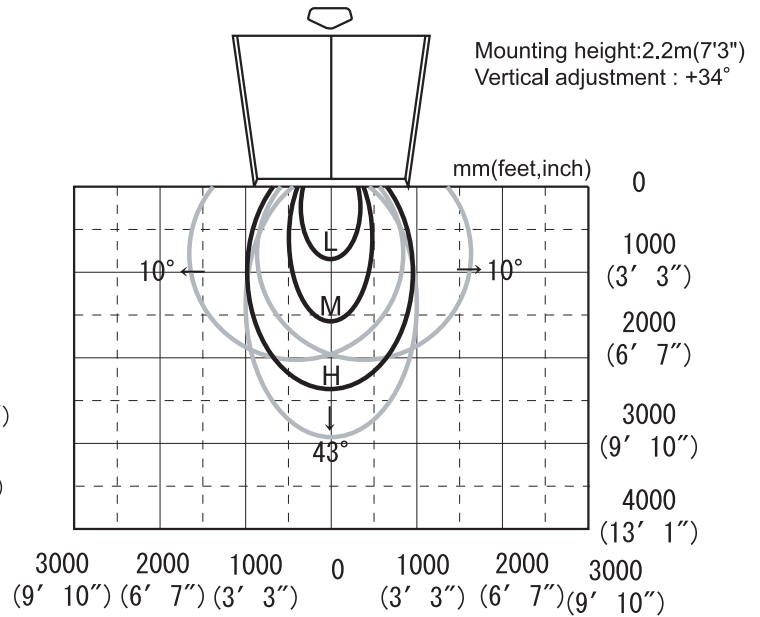
*1 : The sensor has to be connected to a door system which has a SELV circuit.

*2 : Overcurrent protection with less than 2A.

Wide area



Narrow area



Unit:mm(ft, inch)

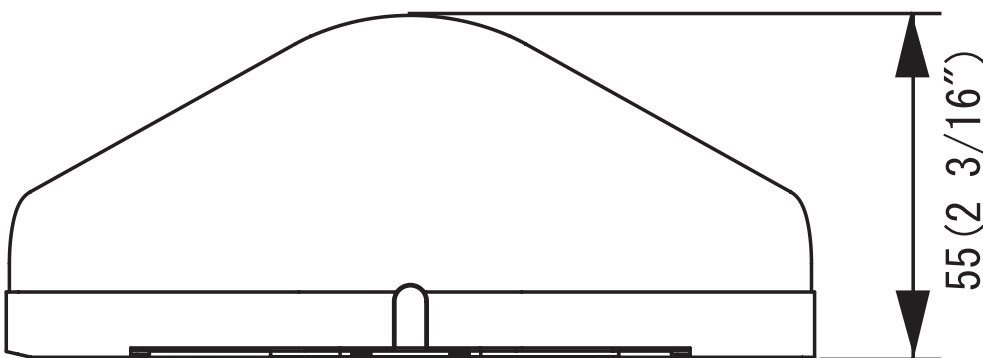
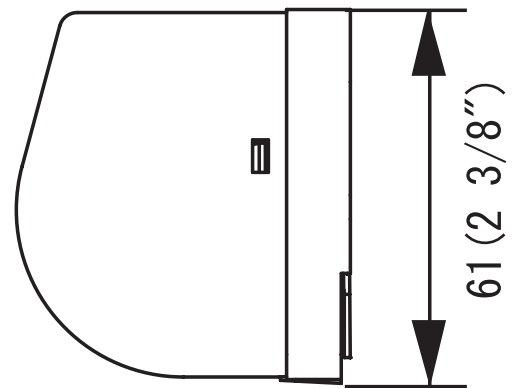
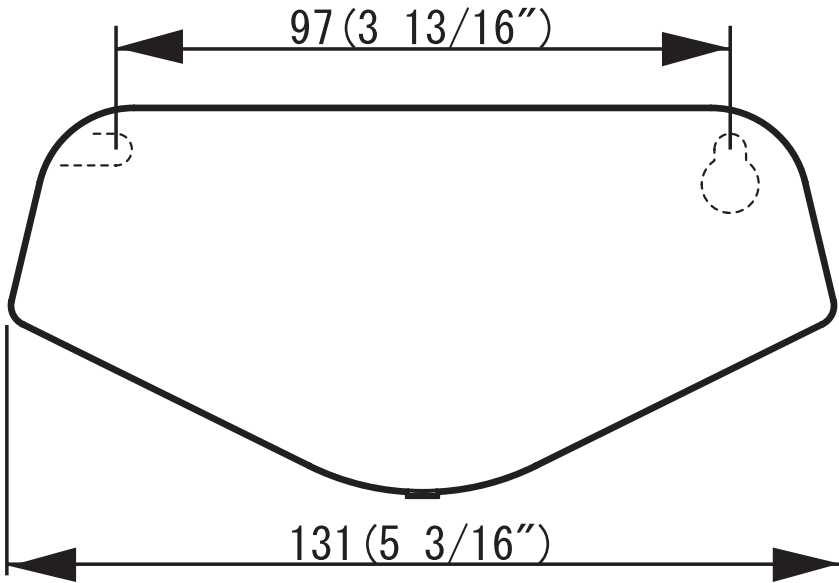
Sensitivity Potentiometer	WIDE AREA		NARROW AREA	
	Width	Depth	Width	Depth
High	4.0m (13' 2")	2.0m (6' 7")	2.0m (6' 7")	2.3m (7' 7")
Mid	2.6m (8' 6")	1.5m (4' 11")	1.0m (3' 3")	1.6m (5' 3")
Low	2.0m (6' 7")	0.6m (1' 12")	0.6m (1' 12")	0.8m (2' 7")

*The values are the reference and not guaranteed.

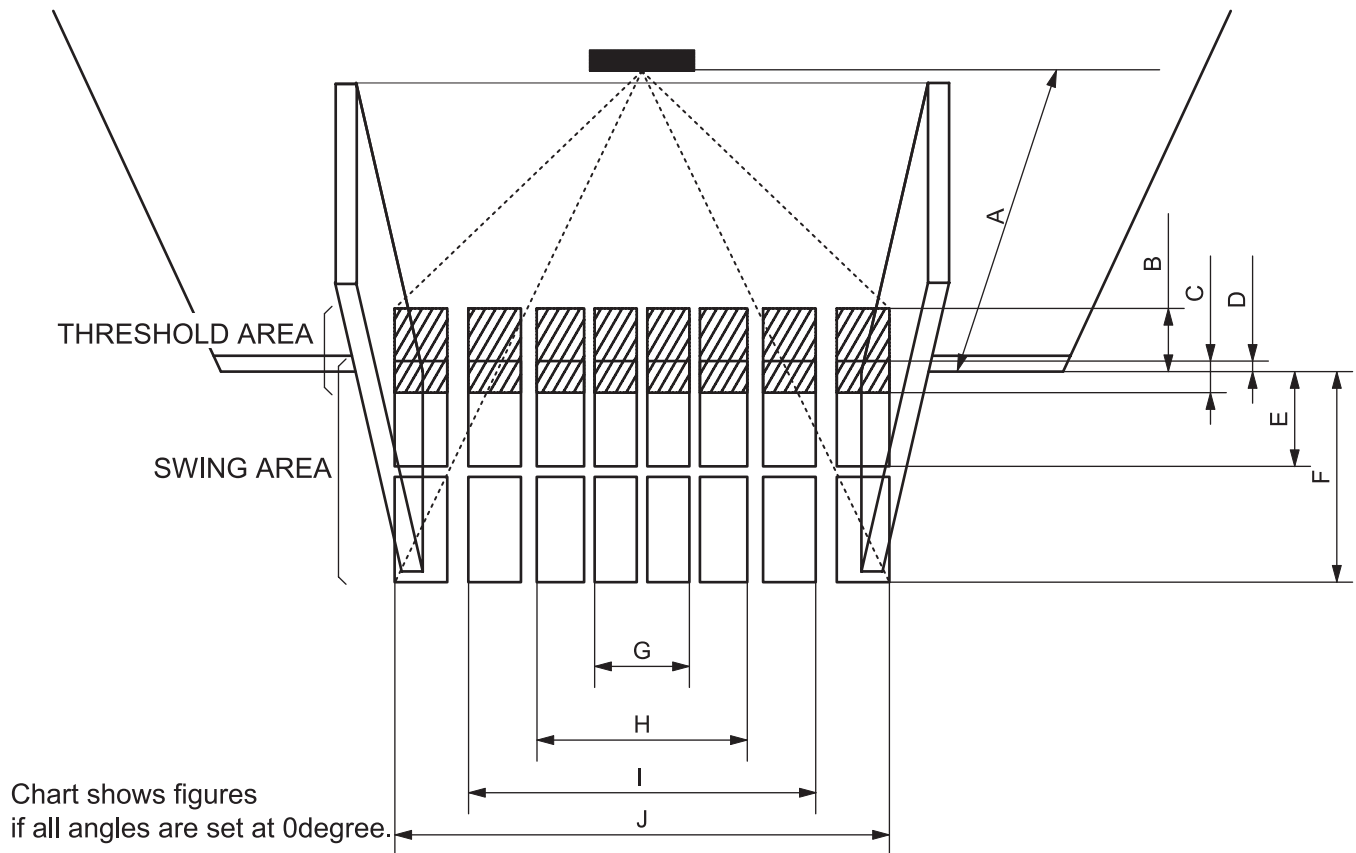
*The area position may differ according to the size / material / entry speed of object and the installation environment. (Especially, when the material of door, floor and surrounding wall is metallic, the area may be bigger.)

Model	: OM-105C / 106C
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
Vertical adjustment	: +10° to +70° (Header mount) +20° to +80° (Ceiling mount)
Horizontal adjustment	: 30° to left or right
Power supply	: 12 to 24VAC(±10%) 12 to 30VDC(±10%)
Power consumption	: < 1.5W(<2VA at AC)
Minimum speed	: 5cm(1 15/16")/sec.
Operation indicator	: Green / Stand-by Red / Detection Green blinking / Set-up
Output	: Form C relay 50V 0.3A Max.(Resistance load)
Output hold time	: 0.5sec. / 2.0sec.
Response time	: <0.3 sec.
Operating humidity	: <80%
Operating temperature	: -20°C to +55°C(-4°F to 131°F)
IP rate	: IP54
Weight	: 140g (4.9oz)
Accessories	: 1 Cable 3m (9'10") 1 Operation manual 2 Mounting screws 1 Mounting template 1 Narrow lens*

* At the back of housing cover



Unit:mm (inch)



mm (ft, inch)

A	2000 (6'7")	2200 (6'11")	2500 (8'3")
B	364 (1'2")	400 (1'4")	455 (1'6")
C	182 (7")	200 (8")	227 (9")
D	23 (1')	25 (1')	28 (1')
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")

SPECIFICATIONS

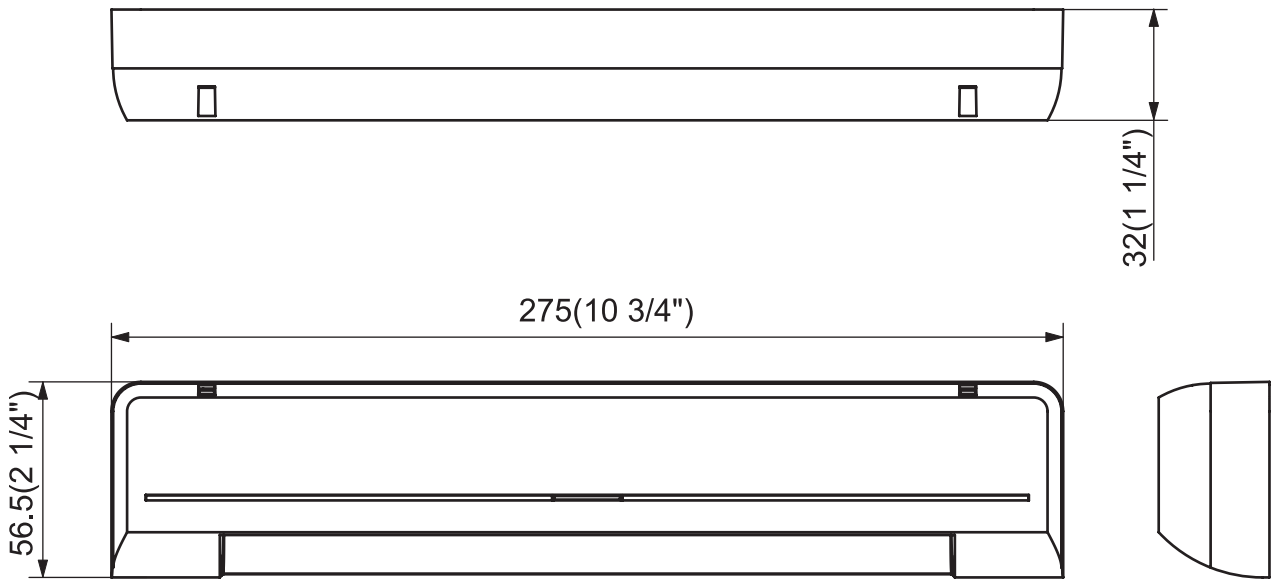
Active Infrared Sensor

Premier

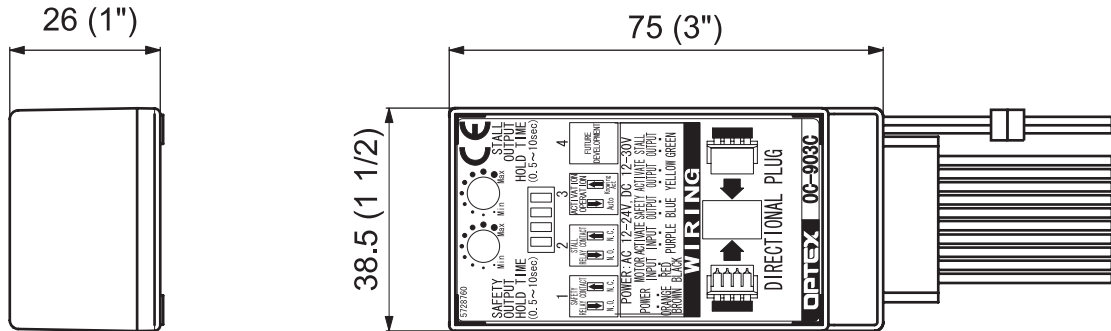
Model	: OA-603
Cover color type	: Black , Silver
Mounting Height	: 2.0m (6'7") to 2.5m (8'2 7/16")
Detection Area	: See the chart in ADJUSTMENT
Detection Method	: Active Infrared Reflection(Presence Detection Type)
Detection Angle	: Threshold Area $\pm 5^\circ$ (Inside & outside)
Adjustments	Swing Area $\pm 5^\circ$ (Inside & Outside)
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(9'10") 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	Activate Output : Form A Relay 50V, 0.3A(Resistance Load) Safety Output : Form C Relay 50V, 0.3A (Resistance Load)
Relay Hold Time (Safety Output only)	0.5 to 10s
Lockout Timer	0-24sec
Operation Indicator	Green: Standby Red: Door Opening Orange: Lockout
Operating Temperature	-20 - +55degrees (-4F - +131Fdegrees)
Weight	50g (1.8oz.)

0A-603

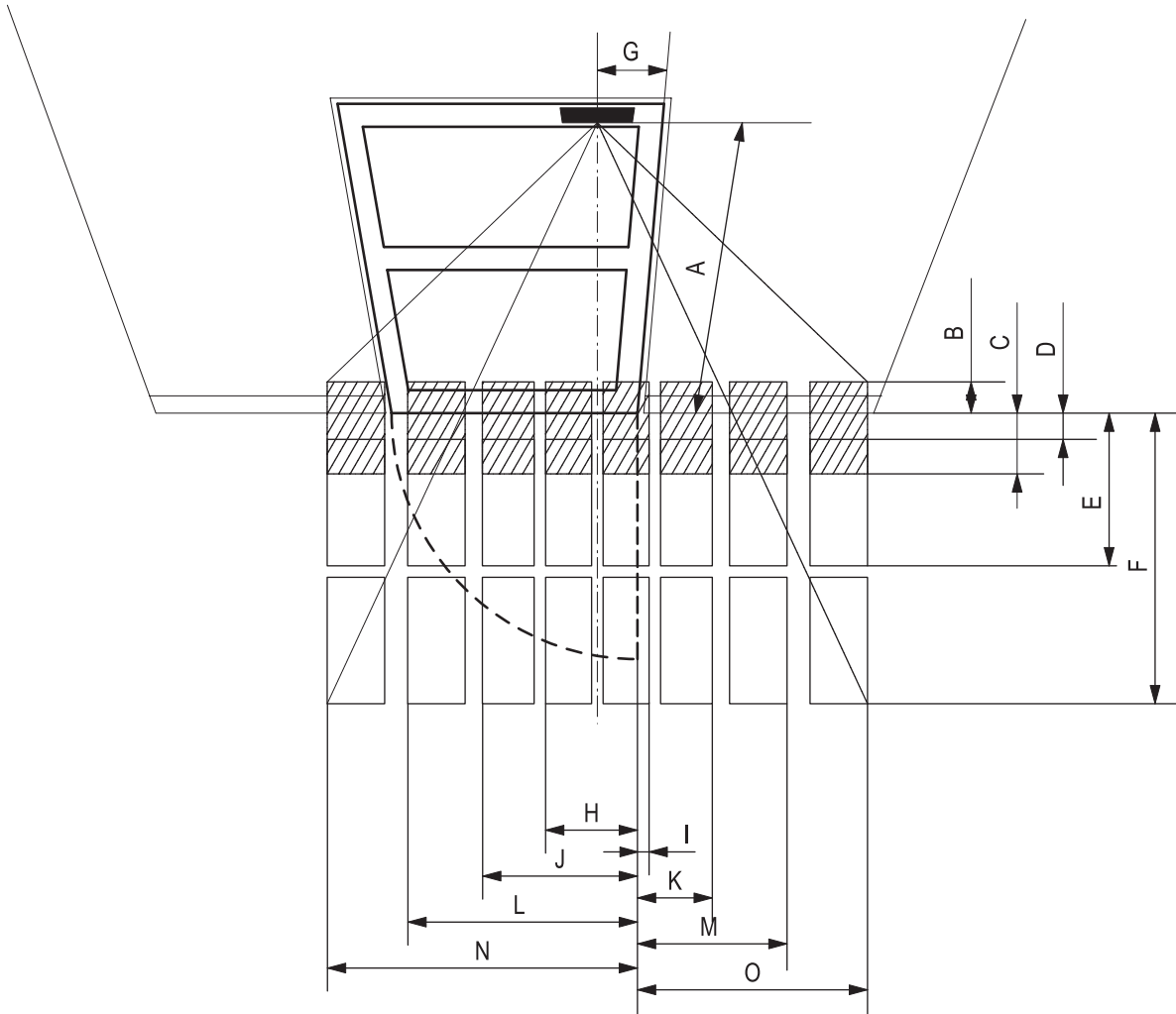


0C-903C



unit:mm(inch)

UNIT:mm (inch)



mm (ft, 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")

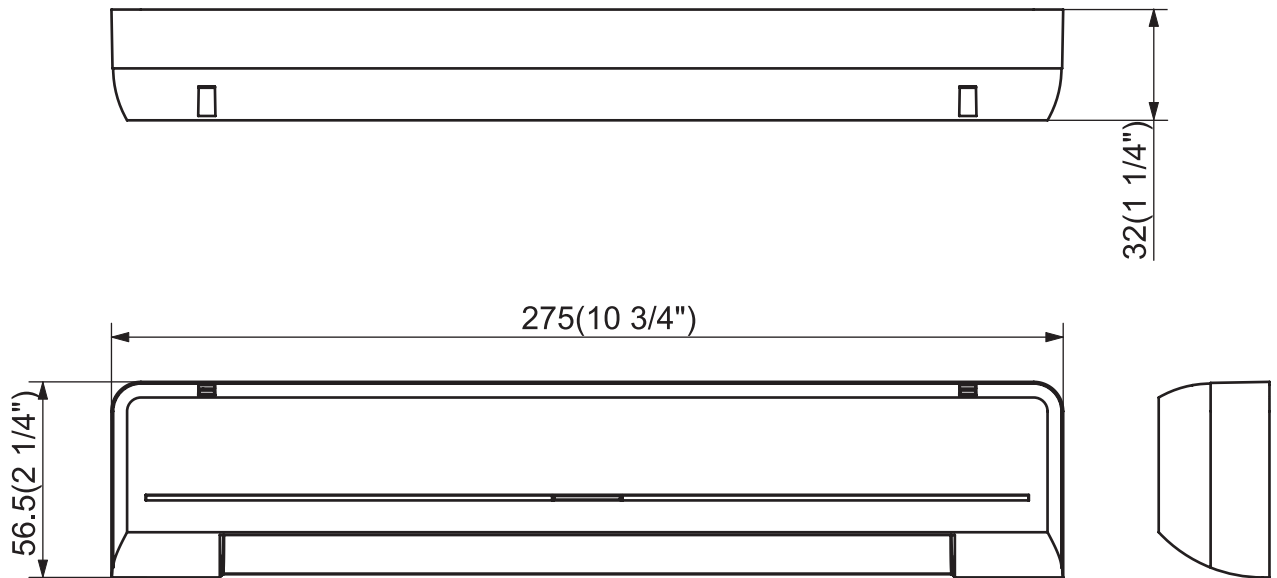
SPECIFICATIONS**Active Infrared Sensor****Elite**

Model	:OA-603
Cover color type	: Black , Silver
Mounting Height	: 2.0m (6'7") to 2.5m (8'2 7/16")
Detection Area	:See the chart in ADJUSTMENT
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 :Teaching
Current Draw	: 120mA Max
Response Time	: < 0.3 second
Operating Temperature:	-20C to +55C (-4F to +131F)
Weight	: 230g (8.2oz.)
Accessories	: 1 Sensor Cable 1m(9'10") 2 Mounting screws 1 Operation Manual 1 Mounting Template

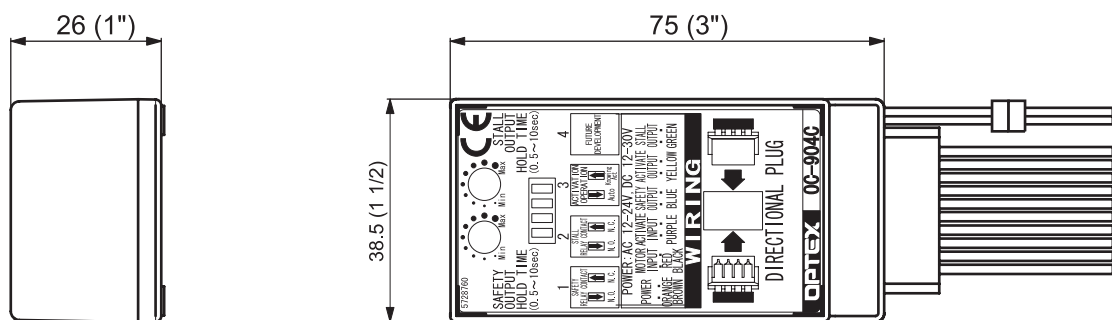
Model	OC-904C
Power Supply	12 - 24V AC, 12 - 30V DC
Current Draw	250mA max.
Output	Activate Output : Form A Relay 50V, 0.3A(Resistance Load) Safety Output : Form C Relay 50V, 0.3A (Resistance Load) Stall Output : Form C Relay 50V, 0.3A (Resistance Load)

Relay Hold Time	
(Safety Output only)	0.5 to 10s
Lockout Timer	0-24sec
Operation Indicator	Green: Standby Red: Door Opening Orange: Lockout
Operating Temperature	-20 - +55degrees (-4F - +131Fdegrees)
Weight	50g (1.8oz.)

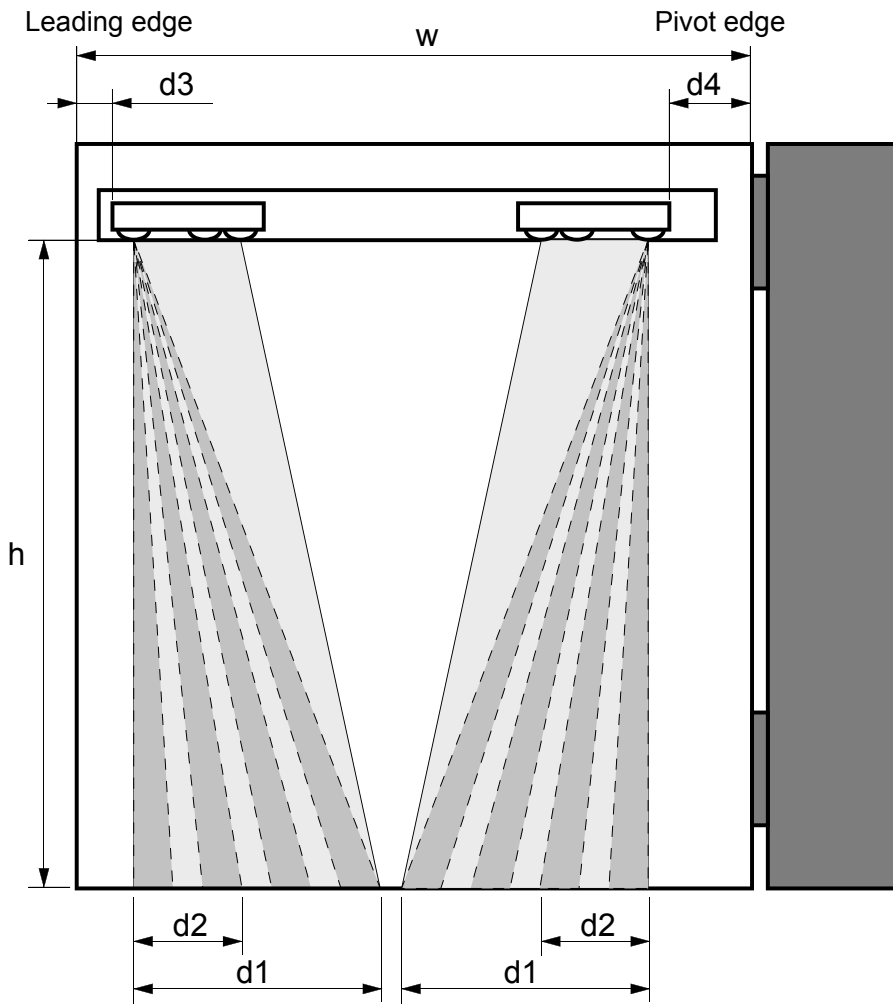
0A-603



OC-904C



Recommended installation position



- W = Door width
- h = Mounting height
- d1/ d2= Detection area width
- d3 = Distance from the leading edge to the sensor module
- d4 = Distance from the pivot edge to the sensor module
- n = Number of sensor modules

unit : mm (inch)

W				914 (36")		1067 (42")		1219 (48")	
h	d1	d2	d3	n	d4	n	d4	n	d4
1800 (5'11")	480 (1'7")	280 (11")	102 (4")*	2	102 (4")	2	152 (6")	2	229 (9")
1900 (6'3")	510 (1'8")	290 (11 7/16")							
2000 (6'7")	525 (1'9")	300 (11 13/16")							
2100 (6'11")	545 (1'10")	310 (12 3/16")							
2200 (7'3")	560 (1'10")	320 (12 5/8")							
2300 (7'7")	590 (1'11")	330 (13")							
2400 (7'11")	605 (1'12")	340 (13 3/8")							
2500 (8'2")	625 (2'1")	350 (13 3/4")							

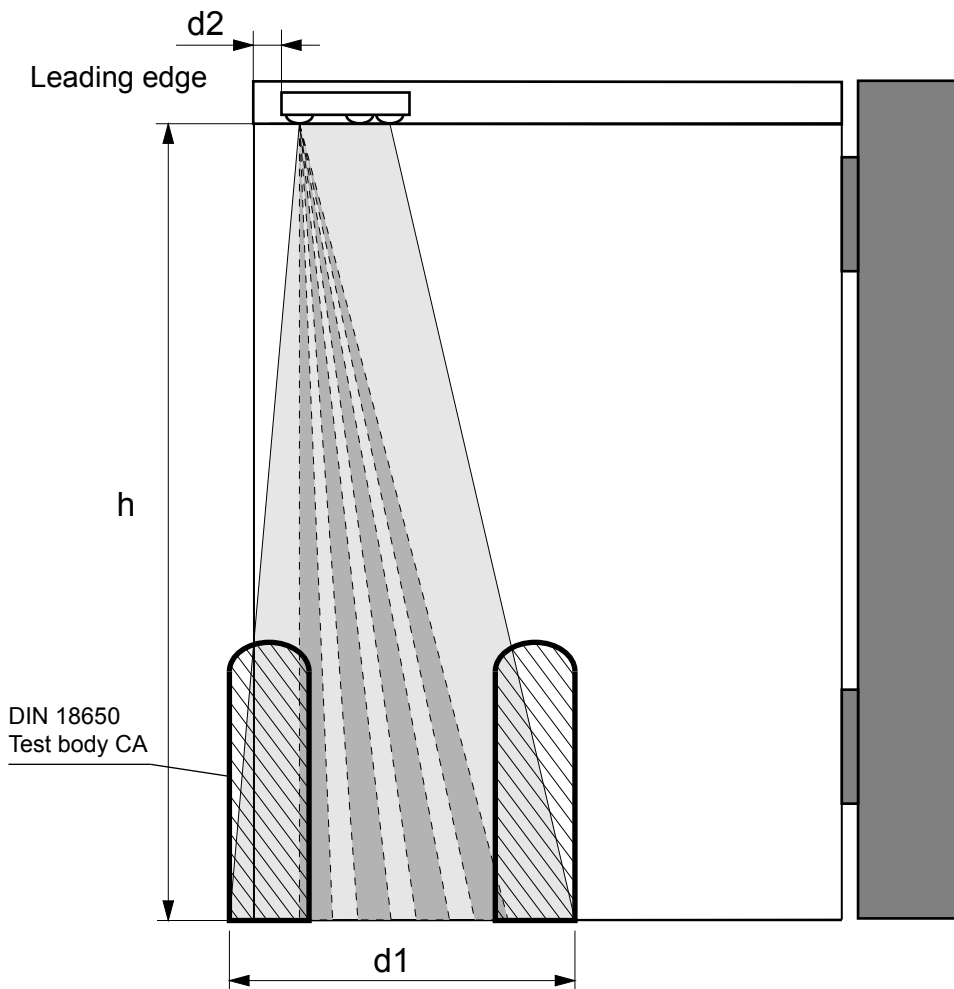
NOTE The actual detection area may become smaller depending on the ambient light, the color / material of the object or the floor as well as the entry speed of the object and selection of inactive area.

Detection area at 2200mm (7' 2 5/8") : Depth 140 (5 1/2") x Width 870 (2' 10")

Emitting area at 2200mm (7' 2 5/8") : Depth 140 (5 1/2") X Width 440 (1' 5 1/2")

NOTE 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.

Recommended installation position



unit : mm (inch)

h	d1	d2
1800 (5'11")	730 (2'5")	70 (2 3/4")
1900 (6'3")	760 (2'6")	70 (2 3/4")
2000 (6'7")	790 (2'7")	70 (2 3/4")
2100 (6'11")	825 (2'9")	70 (2 3/4")
2200 (7'3")	870 (2'10")	70 (2 3/4")
2300 (7'7")	895 (2'11")	70 (2 3/4")
2400 (7'11")	920 (3')	70 (2 3/4")
2500 (8'2")	950 (3'1")	70 (2 3/4")

h = Mounting height

d1 = Detection area width

d2 = Distance from the leading edge to the sensor module

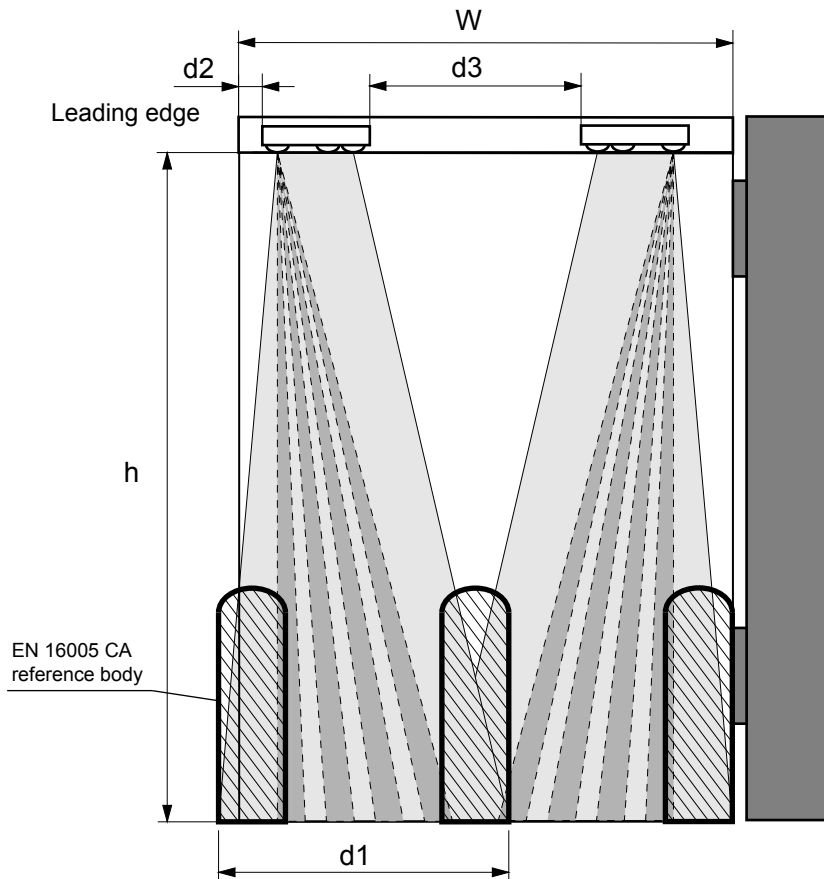
Detection area at 2200mm (7' 2 5/8") : Depth 140 (5 1/2") x Width 870 (2'10")

Test conditions required by EN 16005 Detection object : EN 16005 CA reference body

Emitting area at 2200mm (7' 2 5/8") : Depth 140 (5 1/2") X Width 440 (1' 5 1/2")

NOTE 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.

Recommended installation position



W = Door width

h = Mounting height

d1 = Detection area width

d2 = Distance from the leading edge to the sensor module

d3 = Distance between sensor modules

n = Number of sensor modules

unit : mm (inch)

W			900 (2'12")	1100 (3'7")	1200 (3'11")			
h	d1	d2	n	d3	n	d3	n	d3
1900 (6'3")	760 (2'6")	70 (2 3/4")	2	175 (6 7/8")	2	375 (14 3/4")	2	475 (18 5/8")
2000 (6'7")	790 (2'7")	70 (2 3/4")	2	160 (6 3/8")	2	355 (14")	2	460 (18 1/8")
2100 (6'11")	825 (2'9")	70 (2 3/4")	2	145 (5 6/8")	2	345 (13 5/8")	2	445 (17 1/2")
2200 (7'3")	870 (2'10")	70 (2 3/4")	2	125 (5")	2	320 (12 5/8")	2	420 (16 4/8")
2300 (7'7")	895 (2'11")	70 (2 3/4")	2	115 (4 1/2")	2	315 (12 3/8")	2	415 (16 2/8")
2400 (7'11")	920 (3')	70 (2 3/4")	2	110 (4 1/2")	2	310 (12 2/8")	2	410 (16 1/8")
2500 (8'2")	950 (3'1")	70 (2 3/4")	2	110 (4 3/8")	2	300 (11 6/8")	2	400 (15 3/4")

NOTE For installation heights <1900mm the installation of an extra module will be mandatory in order to comply with the regulations.

Model *	: OA-EDGE1 / OA-EDGE2
Extrusion color	: Silver / Black
Mounting height	: 1.5 (4'11") to 3.0m (9'10")
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 24VAC ±10% (50 / 60 Hz) 12 to 30VDC ±10%
Power consumption	: < 1.3W (< 2VA at AC) at Min. configuration < 3.5W (< 4.5VA at AC) at Max. configuration
LED indicator	: See chart below
Output **	: Form C relay Voltage / 42VDC Current / 0.3A Max (Resistance load)
Output hold time	: Approx. 0.5 sec.
Response time	: <75msec.
Operating temperature	: -20 to +55°C (-4 to 131°F)
Operating humidity	: <80%
IP rate	: IP54








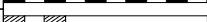

Accessories

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 (4pcs***)
Wire shroud -----	1pcs
Wire shroud cover -----	1pcs (2pcs***)
Power supply cable -----	1pcs
Communication cable -----	Refer to matrix
Manual -----	1pcs

Model	Sensor length	Cable length			
		105 (4")	250 (10")	480 (19")	900 (35")
OA-EDGE 1	13.5	1pcs	1pcs	-	-
	34.5	-	1pcs	1pcs	-
	40	-	1pcs	-	1pcs
	44	-	1pcs	-	1pcs
OA-EDGE 2	34.5	1pcs	1pcs	1pcs	-
	40	1pcs	1pcs	1pcs	-
	44	1pcs	1pcs	1pcs	-

- * : OA-EDGE1 have 1 sensor module (Master only).
OA-EDGE2 have 2 sensor modules (Master + Slave).
- ** : There are two types of output. (Reactivate & Stall)
- *** : This is only OA-EDGE1 13.5

LED indicator

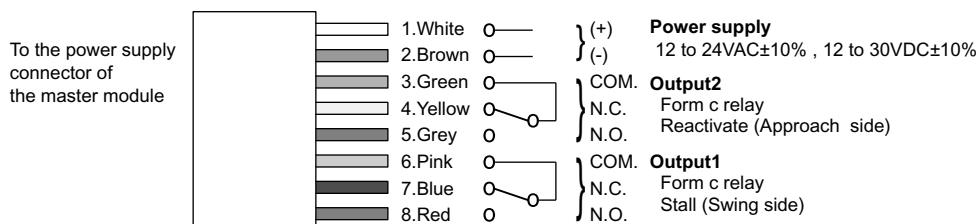
Status	Sensor module indicator	LED module indicator
Stand-by	Solid Green	
Opening side detection (output 1)	Solid Red	
Closing side detection (output 2)	Solid Orange	
Incomplete Initialization	Red & Green blinking	
Learning	Blinking Yellow	
Incomplete learning	Yellow & Red blinking	
Signal saturation	Slow Red blinking	
Sensor failure	Fast Red blinking	
Communication error	Twice Orange blinking	

LED module indicator
The color depends on the state of the output.

Safety / Test output 1
OFF : Solid Green
ON : Solid Red

Safety / Test output 2
OFF : Solid Green
ON : Solid Orange

Wiring



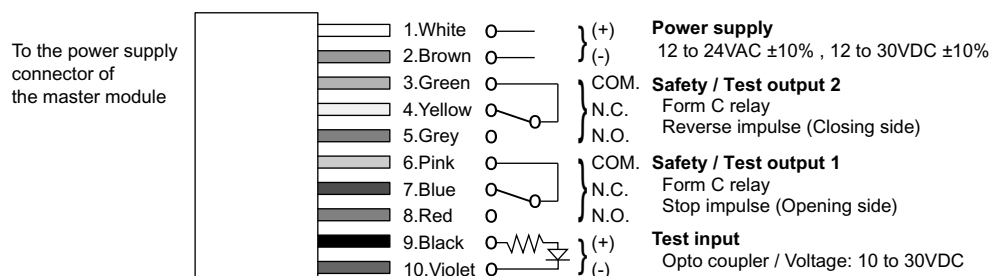
Profile color	: Silver / Black
Mounting height	: 1.5 (4'11") to 3.0m (9'10")
Detection method	: Triangulation
Min. configuration	: 1 master module +1 LED module
Max. configuration	: 4 sensor modules +2 LED modules
Depth angle adjustment	: 0° to +25°
Power supply	: 12 to 24VAC ±10% (50 / 60 Hz) 12 to 30VDC ±10%
Power consumption	: < 1.3W (< 2VA at AC) at Min. configuration < 3.5W (< 4.5VA at AC) at Max. configuration
LED indicator	: See chart below
Test input	: Opto coupler 10 to 30VDC Current / 6mA Max.
Safety / Test output 1	: Form C relay
Safety / Test output 2	Voltage / 42VDC Current / 0.3A Max (Resistance load) Output : see drawing below
Output hold time	: Approx. 0.5 sec.
Response time	: <75msec.
Operating temperature	: -20 to +55°C (-4 to 131°F)
Operating humidity	: <80%
IP rate	: IP54

* : The sensor has to be connected to a door system is equipped with a SELV circuit.
The overcurrent protection of power supply cable has to be less than 2A.

LED indicator

Status	Sensor module indicator	LED module indicator
Stand-by	Solid Green	LED module indicator The color depends on the state of the output. Safety / Test output 1 OFF : Solid Green ON : Solid Red Safety / Test output 2 OFF : Solid Green ON : Solid Orange
Opening side detection (output 1)	Solid Red	
Closing side detection (output 2)	Solid Orange	
Incomplete Initialization	Red & Green blinking	
Learning	Blinking Yellow	
Incomplete learning	Yellow & Red blinking	
Signal saturation	Slow Red blinking	
Sensor failure	Fast Red blinking	
Communication error	Twice Orange blinking	

Wiring












Profile color	: Silver / Black
Mounting height	: 1.5 (4'11") to 3.0m (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° to +25°
Power supply	: 12 to 24VAC ±10% (50 / 60 Hz) 12 to 30VDC ±10%
Power consumption	: < 1.3W (< 2VA at AC) at Min. configuration < 3.5W (< 4.5VA at AC) at Max. configuration
LED indicator	: See chart below
Test input	: Opto coupler 10 to 30VDC Current / 6mA Max.
Safety / Test output 1	: Form C relay
Safety / Test output 2	Voltage / 42VDC Current / 0.3A Max (Resistance load) Output : see drawing below
Output hold time	: Approx. 0.5 sec.
Response time	: <75msec.
Operating temperature	: -20 to +55°C (-4 to 131°F)
Operating humidity	: <80%
IP rate	: IP54
Noise level	: <70dBA
Category	: 2 (EN ISO13849-1 : 2008)
Performance level	: d (EN ISO13849-1 : 2008)

* : To comply with DIN18650 to install the sensor at 1.8m (5'11") to 2.5m (8'2").

* : The sensor has to be connected to a door system is equipped with a SELV circuit.
The overcurrent protection of power supply cable has to be less than 2A.

LED indicator

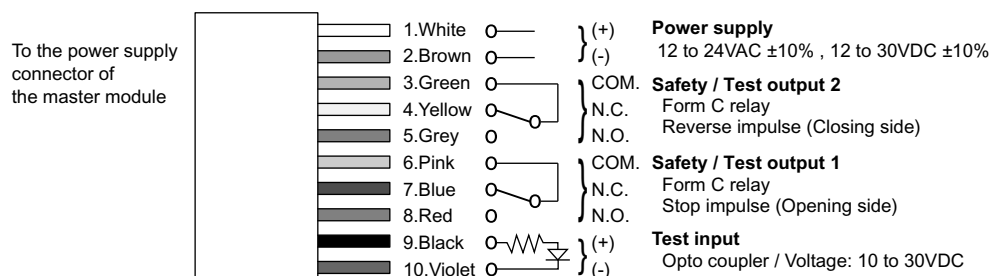
Status	Sensor module indicator	LED module indicator
Stand-by	Solid Green	
Opening side detection (output 1)	Solid Red	
Closing side detection (output 2)	Solid Orange	
Incomplete Initialization	Red & Green blinking	
Learning	Blinking Yellow	
Incomplete learning	Yellow & Red blinking	
Signal saturation	Slow Red blinking	
Sensor failure	Fast Red blinking	
Communication error	Twice Orange blinking	

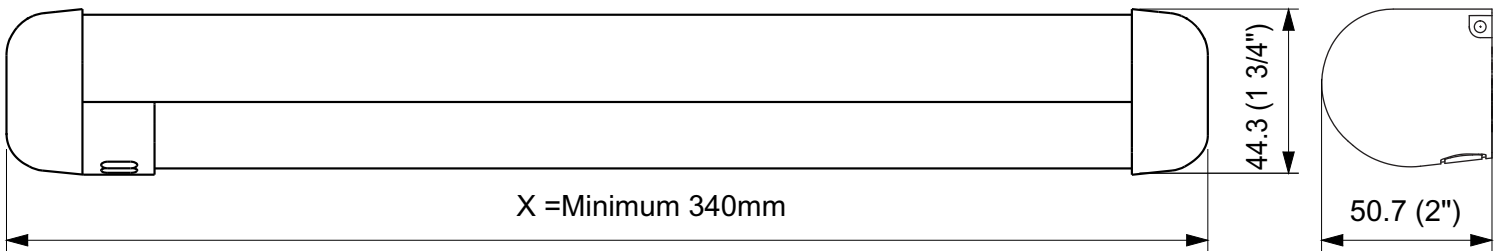
LED module indicator
The color depends on the state of the output.

Safety / Test output 1
OFF : Solid Green
ON : Solid Red

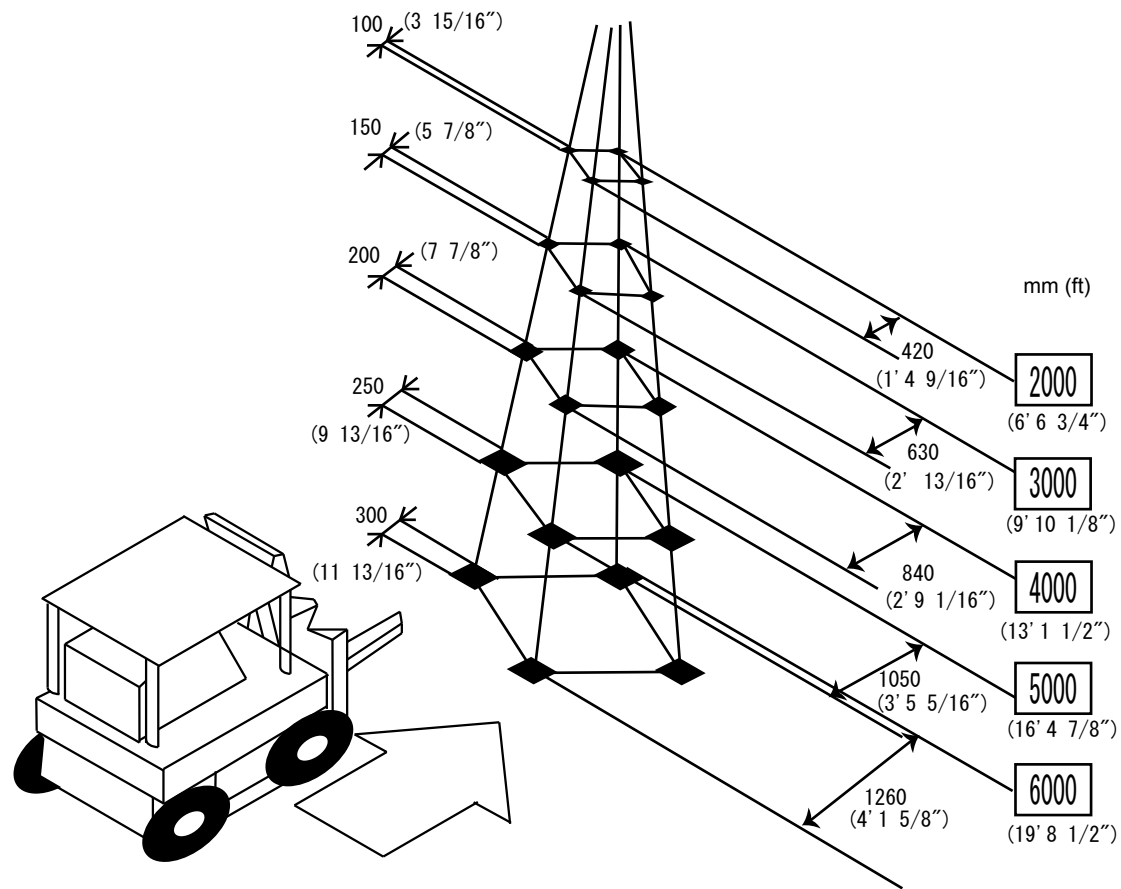
Safety / Test output 2
OFF : Solid Green
ON : Solid Orange

Wiring





Unit:mm(inch)

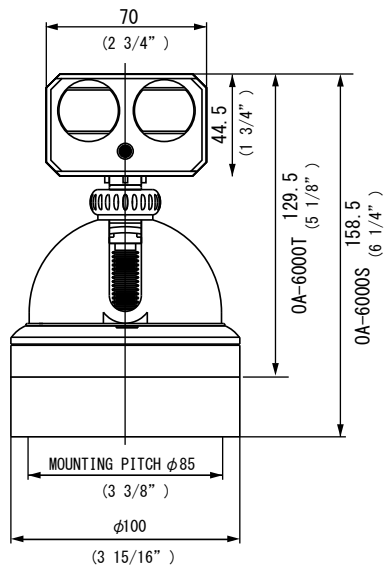


The actual Detection Area may become smaller depending on the ambience light and the colour / material of object and the floor as well as the entry speed of object.

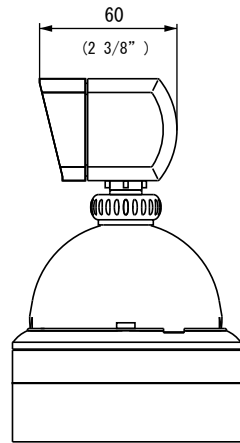
Model	:0A-6000S
Detection Range	:2~6m
Detection Method	:Active Infrared Reflection Method
Detection Range (vertical)	:-80° ~+80° (Deep/Shallow)
Detection Range (right & left)	:360°
Power Supply	:24V \overline{DC}
Power Consumption	:<65mA (24VDC)
Operation Indicator	:LED ON:Stand-by LED OFF:Detection LED Blink:Presence Detection
Output	:NPN Max. 40mA/DC24V
Relay Hold Time	:Approx. 0.5sec.
Operating Temperature	:-20°C to +55°C
Weight	:200g
Accessories	:Mounting Screw X 1set Operation Manual X 1 Mounting Template X 1

Model	:0A-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	:<105mA (24VDC)
Operation Indicator	:LED ON:Stand-by LED OFF:Detection LED Blink:Presence Detection
Output	:“Form A” relay AC100V 1A, DC30V 0.1A Max
Relay Hold Time	:Approx. 0.5sec.
Operating Temperature	:-20°C to +55°C
Weight	:290g
Accessories	:Mounting Screw X 1set Operation Manual X 1 Mounting Template X 1

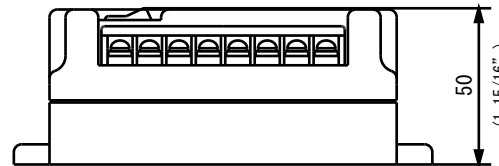
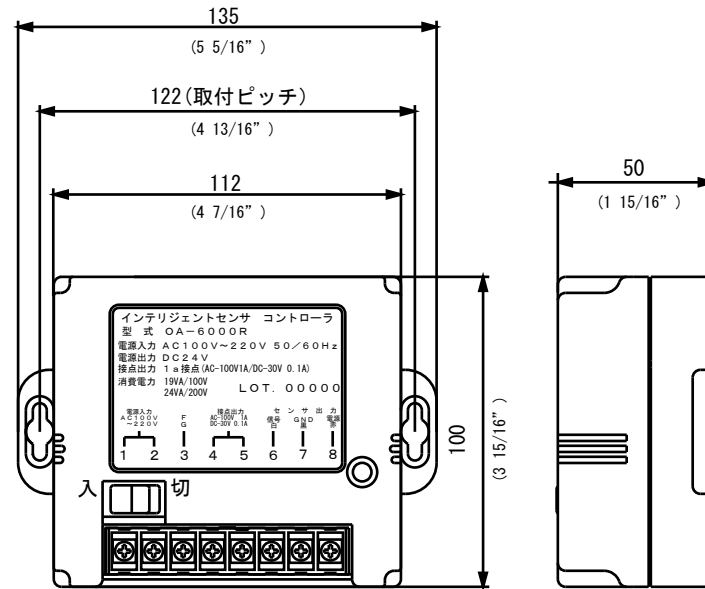
Model	:0A-6000R
Power Supply	:100V to 220V AC
Power Consumption	:<25VA (100V AC) <32VA (200V AC)
Operation Indicator	:LED ON:Power ON LED OFF:Power OFF
Output	:“Form A” relay AC100V 1A, DC30V 0.1A Max
Relay Hold Time	:Approx. 0.5sec.
Operating Temperature	:-20°C to +55°C
Weight	:290g
Accessories	:Mounting Screw X 1set Operation Manual X 1 Mounting Template X 1



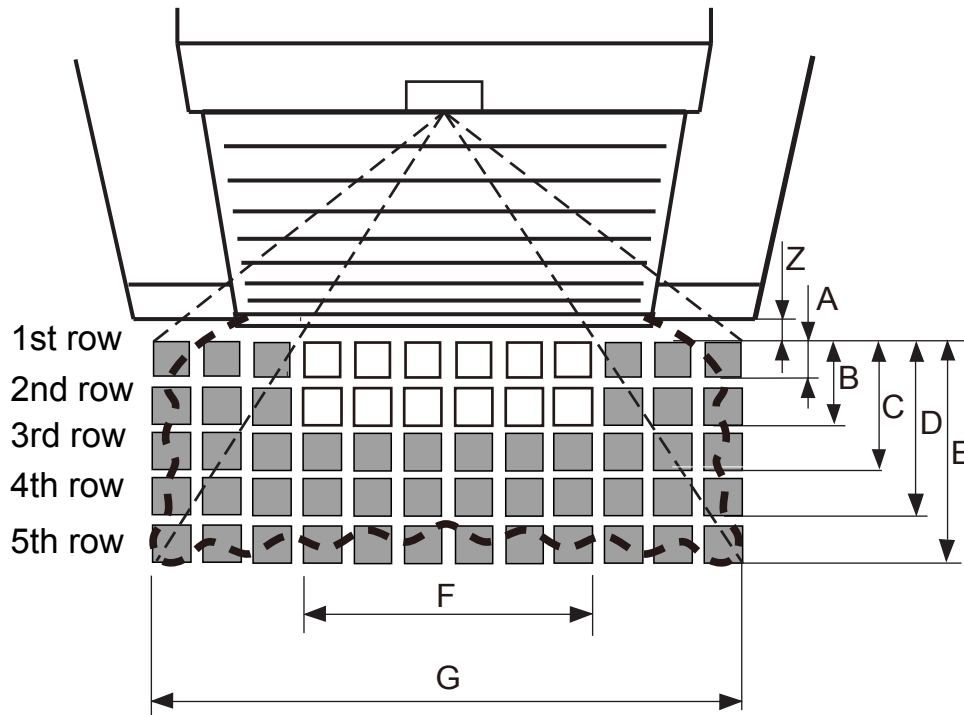
OA-6000T/S



OA-6000R



mm (inch)



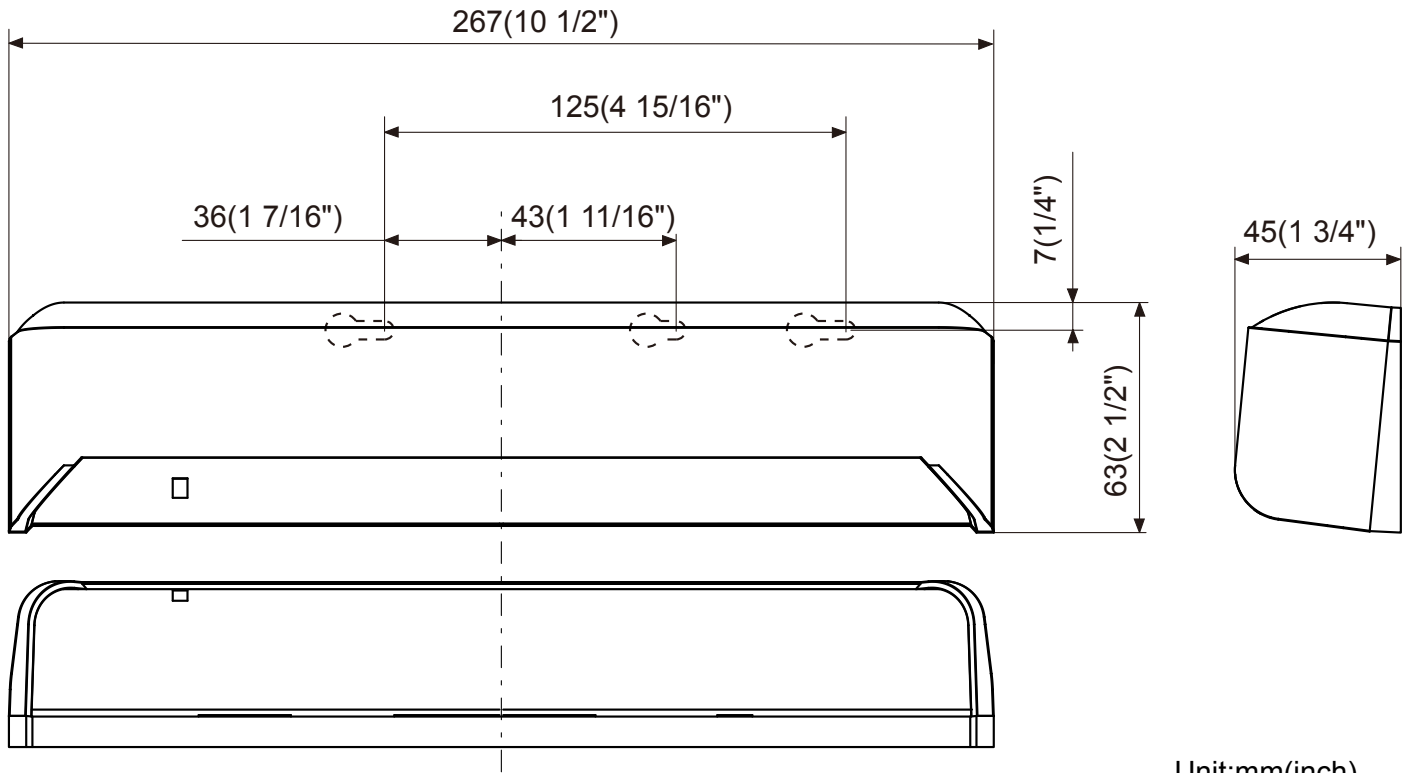
□ : Emitting spots □ : Detection Area

■ : Emitting spots (Can be eliminated)

[mm(feet,inch)]

Mounting Height	2,500 (8'2")	3,000 (9'10")	3,500 (11'6")	4,000 (13'2")	4,500 (14'9")
A	160 (6")	200 (8")	230 (9")	260 (10")	290 (11")
B	480 (1'7")	580 (1'11")	670 (2'2")	760 (2'6")	850 (2'9")
C	930 (3'6")	1,100 (3'7")	1,300 (4'3")	1,480 (4'11")	1,660 (5'5")
D	1,540 (5'1")	1,850 (6'1")	2,160 (7'1")	2,460 (8'1")	2,760 (9'1")
E	2,170 (7'1")	2,600 (8'6")	3,030 (9'11")	3,460 (11'4")	3,890 (12'9")
F	1,510 (4'11")	1,810 (5'11")	2,110 (6'11")	2,400 (7'11")	2,700 (8'10")
G	3,150 (10'4")	3,790 (12'5")	4,420 (14'6")	5,050 (16'7")	5,680 (18'8")
Z	250 (10")	300 (12")	350 (1'2")	400 (1'4")	450 (1'6")

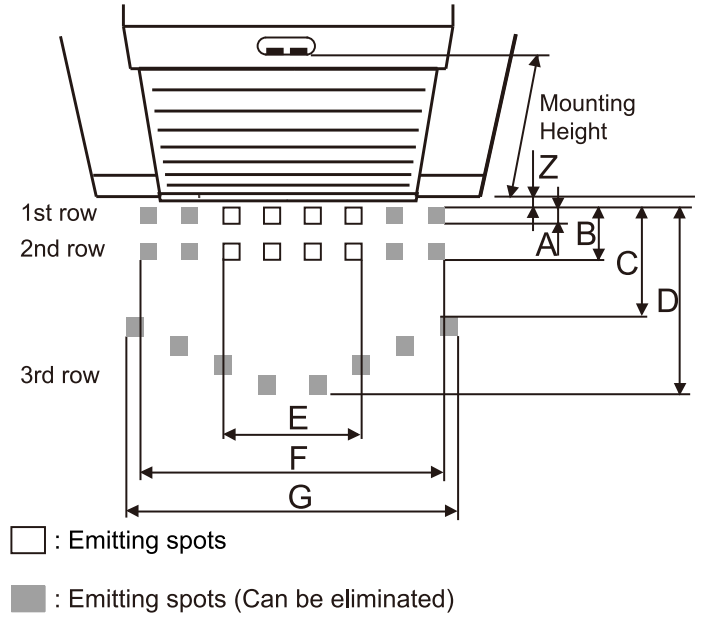
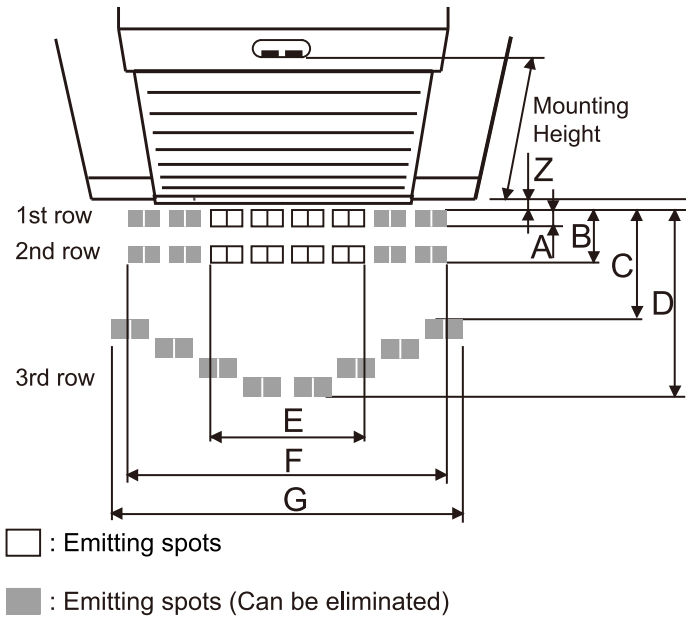
Model	: OA-4500S(E)
Color	: Black
Mounting Height	: 2.5m(8'2") to 4.5m(14'9)
Detection area	: See DETECTION AREA
Detection method	: Active infrared reflection method (All presence detection)
Depth adjustment	: 1st to 3rd rows: -6° to +6° 4th and 5th rows: +26° to +44°
Power supply	: 12 to 24V AC \pm 10% (50/60Hz) 12 to 30V DC \pm 10%
Power consumption	: < 2.5W (< 4VA at AC)
Operation indicator	: Green / Stand-by Red / 1st row detection Orange / 2nd to 5th rows detects
Activation output	: When 3rd, 4th or 5th row detects. N.C. / N.O. selectable 50V0.3A MAX.(Resistance load)
Safety output	: When 1st or 2nd row detects. N.C. / N.O. selectable 50V0.3A MAX.(Resistance load)
Output hold time	: Approx. 0.5 sec.
Response time	: <0.3 sec.
Operation temperature	: -20°C to +55°C(-4°F to 131°F)
Operating humidity	: <80%
IP rate	: IP54
Weight	: 320g(11.3oz)
Accessories	: 1 Cable 4m(13'2") 2 Mounting screws 1 Mounting template 1 Operation manual 1 Area adjustment tool



Unit:mm(inch)

[Standard window]

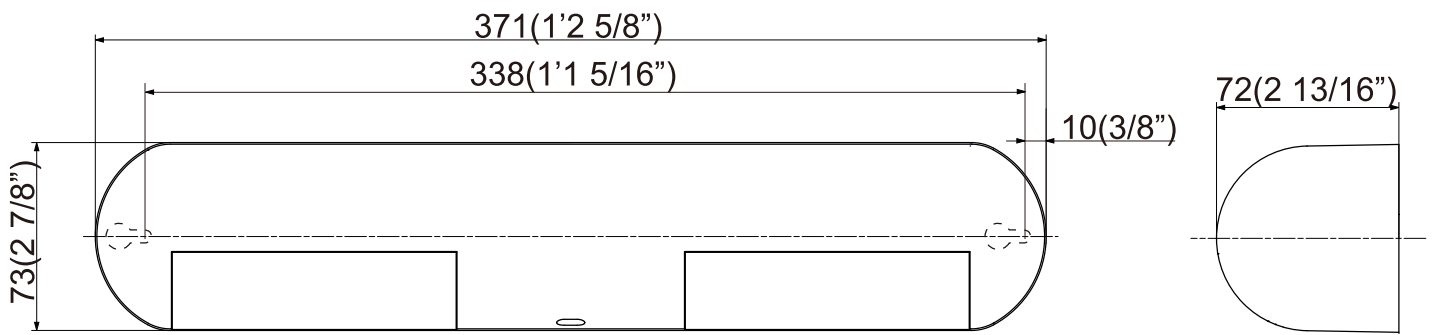
[High mount window]



[mm(feet,inch)]

Window	Standard window			High mount window	
Mounting Height	2,500 (8'2")	3,500 (11'6")	4,500 (14'9")	5,500 (18'1")	6,500 (21'4")
A	150 (6")	210 (8")	280 (11")	340 (1'1")	400 (1'4")
B	560 (1'10")	790 (2'7")	1010 (3'4")	1240 (4'1")	1470 (4'10")
C	680 (2'3")	960 (3'2")	1240 (4'1")	1510 (4'11")	1790 (5'11")
D	1340 (4'5")	1870 (6'2")	2410 (7'11")	2940 (9'8")	3480 (11'5")
E	1530 (5'1")	2150 (7'1")	2760 (9'1")	2790 (9'2")	3300 (10'10")
F	3640 (11'11")	5100 (16'9")	6560 (21'7")	7230 (23'9")	8550 (28'1")
G	3840 (12'7")	5380 (17'8")	6910 (22'8")	7620 (25')	9010 (29'7")
Z	150 (6")	220 (9")	280 (11")	340 (1'1")	410 (1'4")

Model	: OA-6500S(E)
Color	: Black
Mounting Height	: 2.5m(8'2") to 6.5m(21'4")
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 24V AC ±10% (50/60Hz) 12 to 30V DC ±10%
Power consumption	: <2.5W (< 3.5VA at AC)
Operation indicator	: Green / Stand-by Red / 1st row detection Orange / 2nd and 3rd rows detection
Activation output	: When 3rd rows detect. N.C. / N.O. selectable 50V0.3A MAX.(Resistance load)
Safety output	: When 1st or 2nd row detects. N.C. / N.O. selectable 50V0.3A MAX.(Resistance load)
Output hold time	: Approx. 0.5 sec.
Response time	: <0.3 sec.
Operation temperature	: -20°C to +55°C(-4°F to 131°F)
Operating humidity	: <80%
IP rate	: IP44
Weight	: 600g(21.2 oz)
Accessories	: 1 Cable 4m(13'2") 2 Mounting screws 1 Mounting template 1 Operation manual 1 High mount window 1 Protection sticker



Unit:mm(inch)