



AIR

Mounting height : 2.2 m (7'3")
 Angle adjustment : +6°
 Sensitivity : Middle
 □ : Emitting spots
 ■ : Emitting spots (can be eliminated)
 □ : Detection area

Radar

Mounting height : 2.2 m (7'3")
 Vertical adjustment : +35°
 Sensitivity : High
 Area width : Wide
 Speed of detection object : 50 mm/s
 ○ : Detection area

AIR 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 | 0.05 (2") | 0.06 (2") | 0.07 (3") | 0.07 (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 (1'3") |
| 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 (2'7") | 0.89 (2'11") | 1.03 (3'5") |
| G | 1.21 (3'12") | 1.33 (4'4") | 1.51 (4'11") | 1.63 (5'4") | 1.81 (5'11") | 2.11 (6'11") |
| 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") |

AIR detection area

To comply with EN 16005, make sure that the detection area is within the values of the chart below.

| | [m(feet,inch)] | | | Test conditions required by EN 16005 |
|----|----------------|-------------|---------------|---|
| A | 2.00 (6'7") | 2.20 (7'3") | 3.00 (9'10") | Floor : Grey paper |
| X | 0.23 (9") | 0.25 (10") | 0.34 (1'1") | Detection object : EN 16005 CA reference body |
| G | 1.02 (3'4") | 1.12 (3'8") | 1.53 (5') | Sensitivity : Middle |
| I* | 2.41 (7'11") | 2.65 (8'8") | 3.60 (11'10") | Speed of detection object : 50 mm/s |

The values above are those of the **AIR detection area** when tested referring to the test conditions of EN 16005.

(The emitting area is as shown in **AIR emitting area** above.)

* When installed at higher than 3.0 m(9'10"), EN 16005 requirements are fulfilled only within the area width "I" of 3.6 m(11'10").

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. The sensor may not be activated when the entering speed of the object or a person is slower than 50 mm/s or faster than 1500 mm/s.

| | | | |
|----------------------------|--|-------------------|--------------------------------|
| Model | : OAM-DUAL T | Activation output | : Form A relay 50 V 0.3 A Max. |
| Cover color | : Black | Safety output | : Form A relay 50 V 0.3 A Max. |
| Mounting height | : 2.0 to 3.5 m (6'7" to 11'6") | Test input | : Opto coupler |
| Detection area | : See Detection area | | Voltage 5 to 30 VDC |
| Detection method | : Active infrared reflection (*1) | | Current 6 mA Max. (30 VDC) |
| | Microwave Doppler effect | IP rate | : IP54 |
| Transmitter frequency | : 24.125 GHz | Category | : See Table 1 |
| Transmitter radiated power | : < 20 dBm | Performance level | : See Table 1 |
| Depth angle adjustment | : AIR area -6 to +6° | ESPE | : Type 2 |
| | Radar area +25 to +45° | Weight | : 270 g (9.5 oz) |
| Power supply (*2) | : 12 to 24 VAC ±10 % (50/60 Hz) | Accessories | : 1 Operation manual |
| | 12 to 30 VDC ±10 % | | 2 Mounting screws |
| Power consumption | : < 2.5 W (< 4 VA at AC) | | 1 Mounting template |
| Operation indicator | : See Operation indicator table | | 1 Area adjustment tool |
| Output hold time | : < 500 ms | | 1 Cable 3 m (9'10")(3) |
| Response time | : < 300 ms | | |
| Operating temperature | : -20 to +55°C (-4 to 131°F) | | |
| Operating humidity | : < 80 % (non-condensing) | | |
| Noise level | : < 70 dBA | | |

Table 1

| | | |
|----------|------|------------------------|
| AIR part | Cat. | 2 (EN ISO13849-1:2015) |
| | PL | d (EN ISO13849-1:2015) |

Operation indicator table

| Status | Operation indicator color | 1000 ms | 1000 ms |
|--|---------------------------|---------|---------|
| Warm-up | Yellow blinking | | |
| Stand-by (Installation mode) | Yellow | | |
| Stand-by (Service mode) | Yellow & Green blinking | | |
| Stand-by (Operation mode) | Green | | |
| BLUEZONE (Lookback) detection (*4) | Blue | | |
| 2nd row detection | Red blinking | | |
| 3rd row detection | Red | | |
| Radar detection | Orange | | |
| Communication Test output | Turn off 500 ms (*5) | | |
| Setting error | Red & Green blinking | | |
| Signal saturation | Slow Green blinking | | |
| Sensitivity too low(or Sensor failure) | Fast Green blinking | | |

NOTE

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

- *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 2 A.
- *4 : See **BLUEZONE (Lookback) area**
- *5 : LED will be turned off approx. 500 ms when the sensor Test output signal works well.

