

Active Infrared Sensor for Door Pocket Safety



OA-PRESENCE TN



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

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



Unified Design

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

Easy Installation

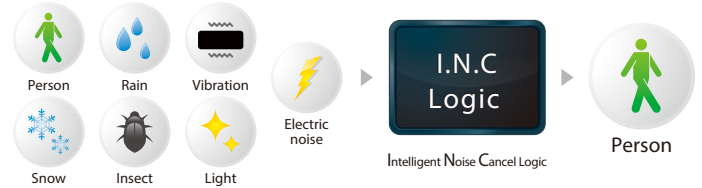
Installation time can be reduced to a minimum by using easily dip switch settings and mechanical adjustments.

European Regulation

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

I.N.C. logic

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



Specifications

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

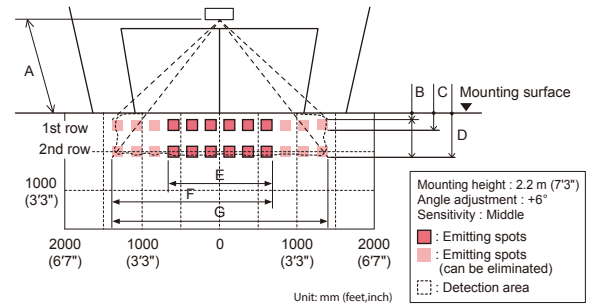
*1 : Active infrared reflection has a presence detection function.

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

*3 : Overcurrent protection with less than 2A.

Detection Area

Emitting Area

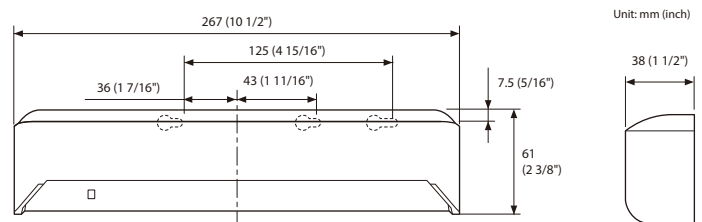


The chart shows the values at depth angle +6°

Unit: m (feet)

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

Dimensions



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