

OPTEX i-OneX T Quick Setup Guide

For detailed information, please refer to the installation manual supplied with each sensor. For OEM specific wiring connections and notes please refer to the i-OneX T Connection Matrix.

Sensor Mounting Location

Header

Use supplied Mounting Template. Place template so that it is in the center of the clear door opening and so that the bottom of the template is between 1/4" and 2" from the bottom edge of the header.

Align with center of clear door opening

Drill (2) 1/8" holes and (1) 5/16" hole as indicated on the template. Remove template from header. Remove the cover from the sensor. Fasten the sensor securely to the header using the supplied screws (do not over-torque screws or sensor body may distort).

Remove Cover

Remove the cover

Insert
Screw driver

Slide forward to remove cover

Dipswitch Settings

Dipswitch	Function	Setting 1	Setting 2	Setting 3	Setting 4	Notes
Dipswitch 3 Dipswitch 4	Frequency	Setting 1 3 4	Setting 2 3 4	Setting 3 3 4	Setting 4 3 4	When using more than one sensor close to each other, set the frequency different for each sensor
Dipswitch 5	BLUEZONE™	OFF 5	ON 5			When dipswitch 5 is set to "ON", the BLUEZONE (1st row) is active and looks through the threshold.
Dipswitch 13	Direction	Bi 13	Uni 13			When dipswitch 13 is set to "Uni", this enables the door to close faster when a person walks away from the door.
Dipswitch 14	Simultaneous output	OFF 14	ON 14			When dipswitch 14 is set to "ON", both the activation & safety relay outputs will operate simultaneously regardless of detection area. But only the Safety output relay will respond back with a Safety output when it receives a Safety input.
Dipswitch 15	Safety Output (to door controller)	N.O. 15	N.C. 15			Select "N.O."/"N.C." for Safety output.
Dipswitch 16	Safety Input (from door controller)	High 16	Low 16			The delay time between Safety input and Safety output is 10 msec.
Dipswitch 18	Installation Mode	OFF 18	ON 18			Set dipswitch 18 to "ON" to adjust the 2nd row. During the installation mode only the 2nd row remains active and the operation indicator shows yellow. After setting the row, turn dipswitch 18 "OFF".

Adjusting the Pattern Width

Left eliminated Right eliminated

Width adjustment screws

Opens all areas Opens all areas

1 2 3 elimination 7 8 9 elimination

The width of the Approach area can be adjusted by changing Dipswitches 8-10 as shown below.

Dipswitches

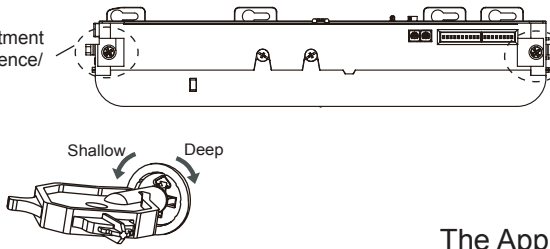
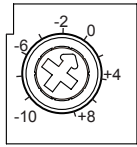
8 9 10 1 2 3 4 5 6 7 8

Active area
Inactive area

(continue other side)

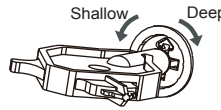
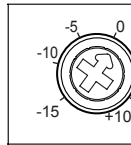
Area Depth Angle Adjustments

Depth angle adjustment screw for the Presence/Motion area.



The Presence/Motion area angle depth adjustment screw adjusts rows 1-5 simultaneously.

Depth angle adjustment screw for the Approach area.



The Approach area angle depth adjustment screw adjusts row 6 independently.

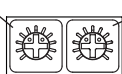
Note: Walk Test

Power up sensor and wait 10 seconds prior to walk testing the presence area. Perform walk test procedure to verify substantial compliance with ANSI/BHMA A156.10 section 8.

Sensitivity Adjustment

Presence/Motion sensitivity

Low



Approach sensitivity

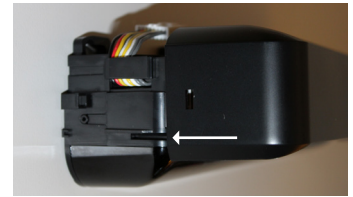
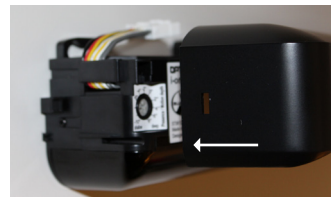
High

Use the area adjustment tool to change sensitivity.

The Presence/Motion sensitivity potentiometer is used to adjust the detection area sensitivity for rows 1-5. The Approach sensitivity potentiometer is used to adjust the detection area sensitivity of row 6. Turning clockwise increases the sensitivity; turning counterclockwise decreases the sensitivity.

Cover Installation

The cover locking tab on the sensor must align with the locking catch on the sensor cover.



Push cover straight into the locking tab on the sensor.

Troubleshooting

Operation indicator table

Status	Operation Indicator color	
Stand-by (installation mode)	Yellow	→ 1sec →
Stand-by (operation mode)	Green	→ 1sec →
BLUEZONE (1st row) detection	Blue	→ 1sec →
2nd row detection	Red blinking	→ 1sec →
3rd-4th row detection	Red	→ 1sec →
5th row detection	Orange	→ 1sec →
Approach (6th row) detection	Orange blinking	→ 1sec →
Signal saturation	Slow green blinking	→ 1sec →
Sensor failure	Fast green blinking	→ 1sec →

Operation LED turns FLASHING RED, then the door reopens (Row 2 Presence Detection Door).

Adjust Presence/Motion adjustment screw Clockwise until ghosting stops.

Note: Before making adjustments set dipswitch 18 ON, once adjustment are complete set dipswitch 18 Off.

Note: Walk Test

Perform walk test procedure to verify substantial compliance with ANSI/BHMA A156.10 section 8.



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