

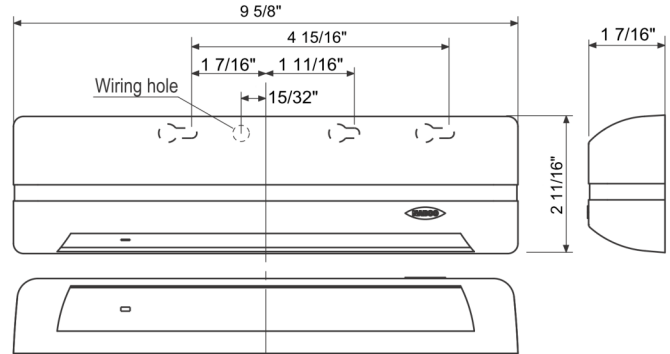
**CAUTION: All adjustments and final door operation must conform to ANSI 156.10**



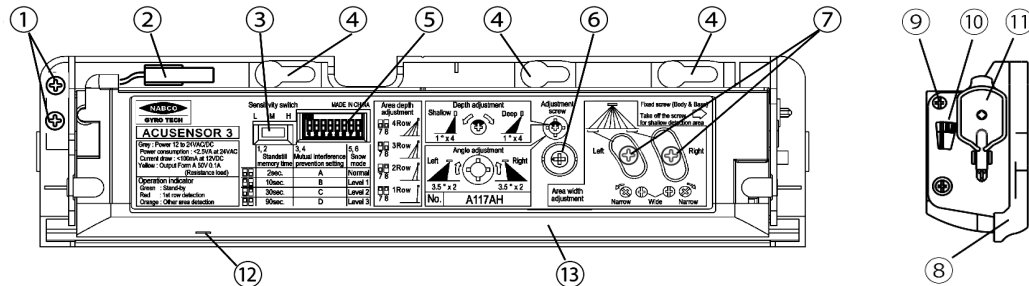
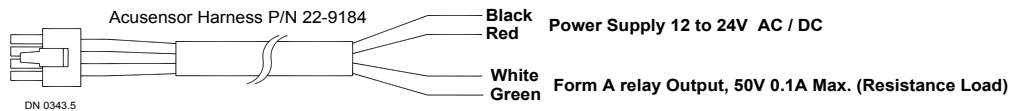
**CAUTION: This Sensor Cannot be used for Presence Detection on the Pull Side of Swing door.**

**“Quick Set-Up” General Wiring and Settings for Acusensor 3**  
For greater details, see the Acusensor 3 Manual (P.N. 15-8911-3)

Part Description	Acusensor 3
Part Number	14-8902-3
Sensing System	Active reflective infrared system (Motion / Presence)
Power source	12 to 24V AC or DC Class 2
Recommended Temperature Range	-20 to +55°C (-4 to 131°F)
Power consumption	<2.5VA @24VAC, <100mA @12VDC
Output Contacts Rating	Form A relay, 50V 0.1A Max. (Resistance load) No Detection: “OPEN”, Detection: “CLOSED”, Power failure: “OPEN”
Mounting height	6’6” (2m) to 9’10” (3m)
Detection area (when mounted at the height of 118”)	Max. depth: 74.8” Max. width: 130.7” See page 10, figure 10 for more details
Output display	Green / Stand-by Red / 1st Row Detection Active Orange / 2nd Row Detection Active See page 13 for more details
Standstill memory time (learn time)	2 sec, 10 sec, 30sec, and 90sec
Output holding time	0.5 seconds
Weight	Approximately 1/2 lbs (8.5oz)
Color	Black



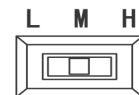
Entry	Power off	Outside of detection area	Entry into 3rd or 4th row	Entry into 2nd row	Entry into 1st row	Outside of detection area
(Image)						
Operation LED	None	Green	Orange		Red	Green
Output	Break		During detection or within presence time or relay hold time			When relay hold time is over after leaving detection area



- ① Mounting screws
- ② Connector
- ③ Sensitivity switch
- ④ Mounting holes
- ⑤ Dipswitches
- ⑥ Angle adjustment screw
- ⑦ Width adjustment screws
- ⑧ Base
- ⑨ Fixed screw (Body & Base)
- ⑩ Base angle scale
- ⑪ Angle adjustment tool
- ⑫ LED indicator
- ⑬ Detection window

**Sensitivity setting**

Under normal circumstances the medium setting should be used. When adequate detection cannot be achieved, use a higher sensitivity. If the Acusensor 3 activates unnecessarily, use the lower sensitivity.



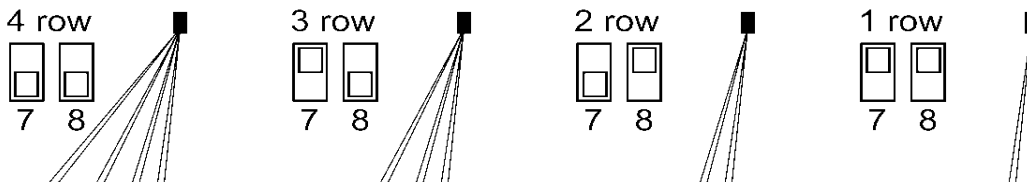
Presence timer determines the time needed by the sensor to learn an area, or relearn changes within that area.	Sensors placed close to each other should be set to different Interference Prevention Settings.	Snow mode is only active when the temperature is at, or below 41°F (5°C) Level 3 has the highest immunity																														
<table border="1"> <tr> <td>Presence timer</td> <td>2sec.</td> <td>10sec.</td> <td>30sec.</td> <td>90sec.</td> </tr> <tr> <td>Dipswitch</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Presence timer	2sec.	10sec.	30sec.	90sec.	Dipswitch					<table border="1"> <tr> <td>frequency</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td>Dipswitch</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	frequency	A	B	C	D	Dipswitch					<table border="1"> <tr> <td>Snow mode</td> <td>Normal</td> <td>Level 1</td> <td>Level 2</td> <td>Level 3</td> </tr> <tr> <td>Dipswitch</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Snow mode	Normal	Level 1	Level 2	Level 3	Dipswitch				
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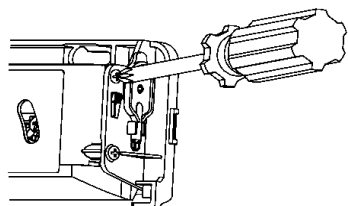
**“Quick Set-Up” General Wiring and Settings for Acusensor 3**  
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**Set the rows using dipswitches 7 and 8**

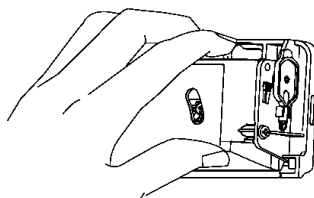


**CAUTION** Delayed activation can occur as rows are eliminated

**Setting the base angle**

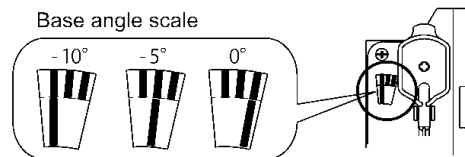


① Remove the Fixed screw (Body & Base)



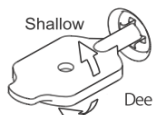
② Set the Base angle  
10° to 0° adjustable by 2.5° every one click

It's possible to confirm the angle by the scale.

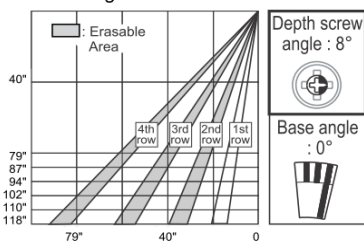


**Setting the depth screw angle**

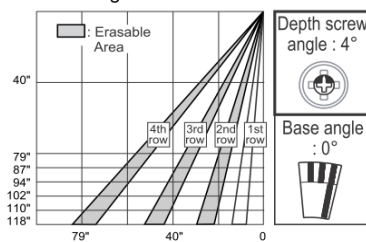
0° to 8° adjustable by 1° every one click as shown below



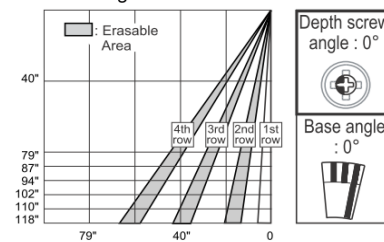
Depth screw angle : 8°  
Base angle : 0°



Depth screw angle : 4°  
Base angle : 0°



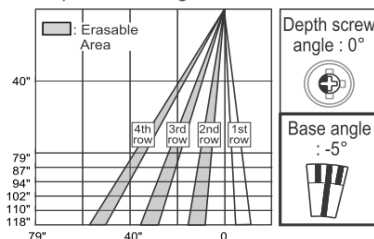
Depth screw angle : 0°  
Base angle : 0°



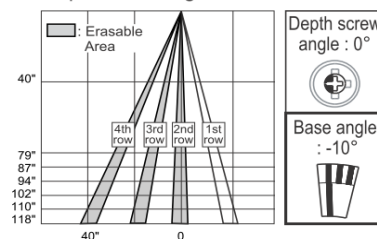
The variable range

	Range	One click
Depth screw angle	0° to 8°	1°
Base angle	-10° to 0°	2.5°
Total angle	-10° to 8°	-

Base angle : -5°  
Depth screw angle : 0°



Base angle : -10°  
Depth screw angle : 0°



**CAUTION**

When detection area is tilted toward the door, the bottom edge of the header can block the sensor pattern if the sensor is installed too high on the header. DO NOT install sensor higher than 4.5 inches above the bottom edge of the header.

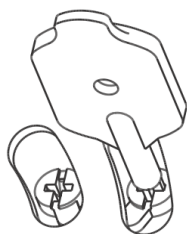
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**“Quick Set-Up” General Wiring and Settings for Acusensor 3**  
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**To adjust the pattern width**

Areas 1 and 2 can be eliminated and/or areas 7 and 8.  
(1 and 2 cannot be separated, neither can 7 and 8)

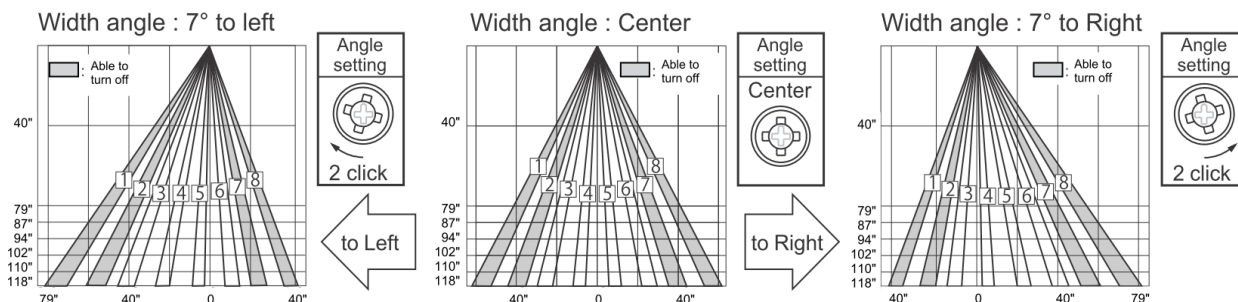
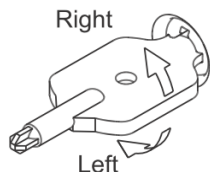


All areas on	Eliminate 1 2	Eliminate 7 8	Eliminate 1 2 7 8

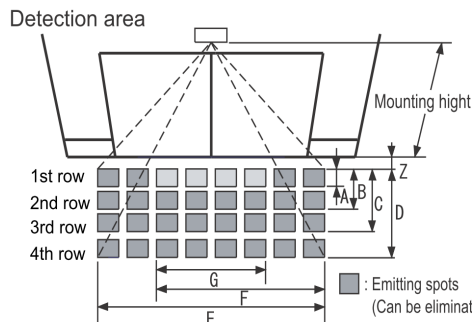
See below for areas affected

**To adjust the width angle**

Use the adjustment tool as shown below to change the width angle.  
±7° can be achieved in 3.5° steps each click ( Right / Left )



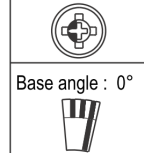
**Coverage Chart**



Mounting Height	79"	87"	94"	102"	110"	118"
A	6.3"	6.7"	7.5"	7.9"	8.7"	9.4"
B	16.5"	18.1"	20"	21.7"	23.2"	25.2"
C	31.5"	34.6"	37.8"	40.9"	44.1"	47.6"
D	49.6"	54.7"	59.8"	64.6"	69.7"	74.8"
E	87"	95.7"	104.3"	113"	121.7"	130.7"
F	62.6"	68.9"	75.2"	81.5"	87.8"	94.1"
G	40.9"	44.9"	48.8"	53.1"	57.1"	61.4"
Z	1.6"	1.6"	1.8"	2"	2.2"	2.4"

Charts show the values in the following angle

Width angle : Center  
Depth screw angle : 0°



Base angle : 0°

**CAUTION** Risk of door collision  
Setting the pattern for exact door opening may cause a slow response to side approaching traffic.