



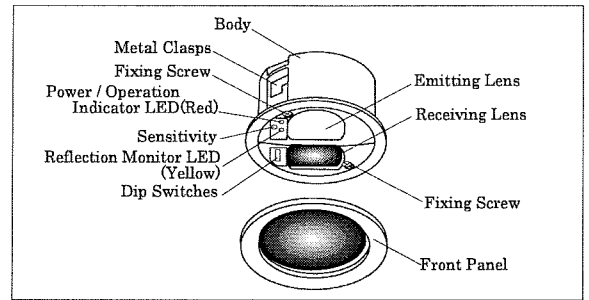
HR82C Motion & Presence Sensor INSTALLATION INSTRUCTION

Active Infrared Motion & Presence Sensor for Automatic Door Control

We would like to extend our thanks to you for purchasing this sensor. We at Hotron Ireland Ltd. are committed to providing you quality products and excellent customer service. Before installing this sensor, please read the following instructions carefully.

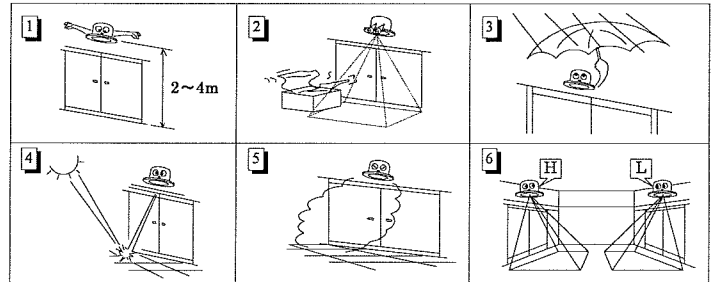
Section 1 Features

- The detection pattern is made up of 4 rows, each of which has 6 detection spots. This provides a very dense detection area of 24 detection spots.
- This sensor is designed to be installed at extremely high installation heights, between 2m~4m.
- The sensor is microprocessor controlled, providing programmable Presence Timer(2, 15, 60sec's, ∞).
- Self Diagnostic means the sensor continuously Monitors itself.
- Pattern depth and width are adjustable using mounting height, dip switches, pattern angle adjustments.
- 4 frequency setting to avoid cross interference between sensors in close proximity.



Section 2 Mounting Information

- 1 Only mount between 2m~4m.
- 2 Do not leave any objects which may move in the detection pattern.
- 3 Do not mount where rain or snow can fall directly on unit.
- 4 Do not mount in an area where reflection of sunlight will shine on unit.
- 5 Do not mount in humid or steamy environments.
- 6 Do not mount five or more devices in close proximity to each other. When using from 2 to 4 devices in close proximity, use different frequency settings as shown. (Maximum 4 sensors)



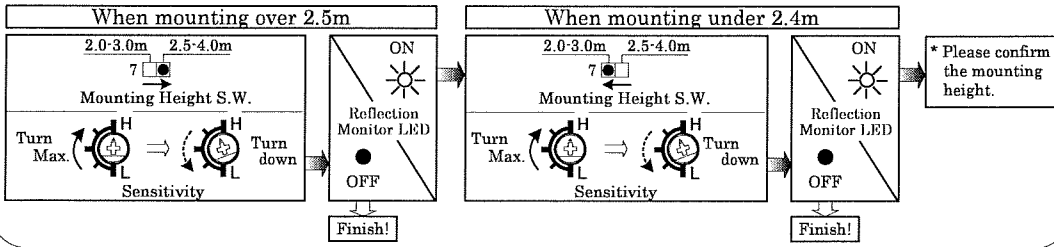
Section 3 Mounting Method

<p>1. Using the Mounting Template provided cut out the required size for the sensor.</p>	<p>2. Connect wiring. Push amp connectors tightly together.</p> <p>Gray Wires = Power Yellow Wires = Relay Output</p>	<p>3. Remove the Front Panel from the Body. Adjust position at Door Side Sticker. Turn clock-wise using a screw driver.</p>
<p>4. Dip SW. settings and adjustments.</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">4. Dip Switch Settings</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">5. Sensitivity Settings</div> <div style="border: 1px solid black; padding: 5px;">7. Adjusting the Detection Pattern</div>	<p>5. Replace the Front Panel on the body. Ensure that it is securely fastened. A loose Front Panel may fall and cause damage or injury.</p>	<p>6. After final set-up, test unit(s) completely to ensure that proper coverage has been achieved (width, depth and location of the pattern must be tested).</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">*** EXTREMELY IMPORTANT ***</div>

Section 4 Dip Switch Settings

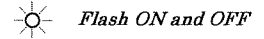
<p>Frequency</p> <p>6 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>5 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>H MH ML L</p> <p>Freq. Setting Ex.</p> <p>Presence Timer</p> <p>2 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>2s 15s 60s ∞</p>	<p>Self Diagnostic</p> <p>OFF <input type="checkbox"/> ON <input type="checkbox"/></p> <p>Mounting Height</p> <p>2.0~3.0m <input type="checkbox"/> 2.5~4.0m <input type="checkbox"/></p> <p>4 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>4R 3R 2R 1R</p>	<p>8 <input type="checkbox"/></p> <p>7 <input type="checkbox"/></p> <p>6 <input type="checkbox"/></p> <p>5 <input type="checkbox"/></p> <p>4 <input type="checkbox"/></p> <p>3 <input type="checkbox"/></p> <p>2 <input type="checkbox"/></p> <p>1 <input type="checkbox"/></p> <p>ON</p>	<p>8. Self Diagnostic : ON / OFF is selectable. Default is ON.</p> <p>7. Mounting Height : To Adjust the mounting height 2.0 to 3.0m or 2.5 to 4.0m. If it is 2.5 to 3.0m, see 5. Sensitivity settings. Default is 2.5 to 4.0m.</p> <p>5/6. Frequency : When more than two sensors are used in close proximity to each other, to prevent interference use alternate frequency settings. (H + MH + ML + L = Maximum 4 sensors)</p> <p>3/4. Pattern Depth (Rows) : To adjust the pattern depth, set switches 3 and 4 as shown.</p> <p>1/2. Presence Timer : Timer is adjustable using switches 1 and 2. The HR82C will detect a stationary object only for the time period set by the Presence Timer. The timer will reset and begin if any movement is detected.</p>
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1. Setting a Mounting Height S.W.
2. Turn Max. Sensitivity.
3. If Reflection Monitor LED is ON then Turn down sensitivity to OFF.



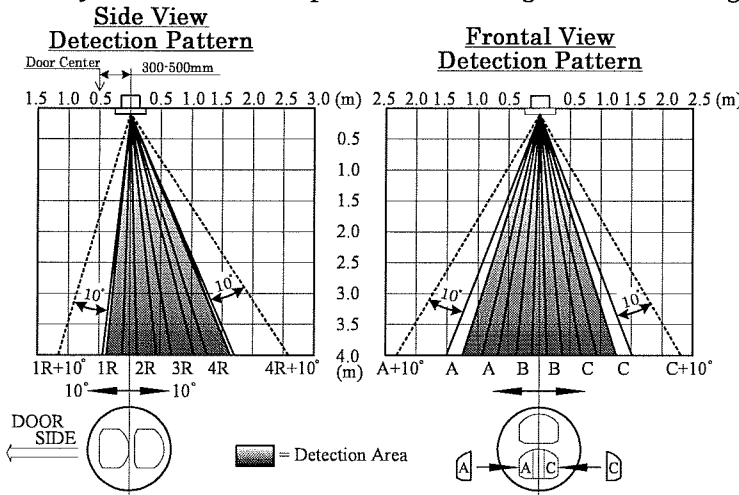
HR82C employs a Self Diagnostic Mode in which the sensor checks itself for abnormalities. If the unit should stop seeing reflected light for some reason, the relay will be active and the Indicator LED will flash on and off indicating failure.

Power / Operation Indicator LED (Red)



Section 7 Adjusting the detection pattern

1. Adjust the detection pattern according to the following diagrams:



Pattern Size & Detection Area

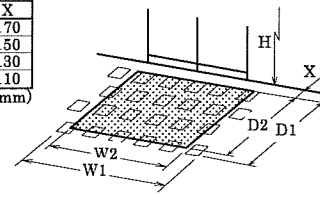
Pattern Size (When Mounting is 500mm from door.)

H	D1	W1	X
2500	1400	1860	170
3000	1600	2230	150
3500	1950	2600	130
4000	2200	2970	110

(mm)

H	D2	W2
2500	1300	1600
3000	1500	1900
3500	1750	2200
4000	2000	2500

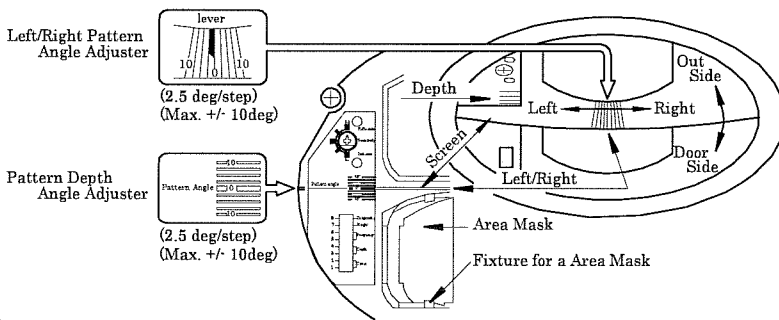
(mm)



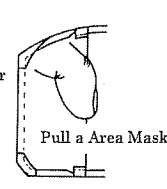
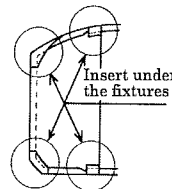
Installation range is 2.0m-4.0m

Note : The diagrams to the left show the distance from the sensor to the floor's surface.

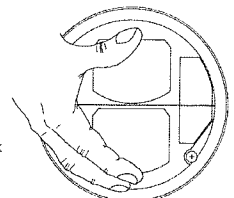
2. Adjust the Pattern Depth and Right/Left Angle.



Attach and Remove the Area Mask



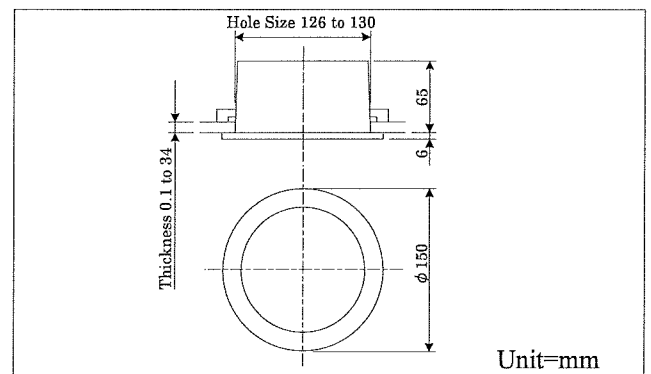
Adjust the Pattern Angle



Section 8 Technical Data

Model	HR82C Motion & Presence Sensor
Detection Method	Active Infrared Detection
Maximum Installed Height	2.0m to 4.0m
Pattern Adjustments	Pattern Width (Area mask) Pattern Depth [Row] (1 to 4 Rows) Pattern Depth [Angle] (+/-10deg) Left / Right pattern [Angle] (+/-10deg) Sensitivity, Mounting Height
Power Supply	HR82C-B* : AC/DC 24V +/-10% HR82C-A* : AC/DC 12V +/-10%
Power Consumption	2.5VA Max. at AC, 100mA Max. at DC
Output Contact	Standard Relay type : 1a · N.O. DC50V 0.1A (Resistor Load) Option Relay type : 1b · N.C. DC50V 0.1A (Resistor Load)
Output Holding Time	Approx. 0.5 sec's
Power/Operation Indicator LED	(Red) Norm.=ON, Detec.=OFF, Fault=Frash
Reflection Monitor LED	(Yellow) Norm.=OFF, High Reflection=ON
Temperature Range	-10°C~+55°C
Weight	Approx. 340g (0.75lbs)
Accessories	Cable 3.0m, Instructions, Mounting Template Area Mask x 2

Section 9 External Dimensions



Section 10 Quality

Hotrons strict quality procedures ensure that this product reaches you in perfect condition. However, if for any reason you are dissatisfied please contact Hotron(Irl)Ltd. Responsibility cannot be accepted for damage caused by misuse or improper installation. Warranty information is available upon request.



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