MP-10137-C '22. 08





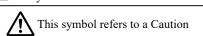
User Manual

We would like to extend our thanks to you for purchasing this product. Before using this product, please read the following instructions carefully. Please retain this manual for reference in case it needs to be referred to during the lifetime of this product.

■ The symbols below indicate an extremely dangerous situation.

WARNING Disregarding this symbol may resist serious injury or death	CAUTION Disregarding this symbol may result in injury or damage to equipment
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■ The symbols below indicate what should be obeyed



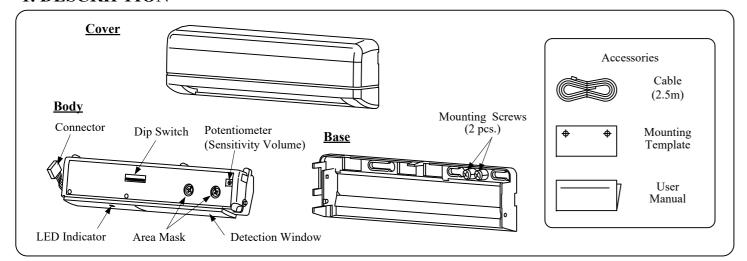


This symbol refers to an instructions which is prohibited

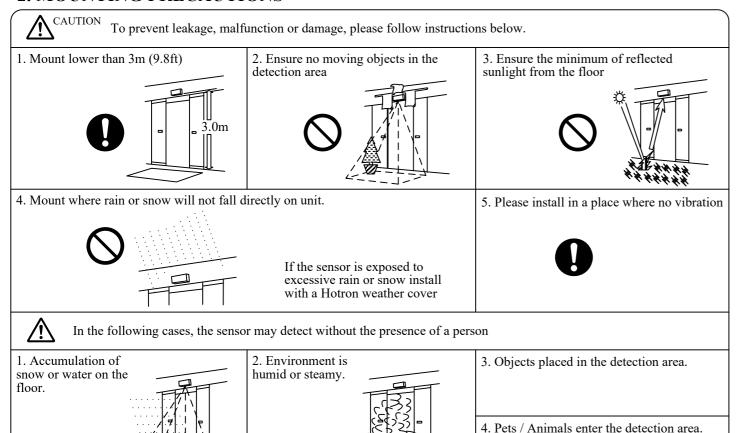


This symbol refer to an Instruction which must be followed

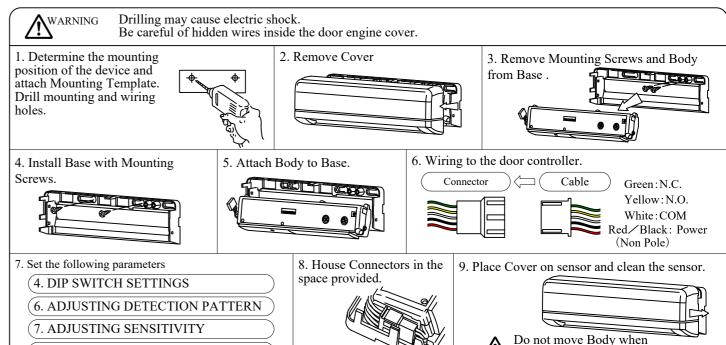
1. DESCRIPTION



2. MOUNTING PRECAUTIONS

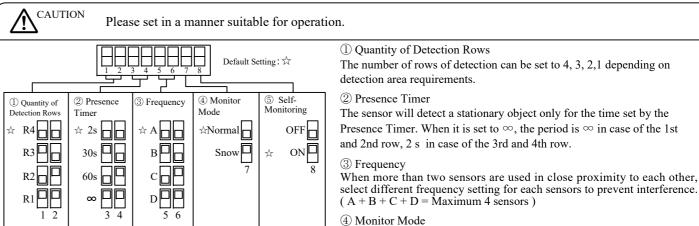


3. MOUNTING & WIRING INFORMATION



4. DIP SWITCH SETTINGS

(8. VERIFICATION OF OPERATION



If you change the setting of the Dip switch when the power is on, the sensor will be reset in approx 6 s.

The reset is the same as the Power-On.

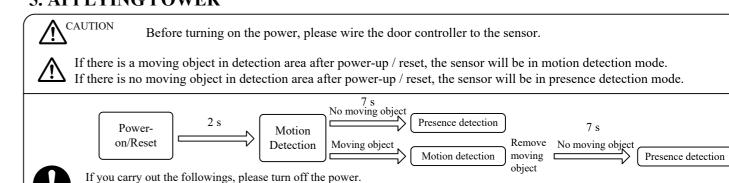
Set to "Snow" in instances where false door activations can result from blowing snow, leaves or rubbish close to the door detection area. It should be noted that sensitivity to detecting pedestrians may also be reduced.

attaching Cover.

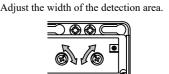
(5) Self-Monitoring

When the sensor has malfunctioned, the Green/Red LED blinks alternately and the relay output is relayed to the sensor.

5. APPLYING POWER



If you carry out the followings when the power is turned on, the sensor will detect for the presence timer setting that you have set mat on the detection



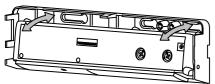


6. ADJUSTING DETECTION PATTERN

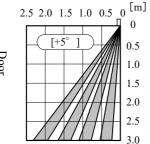
Ensure that the inner row of detection does not detect door movement

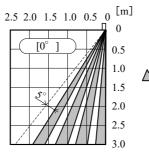
1. Angle adjustment

Adjust the detection pattern either 0° or $+5^{\circ}$ by moving the angle of Body.





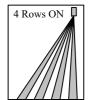


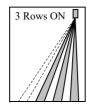


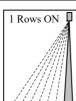
2. Depth adjustment

4. DIP SWITCH SETTINGS

Delete or add rows of detection



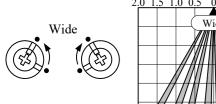


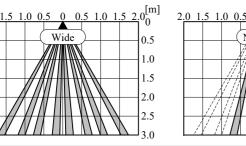


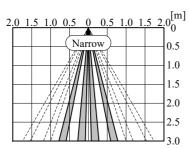
Area mask

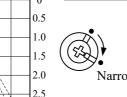
3. Width adjustment

You can adjust the detection width by turning Area Mask with a screwdriver.









The detection range will vary depending on installation environment, object detected and settings etc (clothes and floor material and sensitivity adjustment)

7. ADJUSTING SENSITIVITY

Please adjust the sensitivity that is appropriate to the operation.

1. Please set the sensitivity suitable for the mounting height.



The table below is an estimation.



Height [m]	Estimated sensitivity	
$2.0 \sim 2.5$	$L \sim M$	
$2.5 \sim 3.0$	$M \sim H$	

2. If the sensor does not detect 3. If the sensor detects even even if a person enters the detection area, please increase detection area, please the sensitivity.

decrease the sensitivity.

though no one is in the





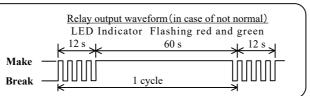
8. VERIFICATION OF OPERATION



After installation and adjusting various settings, please check whether the detection range and sensitivity is suitable for operation. If it is difficult to detect or false activations occur, please re-adjust the detection range and sensitivity settings.

9. SELF-MONITORING

If Self-Monitoring determines that the sensor has malfunctioned, the relay output will cause the door to open, and the Green/Red LED flashes-. In this case, please replace the sensor immediately. OFF / ON of Self-Monitoring can be set with DIP switch.



10. TROUBLESHOOTING

Problem	Possible Cause	Solution	
Door does not	Connector not connected correctly	Tighten or reconnect the connector.	
operate	Incorrect power supply voltage	Apply proper voltage to the sensor. (AC/DC 12-24V)	
Door operates intermittently	Dust, frost or water droplet on the sensor lens	Wipe Detection Window clean and install a weather cover if necessary (Chemicals such as thinner, alcohol use is prohibited to use.)	
	Sensitivity too low	Turn up sensitivity	
	Inappropriate detection area	Adjust the detection pattern.	
Door opens and closes for no apparent reason (Ghosting)		Adjust detection depth away from the door.	
	Mounting portion is distorted	Adjust the monitoring mode	
Door operate by itself	There is a moving object in the detection range.	Adjust the detection pattern. Remove moving object.	
	Detection pattern too far from the door, detecting people passing by.	Adjust the detection pattern.	
	Sensitivity too high	Turn down the sensitivity.	
	Another sensor is too close by.	Change the frequency to each sensor.	
	The condition of detection area is varing. • Dust / Dirty	Change the presence timer settings to shorter	
	• Spread out / Remove a mat • Snow	Adjust the monitoring mode (footprints being left in fresh snow)	

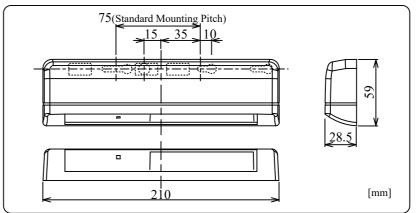
After rechecking, if there is still a problem, please contact us or your dealer.

11. TECHNICAL SPECIFICATIONS

Model Name	3H-IR14		Supply Voltage	AC/DC12~24V±10% 50/60Hz		
Installation Height	3.0m		Power Consumption	AC12V:1.3VAMax / AC24V:1.5VAMax DC12V:65mAMax / DC24V:35mAMax		
Sensitivity adjustment	ensitivity adjustment Available					
Donth a divistment	Angle	0° /+5°	Output	Relay Contact1c DC50V 0.1A (Resistance load)		
Depth adjustment	Row	R4~R1				
Width adjustment	Wide / Narrow		1	Fail safe		
Presence Timer	2s / 30s / 60s / ∞		Output Holding	Approx 0.5s		
Frequency	4 Frequencies		Time Operating	1 2		
Monitor mode	Normal / Snow		Temperature	-20°C ∼ +60°C		
Self-Monitoring	OFF / ON		Weight	Approx 180g		
Detection Method	Active Infrared Reflection		Color	S: Silver, BL: Black		
LED Indicator Standby (Green) R3, R4 Detecting (Red), R2 Detecting (Slow flashing Red), R1 Detecting (Fast flashing Red) Door movement is detected (Orange) Waiting for reset (Fast flashing Orange) Reflection Diagnostics (Flashing Red and Green)						

Please note that specifications are changed without notice.

12. EXTERNAL DIMENSIONS



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< Disclaimer >

The manufacturer cannot be held responsible for

- 1. Misinterpretation of the installation instructions, miss connection, negligence, sensor modification and inappropriate installation.
- 2. Damage caused by inappropriate transportation.
- 3. Accidents or damages caused by fire, pollution, abnormal voltage, earthquake, thunderstorm, wind, floods and other acts of providence.
- 4. Losses of business profits, business interruptions, business information losses and other financial losses caused by using the sensor or malfunction of the
- 5. Amount of compensation beyond selling price in all

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