

Motion and Presence Sensor



User Manual

We would like to extend our thanks to you for purch asing 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.

Disregarding this symbol may result in serious injury or death

CAUTION

Disregarding this symbol may result in injury or damage to equipment

The symbols below indicate what should be obeyed

This symbol refers to a Caution

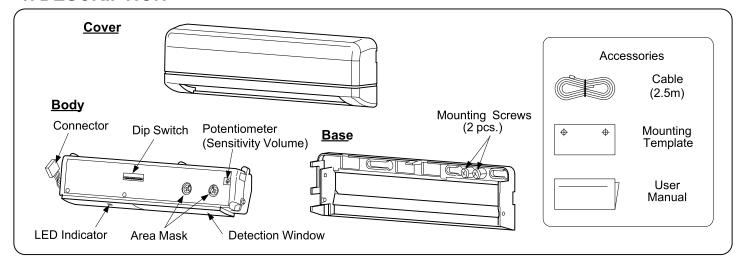


This symbol refers to an instructions which is prohibited

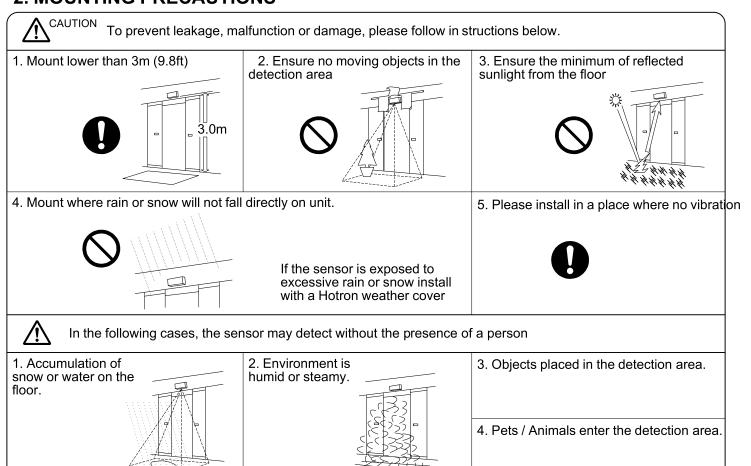


This symbol refer to an Instruction which must

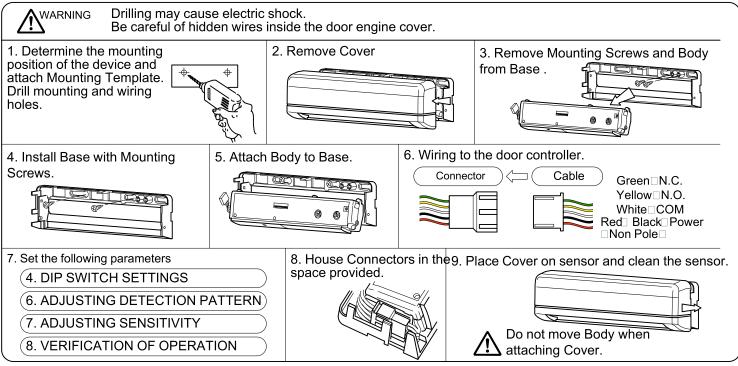
1. DESCRIPTION

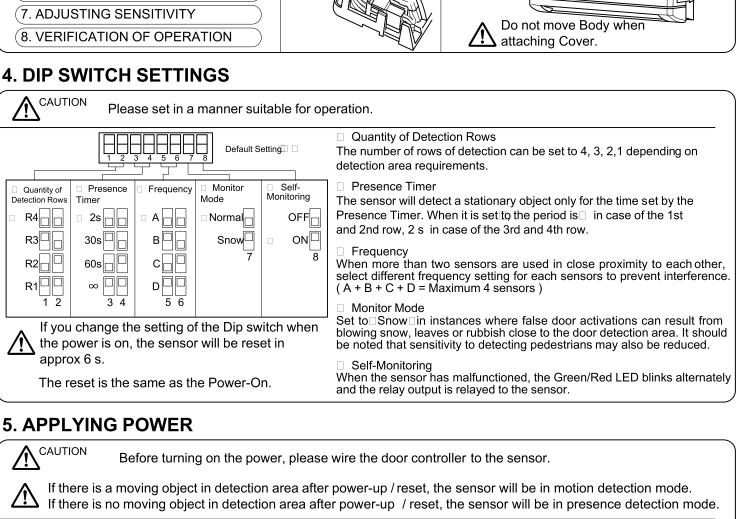


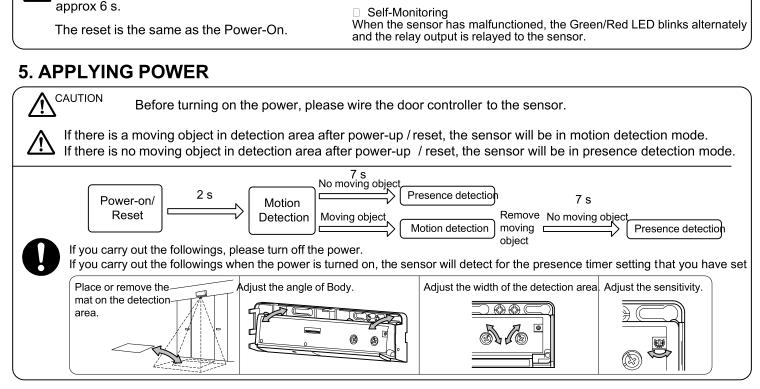
2. MOUNTING PRECAUTIONS



3. MOUNTING & WIRING INFORMATION





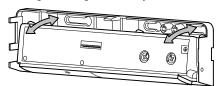


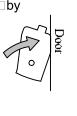
6. ADJUSTING DETECTION PATTERN

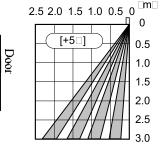
↑ CAUTION Ensure that the inner row of detection does not detect door movement

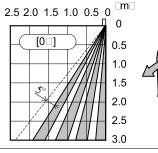
1. Angle adjustment

Adjust the detection pattern either 0 □ or +5 □ by moving the angle of Body.





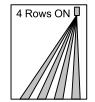


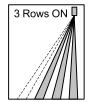


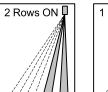
2. Depth adjustment

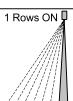
4. DIP SWITCH SETTINGS

Delete or add rows of detection



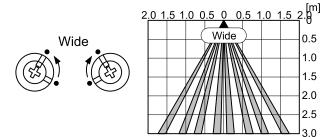


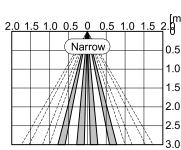


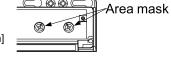


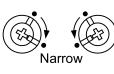
3. Width adjustment

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 litteig

The table below is an estimation.

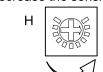


Н		L		
Sensitivity				

Height [m]	Estimated sensitivity	
2.0 🗆 2.5	L□ M	
2.5 🗆 3.0	M□H	

2. If the sensor does not detect 3. If the sensor detects even even if a person enters the though no one is in the detection area, please increase detection area, please the sensitivity. decrease the sensitivity.





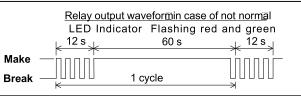
8. VERIFICATION OF OPERATION



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-MONITORINNG

If Self-Monitoring determines that the sensor has malfunctioned, the relay output will cause the door to open, and the Green/Red LED blinks 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 neces 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 rangeAdjust 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 □Spread out / Remove a mat	Change the presence timer settings to shorter	
	□Snow	Adjust the monitoring modefootprints being left in fresh snow	

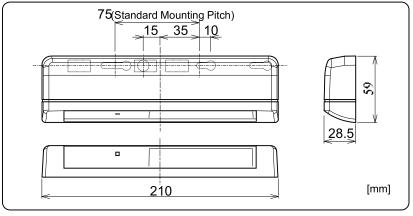
After rechecking, if there is still a problem, please contact us or your dealer.

11. TECHNICAL SPECIFICATIONS

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

Please note that specifications are changed without notice

12. EXTERNAL DIMENSIONS



< Disclaimer >

The manufacturer cannot be held responsible for below.

- 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 cases.