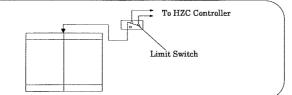
Section 10 Closed Signal

When the door is closed the controller will continue to monitor for 18 sec's. However if a Limit Switch is used then once the Limit Switch comes ON (Door Closed) then the sensor will stop monitoring immediately.



This has applications in areas where security is important.

Section 11 Self Diagnostic Mode

HZC Controller provides Self Diagnostic as the Sensor continuously monitors itself. If there are abnomalities, the door will remain in an Open position. (HZC Relay Output is Open.)

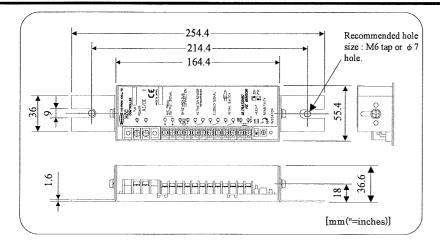
Section 12 Troubleshooting

Problem	Cause	Solution	
Door does not operate.	A wire is broken Wiring is incorrect	Check the all wiring. (Is Activator N/O Relay Output? Is the Door Controller Input N/C? Check some Negative / Positive wiring, see Sec 5.)	
	During the initialization process there was some reflective object(s) in the detection pattern.	Remove the reflective object(s) from the area and re-initialize.	
	Sensitivity is too low.	Adjust the sensitivity setting.	
	The height switch setting is incorrectly set.	Set the height switch to the correct setting & re-initialize.	
Door operates intermittently	Sensitivity is too high/low.	Adjust the sensitivity setting.	
	Poor wiring connections.	Check the wiring.	
	The height switch setting is incorrectly set.	Set the height switch to the correct setting & re-initialize.	
Door operates when no-one is present	The Synchronization Cable wiring is poor.	Check the Negative / Positive wiring.	
	Sensitivity is too high.	Adjust the sensitivity setting.	
	Height switch setting is incorrectly set.	Set the height switch to the correct setting & re-initialize	

Section 13 Technical Data

Model Name	HZC	HZC-CS-BC	HZC-CS-AC
Detection Method	Detection for Door Activation Sensors	Constant Sensing	
Power Supply	$AC/DC24V \pm 10\% 50/60Hz$		AC / DC12V ±10% 50/60Hz
Consumption	1.8VA · 24V AC, 70mA · 24V DC		1.0VA · 12V AC, 70mA · 12V DC
Output Contact	Power ON&OFF= Closed Detection=Open Self Diagnostic=Open		
	Max. Rating (Resistor) 1A - 24V DC / 24W, 0.5A-120V AC / 60VA		
LED Indication	Monitoring Normally: ON Detection: OFF		
Sensor Isntallation Height	2 ~ 3 m (1.3 ~6.5ft)		
Detection Area Height	0.4 ~ 2m (1.3 ~6.5ft)		
Temperature Range	-10°C~ +40°C		
Weight	Approximately 460g (1lb.)		
Connections	Power, Output Signal, Synchronous Cable, Activation Sensor, Closed Signal, Initial SW., Ultrasonic Sensor		

Section 14 External Dimensions



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MP-3307-E '05.04

HZC Ultrasonic Presence Controller Installation Instructions

Presence Detection by Ultrasonic Reflection.

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:

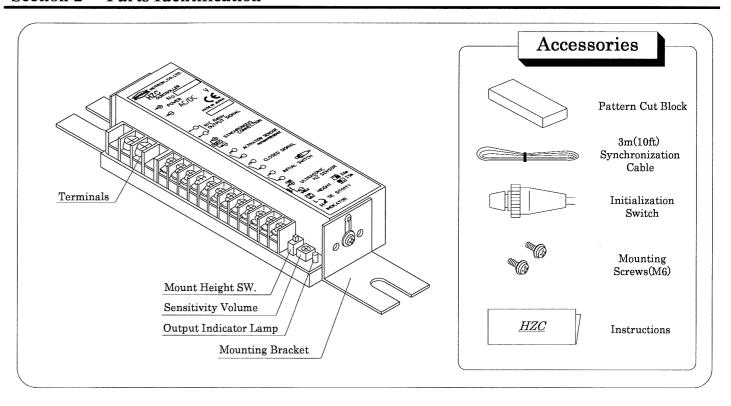
Section 1 Features

This Ultrasonic Presence controller uses an ultrasonic sensor to provide safety detection close to the automatic door. It is designed for use with any automatic door made today.

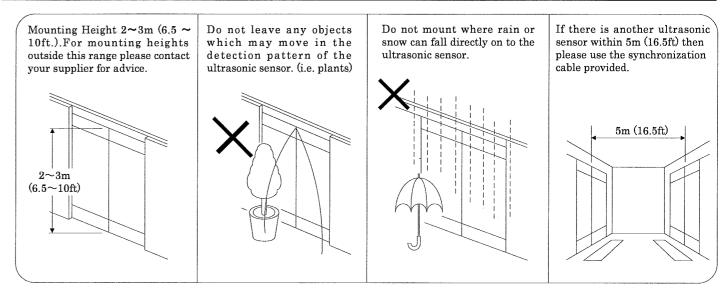
- Provides presence detection in areas where activation sensors do not.
- Uses Ultrasonic Reflection method to detect presence in critical areas.
- HZC Controller provides Self Diagnostic as the Sensor continuously monitors itself.



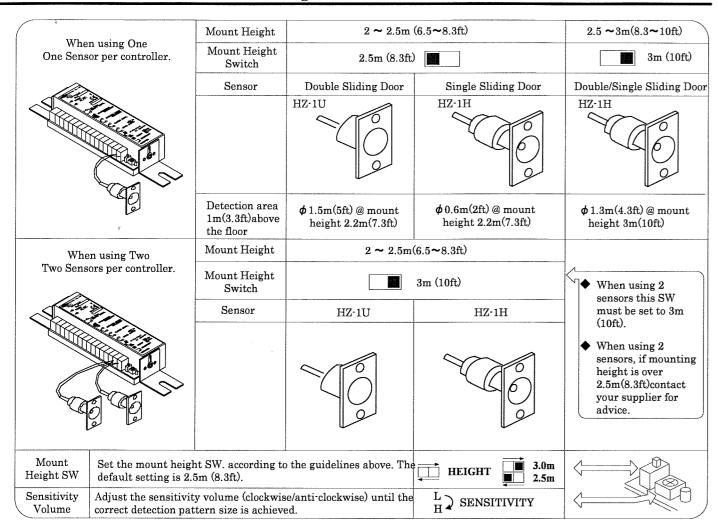
Section 2 Parts Identification



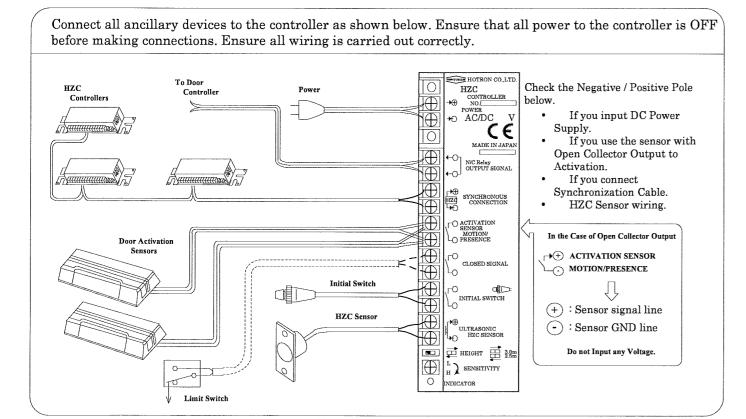
Section 3 Mounting Information



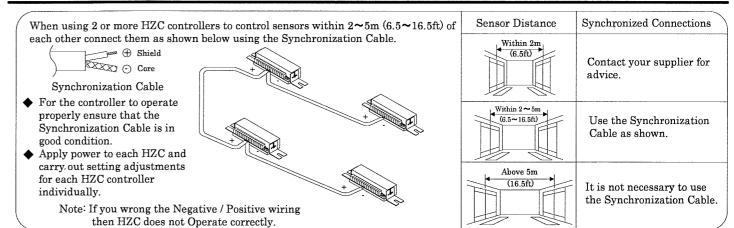
Section 4 Sensor Selection & Settings



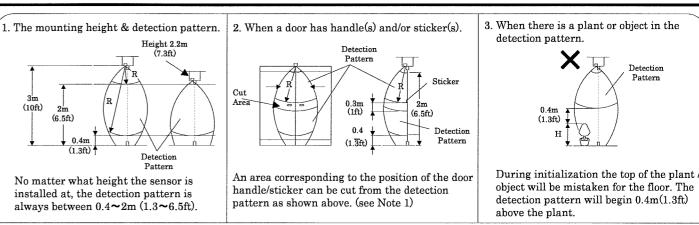
Section 5 Wiring the Controller



Section 6 Synchronized Mode Operation

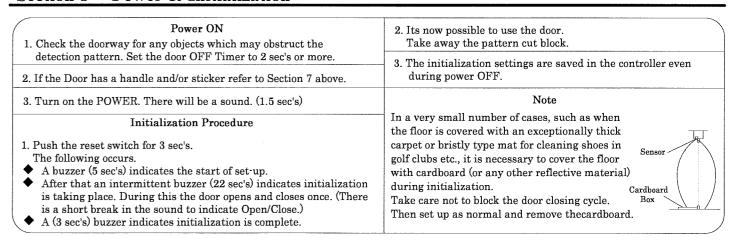


Section 7 Detection Pattern



NOTE 1. To cut an area from the detection pattern use the pattern cut block provided. Fix the pattern cut block to the door above the highest handle/sticker. It is not necessary for the pattern cut block to completely cover the handle/sticker. For double doors also only 1 pattern cut block is required, as the pattern cut from one door will automatically be cut from the other door. Now set up as normal. About Width Area, see Section 4.

Section 8 Power & Initialization



Section 9 Verification

1. When initialization is completed, use your hand at about 1m high to check that the sensor is operating correctly and the detection pattern is at the correct height and diameter. To adjust the detection pattern turn the sensitivity volume.

2. When initialization & sensitivity adjustments are completed, there will be a sound when a person enters the detection area.

2. When initialization & sensitivity adjustments are completed, there will be a sound when a person enters the detection area. For normal operation this can be silenced by quickly pressing and releasing the RED reset switch. The initialization and power On sounds cannot be silenced.