HR100-CT CE
Quick Installation Guide

HOTRON
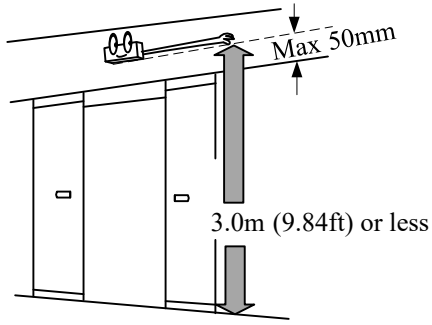INSPIRING CONFIDENCE

1. MOUNT THE SENSOR

Using the mounting template supplied mount the sensor within 50mm of the bottom of the door controller cover

Max 50mm

3.0m (9.84ft) or less

2. SET MAIN DIPSWITCHES AS ILLUSTRATED

Dip Switch X

ON
1 2 3 4

- **Presence Timer: 30s**
- No. Rows of Detection: 5 rows

Dip Switch Y

ON
1 2 3 4

- Frequency: A (Change if another HR100 sensor is close by)
- **Safety Output: N.C.**
- Reflection Diagnostics: OFF

Dip Switch Z

ON
1 2 3 4 5 6

- Direction Detection: OFF
- Activation Output: N.O.
- Monitor (Snow) Mode: OFF
- Door Hold Open: OFF
- Door Learn: OFF
- **Test Input: ON** *(Set to OFF for non-EN16005 doors)*

3. CONNECT TO THE DOOR CONTROLLER

*Note: For EN16005 door controllers set Z6 to "ON" and connect the Gray & Brown wires to the door controller. If the door controller does not have a "TEST INPUT" set Z6 to "OFF" and **do not** connect the Gray & Brown wires*

Sensor's Cable — Cable

Wire		Function
Red		Power (Non Pole)
Black		
White	N.O.	Activation Output Rows 2,3,4,5
Green	COM	
Yellow(+)	Collector	Safety Output Rows 1,2
Blue(-)	Emitter	
Gray(+)	Test-P	Test Input Door Controller
Brown(-)	Test-N	

OFF
ON
Z 6

4. LED INDICATORS

Green	Standby.
Flashing Green	Doorway Learning (When dip switch Z 5 is ON).
Flashing Green (once)	When responding to the TEST signal
Blue	ROW 4,5 Detecting.
Red	ROW 3 Detecting
Slow flashing Red	ROW 2 Detecting
Fast flashing Red	ROW 1 Detecting
Orange	Detection row "ROW1"("ROW2" when doorway Learning is turned ON) is detecting door movement.
Fast flashing Orange	Indicates a change of dip switch settings.
Slow flashing Orange	Door Hold is turned Open (When dip switch Z 4 is Open).
Fast flashing Green/Red	Internal Sensor Error.
Slow flashing Green/Red	Reflected infrared signal from the floor is very low.

5. SET SAFETY DETECTION AREA

Depth adjustment lever: Inner 3 rows

With Base

1.5 1.0 [m] 0.5 0

[0 degree] setting

1.0
Door
2.0
2.2
3.0

1.5 1.0 [m] 0.5 0

[-8 degree] setting

1.0
Door
2.0
2.2
3.0

Note: Adjust the depth adjustment lever arm so that the detection area is directly in front of the moving door leaf. The sensor base can be removed if required.

6. SET DESIRED DOOR OPENING DETECTION AREA

With Base

Depth adjustment lever: Outer 2 rows

3.0 2.0 1.0 [m] 0

[+10 degree] setting

1.0
2.0
2.2
3.0

2.0 1.0 [m] 0

[0 degree] setting

1.0
2.0
2.2
3.0

Width Adjustment: Inner 3 rows
Width Adjustment: Outer 2 rows

2.0 1.0 0 1.0 2.0

1.0
2.0
3.0
[m]

Narrow
Wide

7. DOOR LEARN

Turning Door Learn **ON (Z5),** allows the 1st row of detection to be focused inside the door close area without detecting door movement.
When Door Learn is turned on, the red LED will blink once, followed by a green blinking LED, which will turn solid green once the door learn process has been completed.

[0 degree] setting

Door

Z OFF
5

[-8 degree] setting

Door

Z ON
5

(1st row of detection in front of the moving door)

(1st row of detection inside of the moving door)

Note: Sensor base plate will probably have to be removed to allow the 1st row of detection to be focused inside the moving door leaf

8. OTHER USEFUL DIPSWITCH SETTINGS

Delete rows of detection (Dip Switch X)	5 Rows ON R5 3 4	4 Rows ON R4 3 4	3 Rows ON R3 3 4	2 Rows ON R2 3 4
Snow Mode (Dip Switch Z)	☆ Normal 3		Snow 3	
Adjust sensor frequency settings to prevent cross interference between sensors in close proximity (Dip Switch Y)	☆A 1 2	B 1 2	C 1 2	D 1 2
Turn ON/OFF Uni-directional detection (Dip Switch Z)	☆ OFF 1		ON	