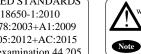
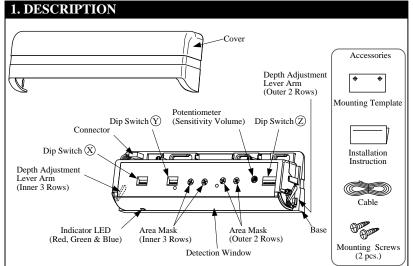


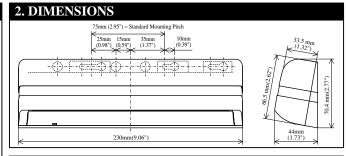
DIN18650-1:2010 EN 12978:2003+A1:2009 EN 16005:2012+AC:2015 EC type examination 44 205 13 738003



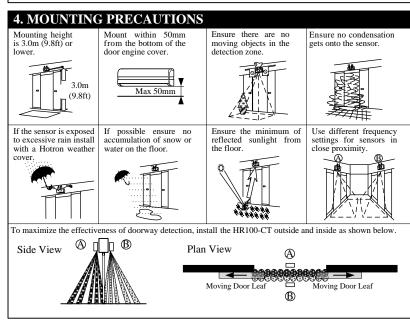


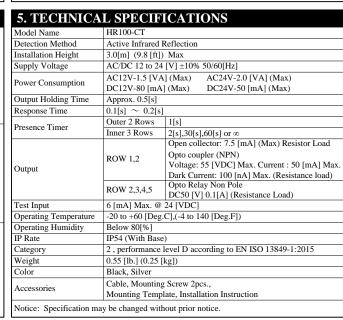


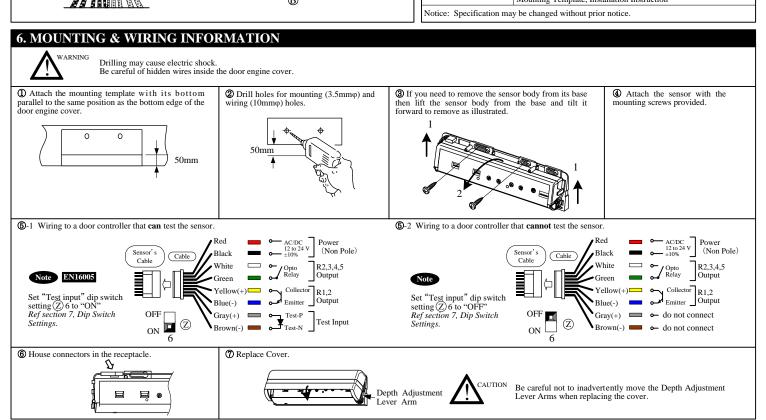


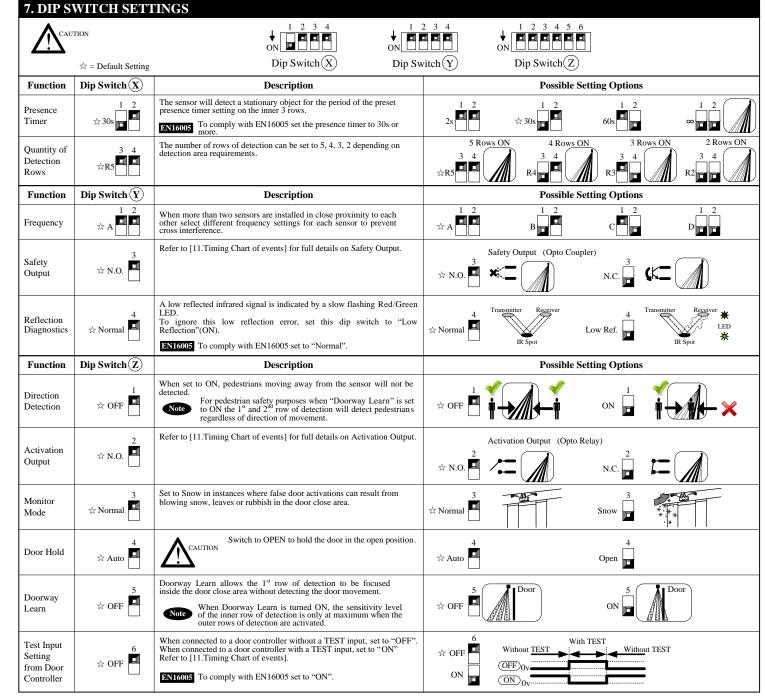


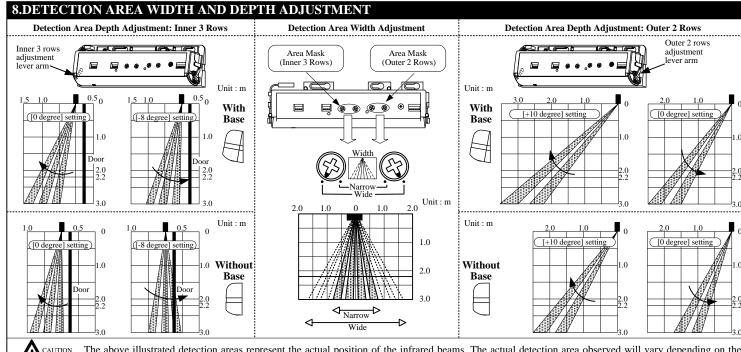
	230mm(9.06") 44mm (1.73")
3. LED INDICAT	ORS
Green	Standby.
Green blinking	Doorway Learning (When dip switch (\mathbb{Z}) 5 is ON).
Blue	ROW 4,5 Detecting.
Red	ROW 1,2,3 Detecting.
Orange	Detection row "ROW1" ("ROW2" when doorway
	Learning is turned ON) is detecting door movement.
Orange blinking (Fast)	Indicates a change of dip switch settings.
Orange blinking (Slow)	Door Hold is turned Open (When dip switch (\mathbb{Z}) 4 is Open)
Green/Red blinking (Fast)	Internal Sensor Error.
C D 111: 1: (C1)	Delatication of the state of th

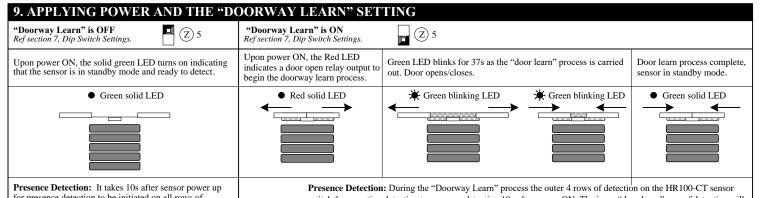












for presence detection to be initiated on all rows of

If before 10s has elapsed someone walks into the detection area it will take about 5s after the person leaves the detection zone for presence detection to be functional.

switch from motion detection to presence detection 10s after power ON. The inner "door learn" row of detection will CAUTION switch from motion to presence detection after the "doorway learn" process is carried out.

"Doorway Learn" Failure & Recovery: If a person enters the detection area during the "doorway learn" process it may not be successfully completed. In this case the sensor will carry out the doorway learn process on door activations by a person in order to build an accurate image of the door open and door close position.

Note: When Doorway Learn is turned ON, the sensitivity level of the inner row of detection is only at maximum when the outer rows of detection are activated.

General Caution:

When carrying out the following work, turn off sensor power.

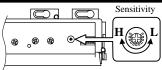
When the floor condition is changed by placing a mat on the floor etc.
 When the detection area pattern or sensor sensitivity is adjusted.

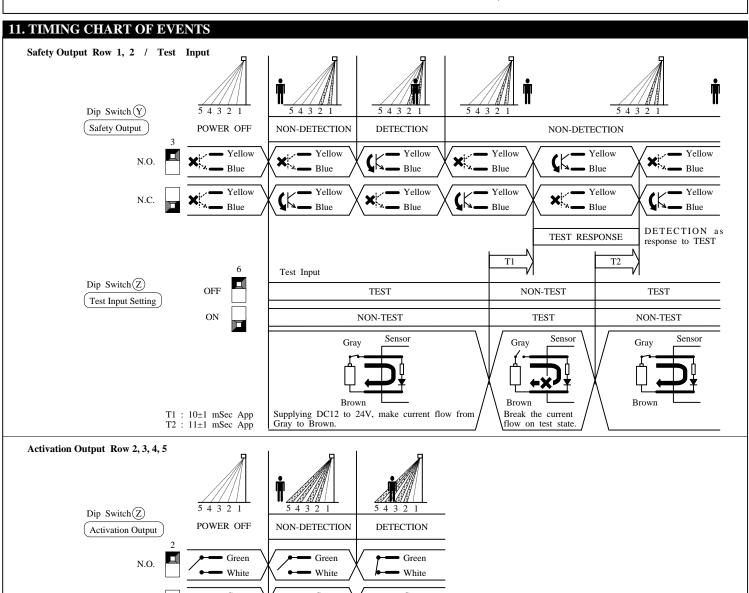
decreased by turning the potentiometer in the anti-clockwise direction.

N.C.

10. VERIFICATION OF OPERATION

After installation is completed "walk test" the sensor detection area. If the detection area is not as expected adjust the detection area as referred to in section 8 or increase the rows of detection using Dip switch (X) 3 & 4 If the detection area is still not as expected then the sensor sensitivity can be increased by turning the potentiometer clockwise. When the sensor detects even though there is nothing in the detection area the sensor sensitivity can be





White

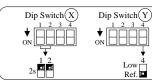
White

12. DOOR MAINTENANCE WORK

When carrying out door maintenance work with power applied to the sensor on door controllers that are wired to "test" the sensor ensure to set the dip switches as below.



Note Keep in mind to return the dip switch settings to their original tate once door maintenance work has been carried out.



Refer to [7.Dip Switch Settings].

13. SELF DIAGNOSTICS ERRORS

Technical problems with the HR100-CT sensor are indicated by a flashing Green/Red LED. The frequency of flashing indicates the type of problem as explained below.

Flash Frequency	LED	Cause	
Fast	Green ★ ★ ★ ★ Red ★ ★ ★	Please replace the sensor.	
Slow	Green * * * *	Confirm that the sensitivity potentiometer is set to maximum and re-power the sensor. If the error persists, set Dip Switch ① 4 to "Low Reflection".	

Problem	LED Status	Possible Cause	Solution
Problem	LED Status		
Door does not open when a person enters the detection area.		Sensor Connector not connected correctly.	Tighten or reconnect the connector.
	OFF	Incorrect power supply voltage.	Apply proper voltage to the sensor. (AC/DC 12-24V)
		Incorrect sensor wiring.	Double check sensor wiring.
Door opens and closes for no apparent reason (Ghosting).		Object moving in the detection area.	Remove the moving object from detection area.
	Door Opens RED	Sensitivity too high for the installation environment.	Reduce the sensor sensitivity.
	Door Closes GREEN	Dust, frost or water droplet on the sensor lens.	Wipe the sensor lens clean and install a weather cover if necessary.
		Detection area overlaps with that of another sensor.	Ensure different frequency setting for each sensor.
		Detection of falling snow, insects, leaves etc.	Turn monitor mode Dip switch ② 3 to "Snow".
When Door opens or closes, LED ORANGE.	ORANGE	Detection row "ROW1" ("ROW2" when "Doorway Learn" is turned ON) is focused too close to the door.	Adjust detection depth of Inner 3 rows away from the door.
Door opens and remains in the open position.		Detection area changed, while ∞ infinity presence timer setting is in use.	Re-power the sensor or change the presence timer settings to 30s or 60 s.
	RED	Incorrect sensor wiring.	Double check sensor wiring.
		Reflected signal saturation.	Remove highly reflective objects from the detection area, or lower the sensor sensitivity.
	GREEN/RED FAST FLASH	Internal sensor error.	Replace the sensor.
	GREEN/RED SLOW FLASH	Reflection of the transmitted infrared signal from the floor is too low.	Increase sensor sensitivity or change the "Reflection Diagnostics" Dip switch 4 from "Normal" to "Low Ref".
	ORANGE blinking (Slow)	Door Hold (Dip switch ② 4 set to Open).	Turn "Door Hold" Dip switch ② 4 to Auto.

Compiler of Technical File (EC Community) David Morgan Hotron Ireland Ltd 26 Dublin Street, Carlow, Ireland Ph: +353-(0)59-9140345 Fax: +353-(0)59-9140543	1	Description of Product: HR100-CT Combined motion and presence detection sensor for the activation and safety of automatic doors. Technology used is Active Infrared Technology.		
	Harmonized Standards Used: EN ISO 13849-1:2015	Other Technical Standards Used: DIN 18650-1:2010 EN 16005:2012+AC:2015		
Above EC Type Directives Certified by: TUV NORD CERT GmbH 30519 Hannover, Germany Identification No: 0044	Declaration made by Teruya Morimoto Director Quality Assurance	Location of Declaration Honda Electron Co., LTD. 1-23-19 Asahi-Cho, Machida-City, Tokyo, Japan	Date 7 July, 2017	
EN12978:2003+A1:2009 Industrial, commercial at EN62061:2005 Functional safety of elect	Part 1: Product requirements chapter 5.7.4 d garage doors and gates - safety devices for porcical/electronic/programmable electronic safety-ety-related parts of control systems.		and test methods	

- < 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 sensor.
- 5. Amount of compensation beyond selling price in all cases.