



## Technical specification

### Door/Window Sensor

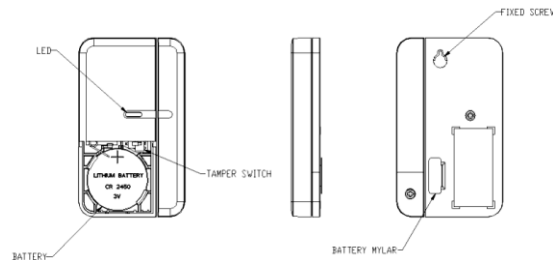
#### Type:

Door/Window Sensor

#### Ordering code:

CKNPDD1

Door/Window detector MINI module is part of Your cockpit system. It is MINI version of Door/Window detector module, which detects the opening, or closing of a window or door.



### Include or Exclude from the Network

In the front casing, there is a tamper switch, which is used to carry out inclusion, exclusion or reset. When power is first applied, its LED flashes on and off alternately and repeatedly at 2-second intervals. It implies that it has not been assigned a node ID and cannot work with wireless enabled devices. Please get familiar with the terms below before starting the operations.

Function	Description
Inclusion	Include a wireless enabled device (e.g. Detector) to the network.
Exclusion	Exclude a wireless enabled device (e.g. Detector) from the network.
Reset	Restore Detector to factory default.

The table below lists an operation summary of basic wireless functions. Please refer to the instructions for your Base Unit to access the setup function, and to include/exclude devices.

Function	Description	LED Indication	
No node ID	The Base Unit does not allocate a node ID to the unit.	2-second on, 2-second off	
Inclusion	1. Have Base Unit entered inclusion mode.		
	2. Pressing tamper switch three times within 1.5 second will enter inclusion mode.		
Exclusion	1. Have Base Unit entered exclusion mode.	LED lights up once whenever tamper switch is pressed once.	
	2. Pressing tamper switch three times within 1.5 second will enter exclusion mode.		
Reset	1. Press tamper switch three times within 1.5 second.		
	2. Within 1 second, press and hold the tamper switch until LED is off.		LED keeps on before reset function has been completed.
	3. IDs are excluded and all of preset value will be reset to factory default.		2-second on, 2-second off
※Including a node ID allocated by Base Unit means inclusion. Excluding a node ID allocated by Base Unit means exclusion. ※Failed or success in including/excluding the node ID can be viewed from the Base Unit.			

### Choosing A Mounting Location

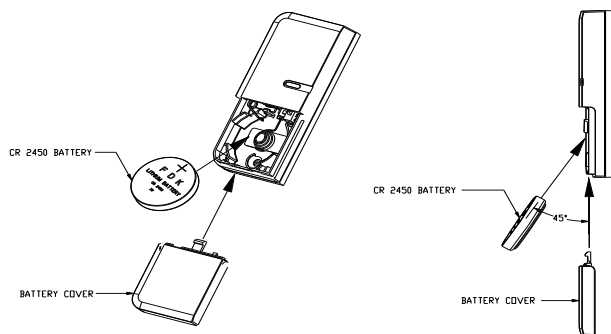
The Door/Window Detector is suitable for mounting in dry interior locations only.

Decide which doors/windows are to be protected by Door/Window Detectors, (usually the front and back doors as a minimum will have Door/Window Detectors fitted). Additional detectors may also be fitted where required to other vulnerable doors or windows, (e.g. garage, patio/conservatory doors etc).

**Note:** Take care when fixing the Detector to a metal frame, or mounting within 1m of metalwork (i.e. radiators, water pipes, etc) as this could affect the radio range of the device. If required, it may be necessary to space the magnet and detector away from the metal surface using a plastic or wooden spacer to achieve the necessary radio range.

## Installation

1. Ensure that the system is properly powered.  
Factory default is built in a CR2450 battery inside the detector and uses a Mylar film to isolate battery from electric circuit of the detector. Remove the battery Mylar film when ready to let the detector work.  
If there is no battery inside the detector or need to replace a new battery please insert the battery in 45° angle as below figure.



2. Using the adhesive tape to fit detector on the door or window.
3. Fit the magnet to the moving part of the door/window opposite the detector using the adhesive tape.
4. Ensure that the parallel gap between the magnet and detector is less than 20mm and that the matching line on the magnet is pointing towards and aligned with the line on the detector. An alarm condition will be occurred if the gap is greater than 35mm.
5. Remove the battery cover with the tamper switch not being pressed on the detector (test mode), detach or close the magnet from the Detector, the LED on the detector will illuminate.
6. After proper installation and test, put the battery cover back to the detector and the detector enters the normal mode.

**Note:** After removing batteries, wait for 5 seconds to refit batteries.

## Operation

1. If first use of module with no node ID, LED will start twinkling for 30 sec. to lead the user for Inclusion. After module finishing Inclusion and enter sleeping mode, the unit will wake up by pressing Tamper and the user can see the LED start lighting up shortly every sec., currently the unit can receive set up from Base Unit. After 30 sec., the unit will enter sleeping mode again, if set up is still needed, the user can press Tamper once more for module to be awake for another 30 sec.
2. Due to limited power output for CR2450, it can't continuously operate for a long time due to power consumption. Therefore, set up time for module should be minimized, and repeatedly press of Tamper should be avoided as well, in order to prevent unusual incident by a quick battery voltage drop down.
3. User can enter test mode by releasing or not pressing the Tamper SW, in the meantime if magnetic sensor is triggered then the LED will be illuminated. User can confirm whether the Tamper SW has been pressed properly by implementing this function. When Tamper SW is to be pressed and enter normal mode, LED will not be illuminated even if the magnetic sensor is triggered, unless low battery is detected.
4. When the tamper switch is pressed, the unit enters normal mode and the red indicator LED on the Detector will not illuminate to conserve battery life when the detector is triggered, (unless the battery is low).

## Troubleshooting

Symptom	Possible Cause	Recommendation
Cannot carry out inclusion	Included a node ID allocated by other Base Unit.	Exclude a node ID then carry out inclusion with new Base Unit.
	Does not fit batteries or run out of battery power.	Check if batteries are fitted or replace a new battery.
LED not illuminating and not working	Does not fit batteries or run out of battery power.	Check if batteries are fitted or replace a new battery.
	Break down	Send it for repair and do not open up the unit.

## Technical Specifications

Power supply	CR2450 3.0V 620mAh Lithium Battery
Frequency Range	868.42 MHz
Operation temperature	-10 ~ 40°C
Operation humidity	85%RH max
Distance	App. 30m indoor
Dimensions (WxHxD)	31mm x 70mm x 11.5mm
Weight	23,6 g (without batteries)
Protection Class	IP 20

***\*Specifications are subject to change without notice***



### **WARNING:**

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least free of charge.



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