



*Pocket Quick
Reference For the
CDL-WPIR "PIR Kit"
RAV & VRF Indoor Interface*



The CDL-WPIR "PIR-kit" comprises of.

- 1- 230 Volt 360° Flush Mount Ceiling PIR sensor and Power Box.
- 2- 1 Amp inline fuse.
- 3- CDL-BMS01 Interface.

1) Sensor and Power Box



The sensor is a ceiling flush mount presence detector for indoor applications in commercial and domestic locations, and is supplied pre-wired, (approx. 1m long), which connects to the supplied Power Box, the power box requires securing above the finished ceiling.

A 65mm hole is required in the desired location.

A 230 volt live (L) and neutral (N) power supply is required, (Obtained from the indoor unit, terminals 1 & 2.)

A 2 core, non-polarised data cable (D1 & D2)

2) In-Line fuse.



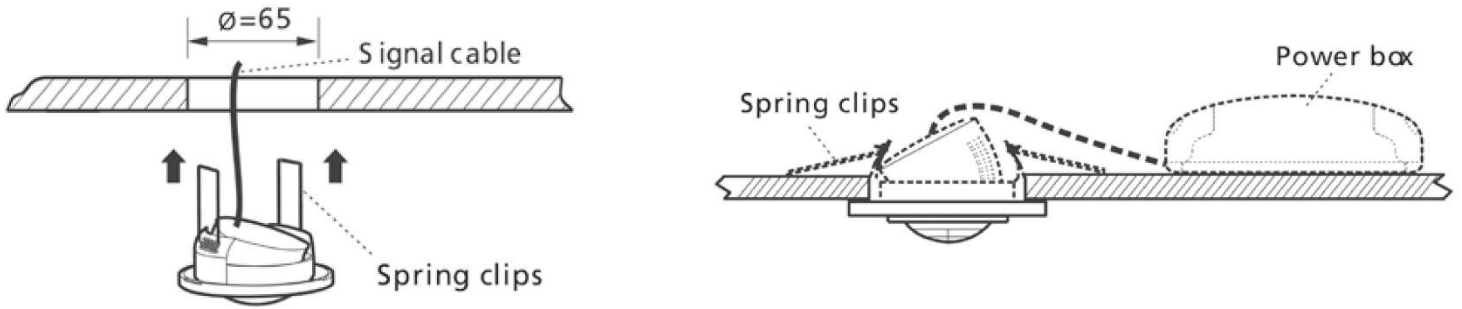
The in-line fuse is fitted with a 1amp fuse.

3) CDL-BMS01 Interface.



This interface provides a **VOLT FREE** switching circuit to the indoor unit and plugs into the **CN61** socket on the indoor PCB.

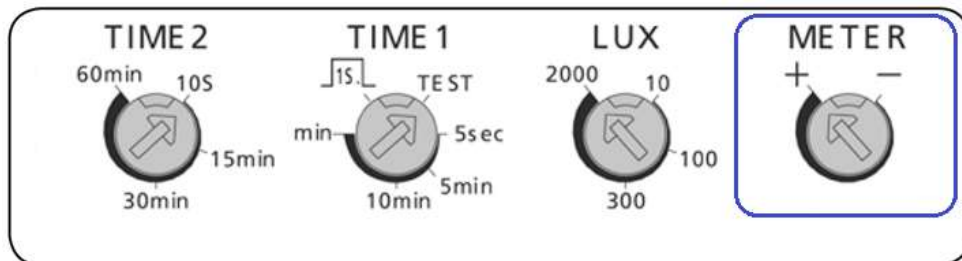
Mounting the Sensor



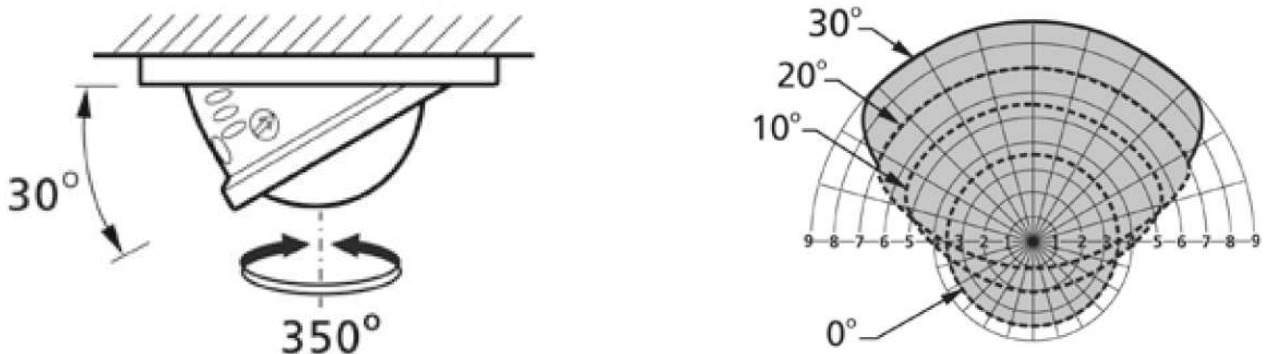
Maximum detection coverage, the sensor is a 360° cone shape from a ceiling height of 2.5m which gives a 7m diameter coverage at floor level, the sensor can be configured for ceiling to floor heights over 2.5m, it is not recommended that the floor to ceiling height exceeds 4.5m.

Using the "Meter" adjuster, located on the sensor head, (using a small flat blade screwdriver), the detected coverage can be adjusted to suit the ceiling height. If the "meter" control is set to "-" the coverage diameter is greatly reduced.

Ceiling Height	Detection Coverage Diameter
2.5m	7m
3m	10m
3.5m	12m
4m	12m
4.5m	12m



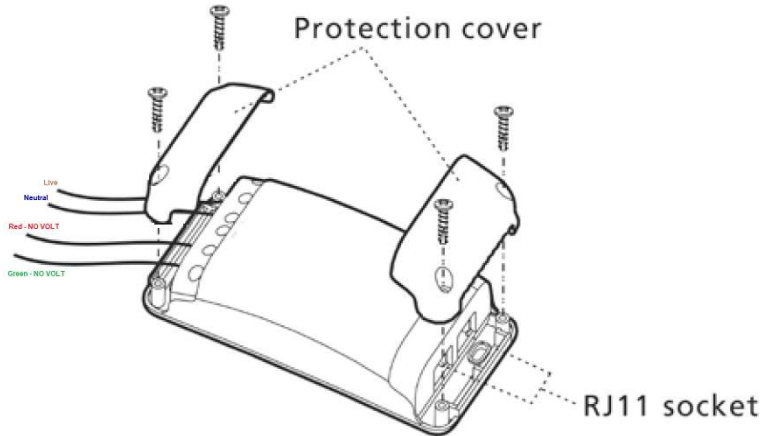
The sensor can be "tilted and rotated to suite the individual application.



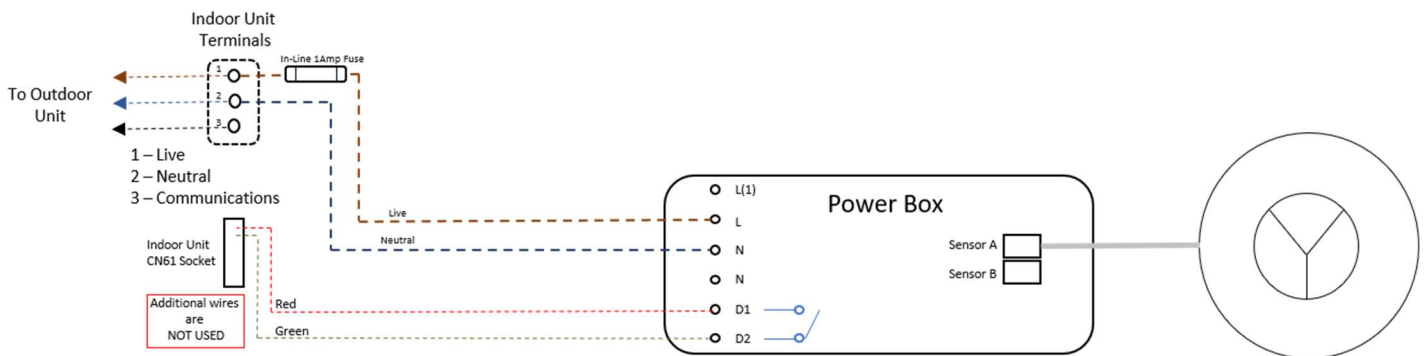
Connections.

The sensor is fitted with a 1metre cable and connects to the PIR Power Bank via the fitted RJ11 plug, connected to Sensor 1 socket, Sensor 2 socket is not used.

External connections are directly opposite of the sensor plugs and identified as L1 & L, (Main's power Live is connected to L), there are 2 Neutral connections N, N, either can be used, terminals D1 & D2 are the **No Voltage** switching circuit used to control the HVAC equipment, and connect to the Red and Green wires from the supplied CDL-BMS01 lead, (The additional wires, (White, Yellow, Blue & Black) of the CDL-BMS01 interface are **NOT USED** in this application.



Wiring Diagram



IMPORTANT

Switch off the electricity supply via the local isolator or fuse box before proceeding.
It is recommended that this "Kit" is installed by a qualified electrician, in accordance with wiring and current building regulations.

In-Line Fuse

230volt AC 1 Amp fuse, connected to terminal 1 at the indoor unit and terminal L on the PIR Power Box, additional cable, min 0.75mm 2 core, to be field supplied, the 1-amp fuse, providing local protection to the PIR device only.

CDL-BMS01

This interface is for connection to a Toshiba indoor unit from the Digital Inverter, Super Digital Inverter or VRF range of units.

Remote ON / OFF.

The interface connects to the CN61 socket, (Yellow) on the indoor printed circuit board, locations vary dependant on the indoor model, the installer is then required to extend the red and green wires from the CDL-BMS01 and terminate at the terminals, D1 and D2, on the PIR Power Box, additional cable, 0.5/0.75mm, 2 core, is field supplied.

CDL-BMS01

1) Remote ON / OFF, Volt Free Normally closed contact.

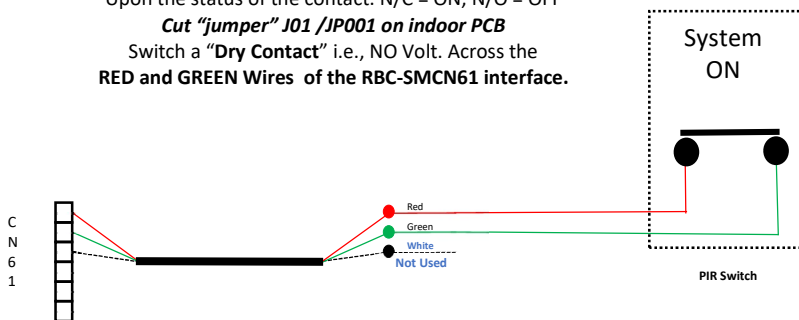
Closed contact (Volt Free) system on.
Open contact (Volt Free) system off.

ON/OFF Control

This will switch the individual indoor units on or off depending Upon the status of the contact. N/C = ON, N/O = OFF

Cut "jumper" J01 /JP001 on indoor PCB

Switch a "Dry Contact" i.e., NO Volt. Across the **RED and GREEN Wires** of the RBC-SMCN61 interface.



In order for the external on/off switch to correctly work the link J01/J001 located on the indoor printed circuit board **MUST** be cut.

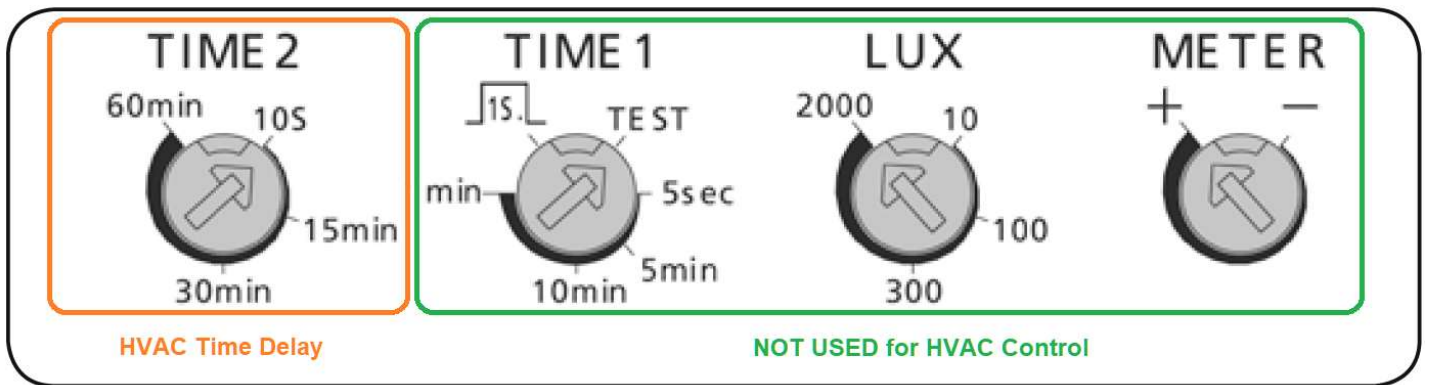
Setting up the PIR.

The operating time of the HVAC equipment will require setting, via Timer 2 on the PIR Unit, this can be adjusted to a maximum of 60 minutes or a minimum of 10 seconds, adjustment is via a small flat blade screwdriver using the adjuster to the left, (A run time of 15 minutes is recommended).

The programmed time via Timer 2, is the period of operation of the HVAC equipment when there is no activity within the controlled area.

When used to control HVAC equipment via terminals D1 & D2 at the PIR Power Box, Time 1, LUX have no functionality.

Time 1, LUX are used to set the a) time delay (Time 1) and b) the lighting level, (Lux) when controlling lighting units.



Light sensitivity (Lux) and timer (Time 1) for the lighting control can also be adjusted, (Not recommended.), adjustment is carried out with a small flat bladed screwdriver using the adjusters on the right.

Full details are available in the separate instructions within the PIR packaging.

Contact details:

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Toshiba Air Conditioning

24/7 technical support

0870 843 0333 (Option 7)

Text back service

07624 803 017

(Type fault code in lower case no spaces)



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