WC360

360 deg wall or ceiling PIR with Audio detection

INSTALLATION AND OPERATING INSTRUCTIONS

FORWARD

The WC360 is a Mains Voltage wall or ceiling passive detector with the addition of Audio detection. This model can be used for automatically operating lighting in toilet areas and also extractor fans. The advantage of audio detection is that the lights or extractor will remain On even if the PIR detector cannot see the occupant.
The WC360 can only be initiated by PIR detection but once activated, sound detection will keep the lights On. The lights **ON** timer is adjustable up to thirty minutes.
A light sensor which is built in to the WC360 inhibits the lights from turning ON if the room is too bright.

FIXING

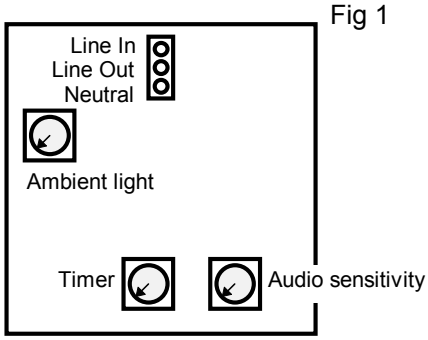
FOR SURFACE MOUNTING ONLY

The WC360 can be fitted to a wall or ceiling where it will view 360 degrees to cover the appropriate area. Fix a 25mm surface mount plastic square Back Box at the position where you want the PIR detector and run in a three core cable. (Line In, Line Out & Neutral). The range is variable up to 8 metres. As the WC360 detector also detects sound, it is important to fit the detector on a solid surface with limited vibration. Any vibration will be picked up by the detector and cause it to keep the lighting ON. An audio sensitivity control is provided to reduce this detection or disable it altogether.

SPECIFICATION

• Input voltage	220-240 volts~ 50Hz
• Relay switch load	500 Watts resistive 300 Watts fluorescent
• Relay timer	Adjustable up to 30 minutes
• Audio sensitivity	Adjustable down to OFF
• Ambient light	Adjustable. Disabled when fully anti-clockwise.

Fig 1



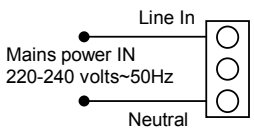


Fig 2

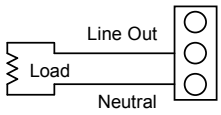


Fig 3

DETECTOR WIRING

There are only three terminals on the WC360 marked
LINE IN, **LINE OUT** and **NEUTRAL**.
Connect the mains supply across Neutral and Line In. Fig 2.
Connect the load across Neutral and Line Out. Fig 3.
Do not exceed the load wattage. For fluorescent lighting the maximum load is 240 watts.
Wiring must be carried out in accordance with IEE regulations and you should consult a qualified Electrician.

COMMISSIONING.

Turn the ambient **LIGHT**, **TIMER** and **AUDIO** sensitivity controls fully anti-clockwise. Apply the mains power and allow about two minutes for the detectors to settle before beginning the tests. Once the lights have turned off, walk into the detection field to turn on the lights. Try entering from different angles. Now test the audio detection if required by rotating the Audio Sensitivity adjuster clock-wise. Initiate the lights by walking **IN** and then **OUT** of the field of view. Then talk or make some other sound and the lights should remain **ON** even though you are no longer in the PIR field of view. Finally turn the ambient light adjuster slightly clockwise if required. This will inhibit the lights from being activated if the room is already brightly lit. Fully anti-clockwise allows the PIR to work in any light level. Fully clockwise would mean that the room would have to be quite dark to enable the lights to activate.

TROUBLE SHOOTING

PROBLEM Lights remain ON

SOLUTION Turn the audio sensitivity adjuster fully anti-clockwise. It may be that there is too much ambient noise or the detector is picking up vibration through the wall or ceiling.
Another reason for the lights remaining ON is due to the long thirty minute timer which is restarted on each detection. In busy areas, reduce the lights On time to say ten minutes or even less.

PROBLEM Lights will not work.
SOLUTION The room may be too bright. Turn the light sensor control anti-clockwise.
Make sure there is power on the **LINE IN** terminal.

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