Wall Mounted Occupancy Detector

IDW 24

Jan.10

IDW 24

Features

- **Second-to-none occupancy detection**
- **Changeover relay signal output**
- **Adjustable OFF delays**
- **High density detection zones**
- **Corner or flat wall mounted**
- **Compatible with a broad range of equipment**
- **Low voltage loads can be switched directly without the need for interposing relays**

Technical data

Infrared sensor	Passice Infra-Red Detector
Power supply	12-24Vac/dc
Switching Capacity	6(2A)@24V
Electrical Connections	+24V, 0V, Relay - Common, NO, NC
OFF Delay	Adjustable 10sec to 30min
Detection range	18m
Type	Class 2I
Field of view	90°
Mounting hight:	2 to 3m above the floor
Detectable speed	0.1 - 3.0m/sec
Temperature	-10°C - +40°C
Humidity	90% RH max
Colour	White
Housing	Flame retardant ABS, polypropylene
Approval	The product meet the demand of CE

Design Features

The IDW 24 employs a high sensitivity pyroelectric infrared sensor and a specially designed fresnel lens to provide second-to-none occupancy detection.

Even every slight movement will be detected by the IDW occupancy detector.

Detection of occupancy causes the internal SPDT relay activate.

The ON and OFF delays are designed to provide smarter energy management of HVAC system

ON delay is the time given to the sensor to certify the occupancy, before it activates the controller for HVAC/ Lighting

The IDW feature is a adjustable OFF delay, which is the time that relay is activating.

From a DDC-controller you can set ON delay which can verify the nature of occupancy before activating the HVAC.

This feature elimininates the unnecessary HVAC operation caused by short-time occupancy, accidental entrance or passing movements.

General

The IDW 24 is an occupancy detector designed for automatic ventilation control of HVAC system.

This detector provides a changeover NO/NC relay signal output for the controller to activate/deactivate the operation of ventilation or lighting automatically..

The volt free contacts in the IDW ensure compatibility with a vast array of equipment.

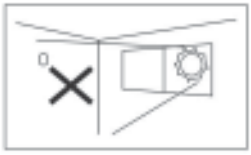
Please note that the relay in this unit is rated for low voltage use only.

This detector can be wall or corner mounted with 90°, 18m detection range.

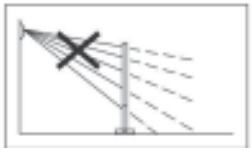
Ordering Code

IDW 24	Wall mount PIR occupancy detector

Installation Hints



Do not install where the detector is exposed to direct sunlight or directly above strong sources of heat.



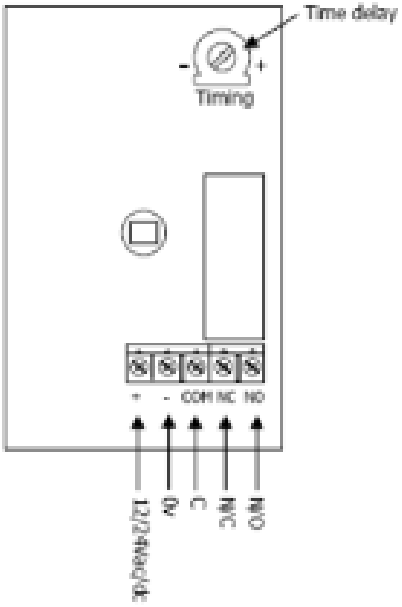
Make sure the detection area does not have any obstruction (plants, large pieces of furniture, curtains etc.) which may block the detection.

Installation

The IDW should be sited so that the occupants of the room fall inside the detection pattern shown on page 3 and in accordance with following guidelines.

- Avoid direct sunlight entering the sensor
- Do not site within 1m of forced air heating or ventilation
- Do not site within 1m of any lighting
- Do not fix to a vibrating surface.

Connections



The electrical connections must be made before attaching it to the wall bracket or directly to the wall.

Setting the time delay

Timing is adjustable between 10 sec and 30min using the timing adjuster on the PCB

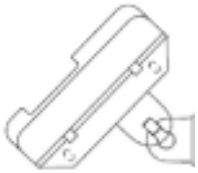
Mounting

Bracket Mounting

The recommended fixing of the IDW to a flat wall or corner is using the bracket included with the unit.

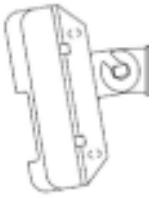
The bracket is secured using screws (not supplied) and then the housing is simply attached as shown in the diagrambelow.

The wall bracket must be fitted with the opening pointing with the opening pointing upwards.



Align the bracket opening with the IDW housing

Adjust, as required



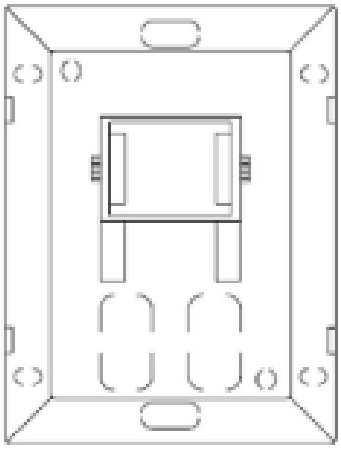
Direct Mounting

Direct mounting either a corner or flat is achieved using knock-out´s in the back cover.

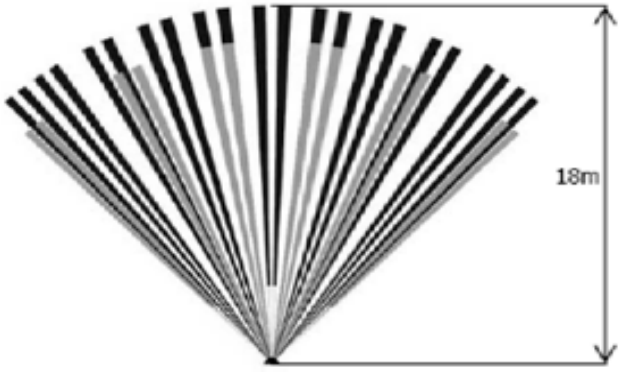
the front cover is removed by unclipping it which will reveal a number of knockouts on the rear part of the enclosure.

These are simply pinched or drilled out and the rear section is then fixed directly to the surface.

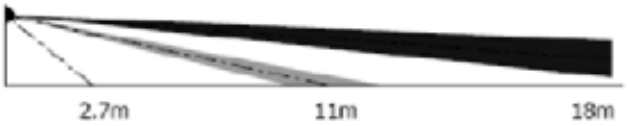
The front cover van then be clipped back into place.



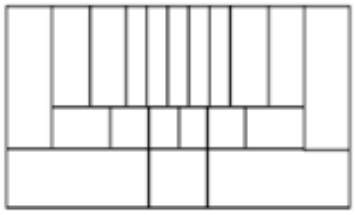
Detection Range



Wall mounting 2.25m
above the floor

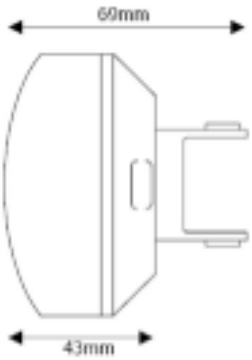


Lens Patten

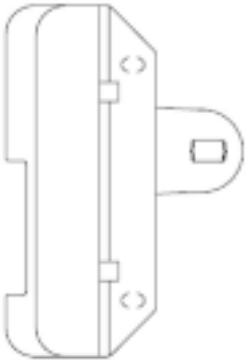


Dimension (continued)

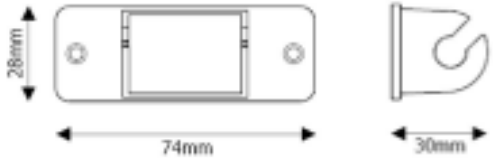
Top

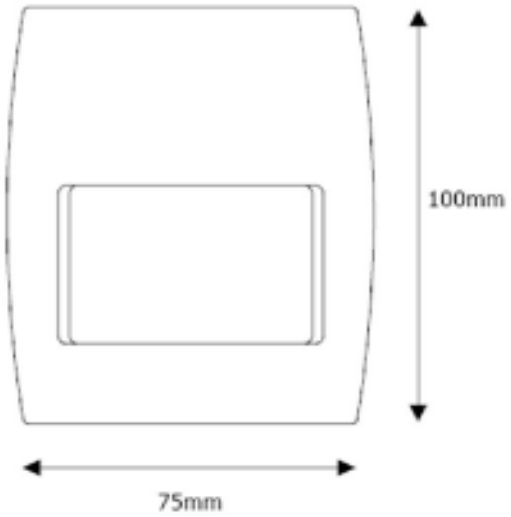


Side



Wall bracket



Dimensions

Front