IDC 24

Features

- **Second-to-none occupancy detection**
- **Changeover relay signal output**

- **Adjustable OFF delays**
- **High density detection zones**

- **Flush or surface mount options**
- **Compatible with a broad range of equipment**

- **Small loads can be switched directly without the need for interposing relays**

Technical data

Infrared sensor	Passive Infra-Red Detector
Power supply	12-24Vac/dc
Switching Capacity	6(2A)@240Vac
Electrical Connections	+24V, 0V, Relay - Common, NO, NC
OFF Delay	Adjustable 10sec to 30min
Detection range	7 metres max.
Type	Class 2I
Field of view	360°
Mounting hight:	max 2,8mm 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 IDC 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 IDC 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 IDC 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 mains rated volt free contacts in the IDC ensure compability with a vaste array of equiment

Ordering Code

IDC 24F	Ceiling occupancy detector, flush mount
IDC 24S	Ceiling occupancy detector, surface mount

Automatikprodukter

Installation

The IDC 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.

Mounting

Surface Mounting

Surface mounting is effected using the optional surface back box.

Side knockouts are provided for cable entry.

Fixing lugs allow mounting to BESA boxes or metal boxes.

Optional security screws can be fitted to prevent removal.

50 or 60mm fixing centres

Mounting(continued)

Flush Mounting

Flush mounting is achieved using the plastic bracket and clips provided.

Ensure that the ceiling tile is of suitable material to support the weight of the unit and that there is sufficient clearence above the ceiling.
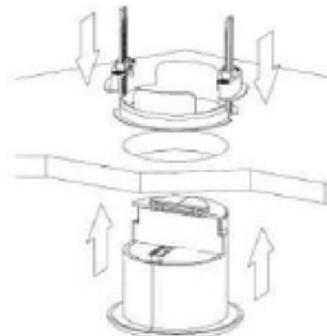
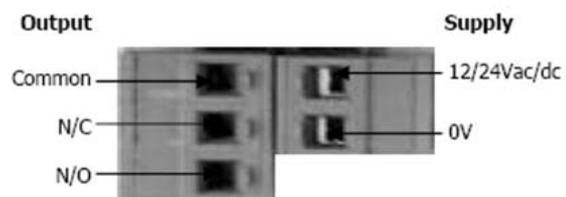No access is requiredto the ceiling void, other than wiring.

a/
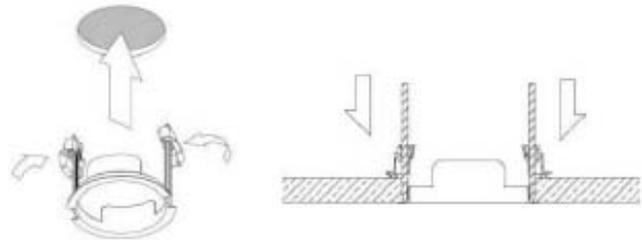
65mm dia. hole should be cutif mounted this way.

b/

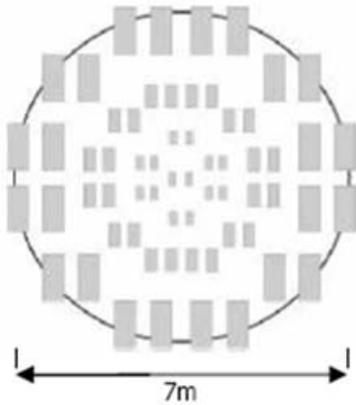59mm dia hole should be cut if mounted this way
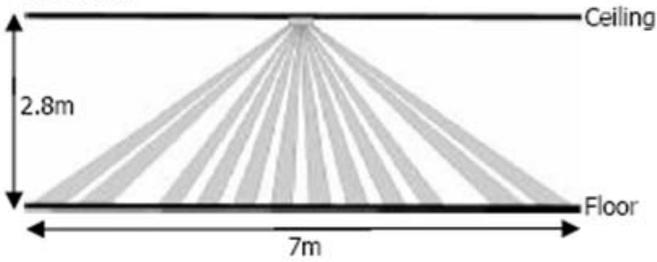
Connections

Setting the time delay

Timing is adjustable between 10 sec and 30min using the screwdriver slot labelled TIME
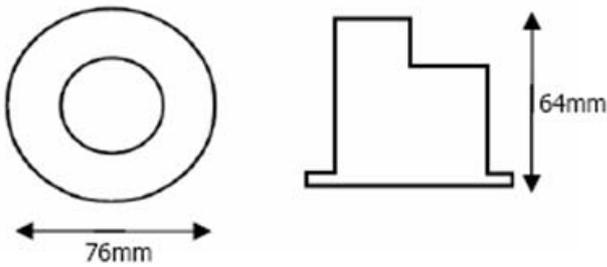
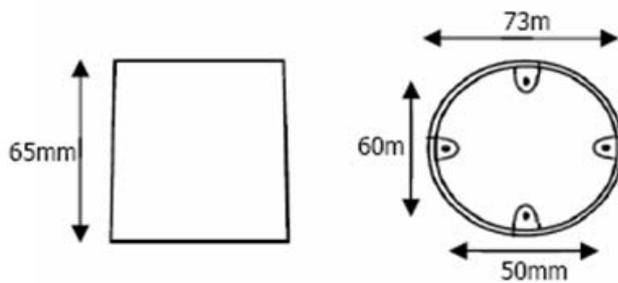## Detector Patten

Top view:

7m

Side view:

Ceiling

2.8m

Floor

7m

Dimensions

Main Housing:

64mm

76mm

Surface Back Box:

73m

65mm

60m

50mm

Flush Mounting Bracket:

64mm

40mm