DETECT Occupancy

Electronic presence detector



QUICK FACTS

- O IR detector of double enclosure type
- O Available for ceiling or wall installation
- Adjustable for optimal room coverage
- O Changeover normally open and normally closed
- O Adjustable on/off switching delay
- White enclosure



Technical description

Design

The DETECT O is a presence detector of IR type, i.e. a heatsensing detector that quickly reacts to human presence in the room. The IR lens has a detection area depending on type, see figures. The detector has connections for normally open (NO) and normally closed contacts (NC) and an adjustable switch on delay (0-10 min.) and switch off delay (0-30 min.). In Swegon's demand controlled ventilation systems, the controller manages the switch off delay, except for when used in combination with ADAPT Damper where the on/off switching delay is set in the DETECT O.

On delivery, the switch on delay is set to 10 seconds. The DETECT O includes a built-in temperature control function that readjusts the presence detector to detect presence if the temperature becomes too high. This function must not be activated in Swegon's demand controlled ventilation system.

Materials and surface treatment

All parts are made of PVC-free plastic, ABS plastic is mainly used.

Maintenance

Dirty products must be cleaned by wiping.

Declarations

Declaration of construction materials is available for download from www.swegon.com.

Planning

The presence detector is used for minimising energy consumption in unused areas. Max recommended room area is 100 m^2 .

Several occupancy sensors connected in parallel to the room controller are recommended to provide the best operation in large rooms where coverage lies outside the detection area according to figures 1 and 2.

Recommended placement for the wall mounted version (V110) is in a corner. For the ceiling mounted version (T360), the best result is achieved when placed in the centre of a ceiling.

When used with either Swegon system WISE products or REACT, the switching delay is controlled by DETECT Occumpancy and is preset to 20 minutes.

Detection area

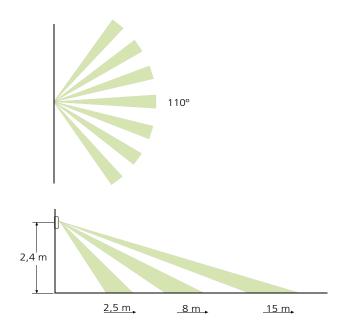


Figure 1. Detection area, wall mounted version, V110.

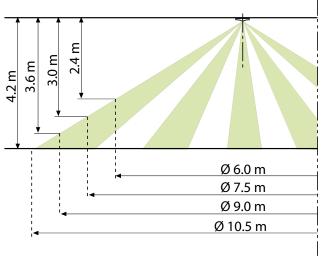


Figure 2. Detection area, ceiling mounted version, T360.



24V AC/DC 0,2A

Installation

The DETECT Occupancy can be installed in different places and heights in the room. The presence detector should be placed so that it is not blocked by book shelves or partition walls and must not be exposed to direct sunlight.

Corner placement of the DETECT Occupancy V110 at max. 2,4 m above the floor is recommended to provide the best possible detection. The use of several detectors is recommended in larger rooms.

The DETECT Occupancy V110 has a special wall bracket that enables it to be secured to a wall or ceiling. See Figure 4. The presence detector can also be secured to a wall without the wall bracket.

- 1. Back off the locking screw and lift off the front of the detector housing. Remove the circuit card from the back.
- 2. Choose wall, corner or ceiling mounting. Then tap out the appropriate knockouts for the screw holes and install the back.
- 3. Refit the circuit card and connect the cables.
- 4. Be careful to seal the gap at all the cable lead throughs to prevent insects from entering the detector housing.
- 5. Refit the front.
- 6. CAUTION! Always isolate the voltage supply to the detector before changing the switch on and switch off time delays.

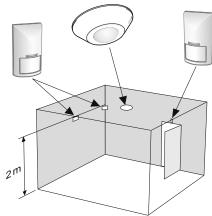


Figure 3. Suitable locations for the DETECT Occupancy room unit.

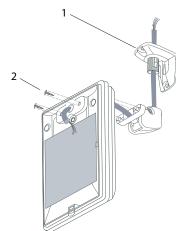


Figure 4. Installation of the DETECT Occupancy V110 with supplied mounting bracket (1).

Electrical data

DETECT Occupancy T 360

| Supply voltage | $24 \text{ V} \pm 2 \text{ V}, \text{AC/DC}$ |
|--------------------------------------|--|
| Power consumption | 1 VA |
| Ambient temperature: | -20° C till +50° C |
| Degree of protection | IP 20 |
| Man manufacilita la cal con contrata | 15 x 15 m |
| Max. permissable load on contacts | |
| DETECT Occupancy V110 | 24V AC/DC 3A |

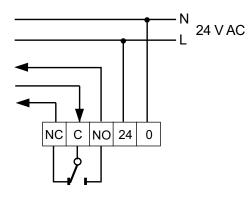


Figure 5. Wiring diagram. NC-C is closed if no occupant is present, NO-C is closed if an occupant is present.

Dimensions

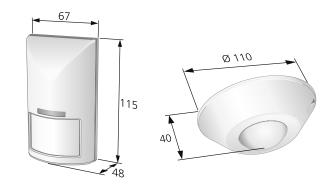


Figure 6. DETECT O V110 and DETECT O T360.

Order key

Product

| Presence sensor | DETECT O | b | -aaaa |
|------------------------|----------|---|-------|
| Version | | | |
| Type: | | | |
| V110 (wall mounted) | | | |
| T360 (ceiling mounted) | | | |
| , | | | |

Specification example

Swegon's electronic presence detector, DETECT Occupancy, which is included in Swegon's demand controlled ventilation system with the following functions:

- IR-detector of double enclosure type
- Changeover contacts
- Adjsutable on/off switching delay

Type: DETECT Occupancy V110 xx items

