

DETECT™ Occupancy a

Installation - Commissioning - Maintenance

20130109

Installation

The DETECT O can be installed at various places and heights in the room. The presence detector should be placed so that its detection zone will not be blocked by book shelves or partition walls and must not be exposed to direct sunlight.

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

The DETECT O V110 has a special wall bracket that enables it to be secured to a wall or ceiling. The presence detector can also be secured to a wall without the wall bracket. See Figure 3.

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 all the cable lead-through openings to prevent insects from entering the detector housing.
5. Refit the front.

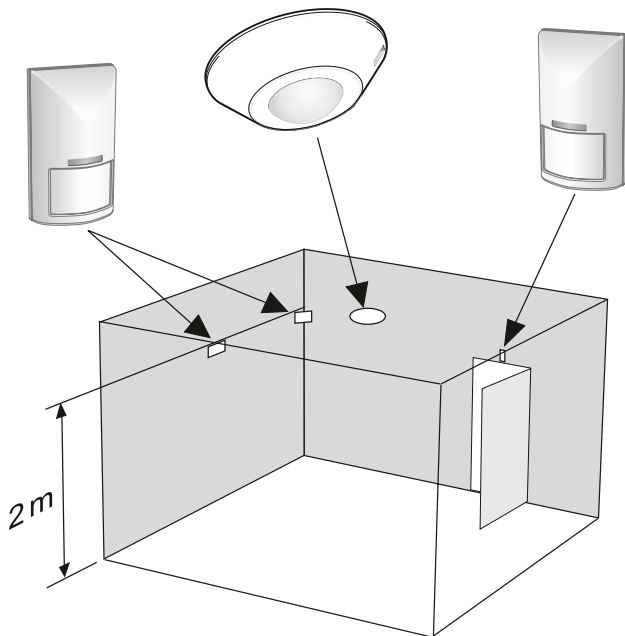


Figure 1. Position in the room. DETECT O must not be exposed to direct sunlight, or temperatures outside the 0-50 °C range.

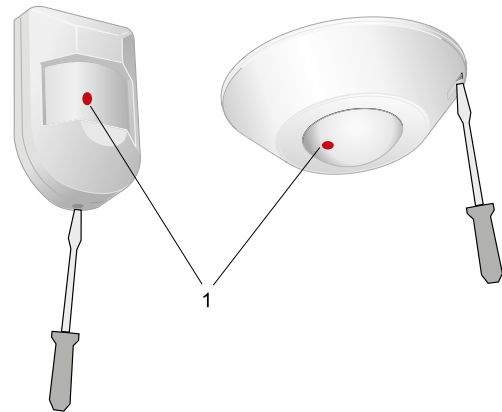


Figure 2. To open the housing, use a screwdriver.

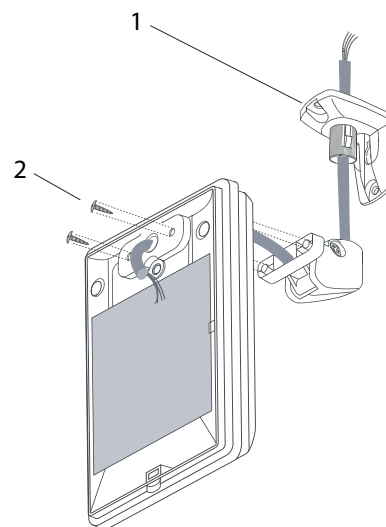


Figure 3. Installation of the DETECT O V110 with supplied mounting bracket (1).

1 = Wall bracket. Run the cable through the wall bracket before securing it.

2 = Use the enclosed screws for securing the wall bracket to the wall.

A type EKKX 4x0.5 mm cable is recommended.

Wiring

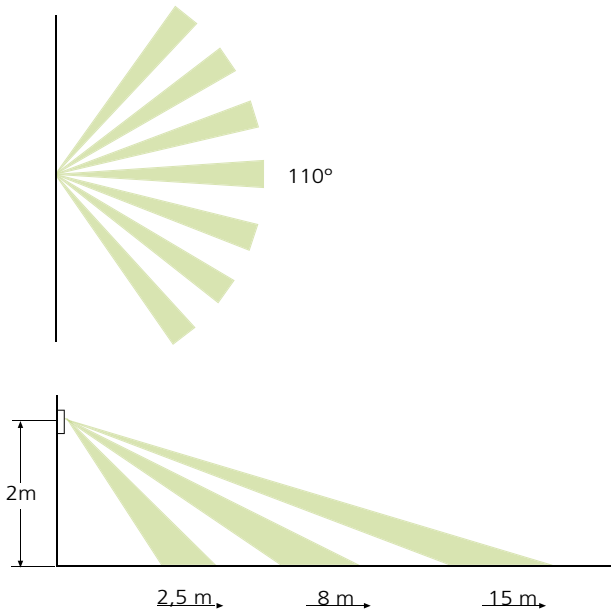


Figure 4. To adjust the detection zone in relation to the installation height, DETECT V180.

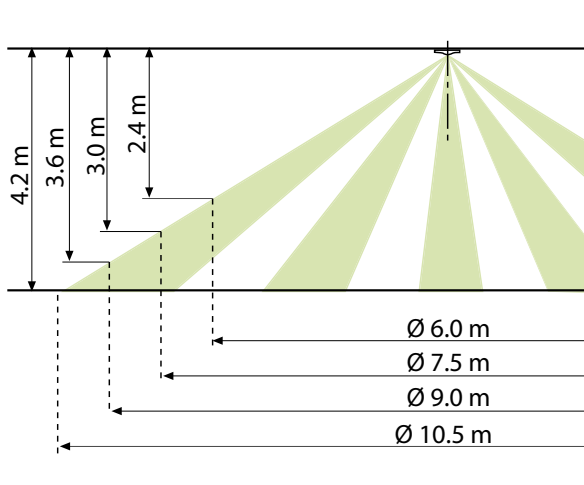


Figure 5. Detection zone. Ceiling-mounted DETECT O T360.

The setting of times in DETECT O*)

On	Off	Position	On	Off
● ● ■ ■	■ ■	A	0 sec.	5 sec.
■ ■ ● ●	● ●	B	10 sec.	1 min.
● ● ● ●	● ●	C	30 sec.	5 min.
● ● ● ●	● ●	D	1 min.	10 min.
● ● ● ●	● ●	E	5 min.	20 min.
● ● ● ●	● ●	F	10 min.	30 min.

DETECT O is supplied as standard preset to position B for delayed switch on and position A for delayed switch off. Delayed switch off should be enabled when the sensor is used for ADAPT Damper or REACT. An appropriate delay is 10 minutes or longer.

Temperature relay in DETECT O*)

Jumper	Temp °C	Description
● ●	24	Enables normal regulation if the temperature exceeds the preset value
● ●	26	
■ ■	28	Enables normal regulation if the temperature is lower than the preset value
■ ■	15	
● ●	17	
● ●	19	

The built-in temperature control should not be enabled if the sensor is used together with the Wise system. Disconnect the jumpers.

*) Always switch off the power supply before repositioning the jumpers!

Maintenance

Dirty products must be cleaned by wiping or vacuum cleaning only.

Wiring diagrams

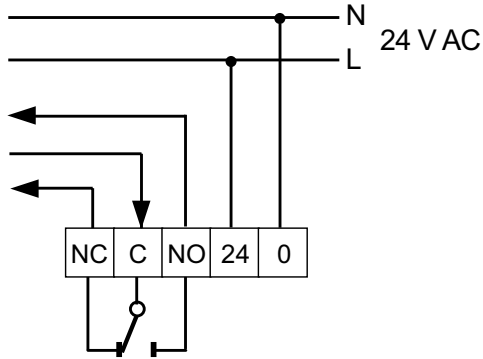


Figure 6. Wiring diagram. NC-C is closed if no occupant is present; NO-C is closed if an occupant is present.

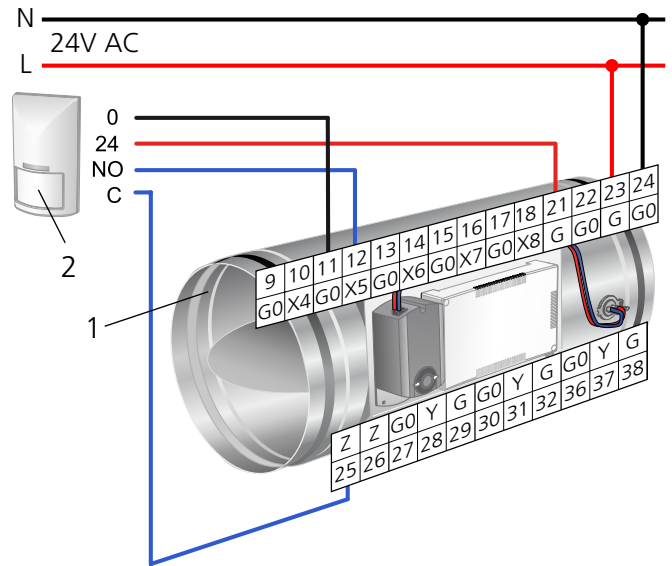


Figure 8. Wiring diagram for CONTROL Room.
1 = CONTROL Room for room regulation
2 = DETECT O

Note that a 4-wire cable (EKKX 4x0.5) is required. It is not possible to connect a jumper like on other products.

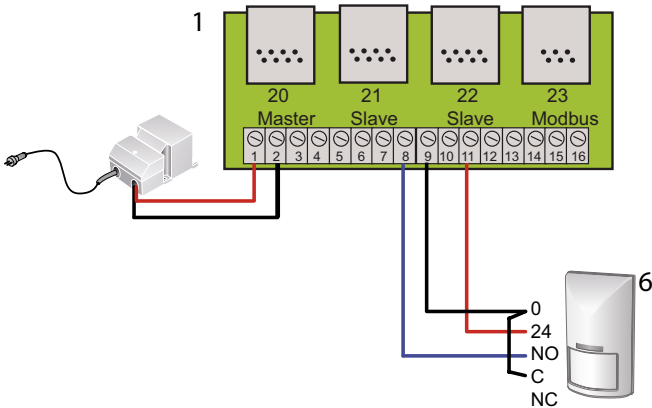


Figure 7. Wiring diagram for ADAPT Damper.
1 = The connecting card with wiring terminals in CONNECT Adapt.
6 = DETECT O

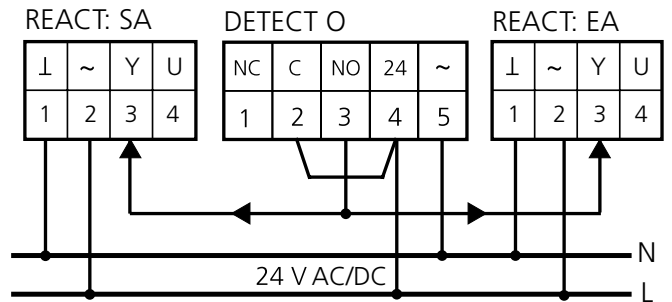


Figure 9. Wiring diagram for a variable flow damper with simplified operation, min. or max. airflow. For more functions, see the installation instructions for each specific VAV damper. The wiring diagram applies only to the REACT controller.

SA = Supply air
EA = Extract air