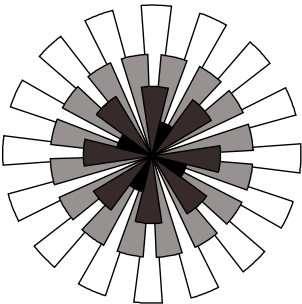




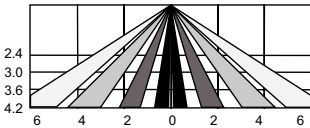
- Power supply 24 V AC/DC
- Intended for ceiling mounting
- 360° detection

IR24-PC is a 360° presence detector for automatic ventilation control of HVAC systems. It uses infrared light. The detector has a change-over output for activation/deactivation of a fan coil controller.

**Detection pattern**



Top view 360°



Side view

|                     |     |     |     |      |
|---------------------|-----|-----|-----|------|
| Mounting height (m) | 2.4 | 3.0 | 3.6 | 4.2  |
| Diameter coverage   | 6.0 | 7.5 | 9.0 | 10.5 |

**On/Off delays**

IR24-PC has individually settable On and Off delays. The delays are designed to provide better energy management of HVAC systems.

The On delay is the time given to the sensor to certify the occupancy before it activates the fan coil controller. The Off delay is the operating time for the fan coil after the last detection.

The On and Off delays are set by placing the jumper head on the corresponding pins according to the table and

# IR24-PC

**Presence detector**

IR24-PC is a presence detector for automatic ventilation control of HVAC systems.

- Individually settable On and Off delays
- Change-over output
- Unobtrusive design

figure below.

|     |    |    |     |     |      |      |
|-----|----|----|-----|-----|------|------|
|     | A  | B  | C   | D   | E    | F    |
| ON  | 0  | 10 | 30  | 60  | 300  | 600  |
| OFF | 10 | 60 | 300 | 600 | 1200 | 1800 |

(Values in seconds)

|   |    |     |
|---|----|-----|
|   | ON | OFF |
| A |    |     |
| B |    |     |
| C |    |     |
| D |    |     |
| E |    |     |
| F |    |     |

**Installation**

Loosen the screw and remove the cover. Carefully lift out the electronics cassette by bending the plastic clips outwards. Lead the cable into the bottom part. Mount the bottom part on the ceiling. Replace the electronics cassette and connect the cable to the corresponding terminals (see the section *Wiring* on the next page). Finally, replace the front cover.

**Note:** Do not touch the infrared sensor in the middle of the electronics cassette.

**Testing the function**

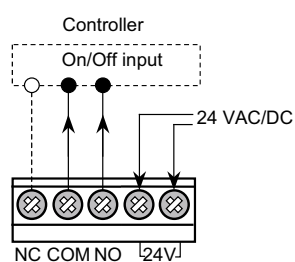
To test the function of the detector, apply power supply and wait for the detector to warm up (~25 sec.). The LED will blink (long and short) during the warm-up period. Ensure that the jumper head connectors of the On and Off delays are placed in the “A” position (the shortest time). Walk across the detection zones at normal speed. The LED will be lit when the sensor detects the motion.

**Note:** The LED will blink if a jumper head connector is not properly placed.

## Technical data

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| Power supply      | 24 +/- 2 V AC/DC                                    |
| Power consumption | 15 mA                                               |
| Output            | 200 mA, 24 V DC, change-over relay                  |
| Ambient humidity  | Max. 95% RH                                         |
| Temperature range | -20°C...+50°C                                       |
| Protection class  | IP20                                                |
| Mounting          | Ceiling mounting                                    |
| Mounting height   | 2.4...4.2 m                                         |
| Infrared sensor   | Dual element                                        |
| Detection range   | Height x 2.5 at 25°C                                |
| On delay          | 0, 10, 30, 60, 300 or 600 seconds (selectable)      |
| Off delay         | 10, 60, 300, 600, 1200 or 1800 seconds (selectable) |

## Wiring



NC-COM-NO: Output for On-Off control.

## Dimensions



mm

## Product documentation