



IR24-PC

Presence detector

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

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

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

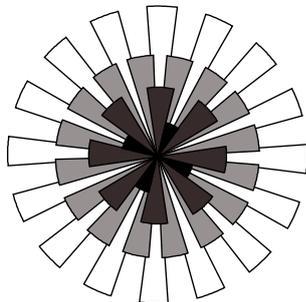
IR24-PC is a 360° presence detector for automatic ventilation control of HVAC systems. It uses infrared light. The detector has a change-over output for activation/deactivation of a fan coil controller.

figure below.

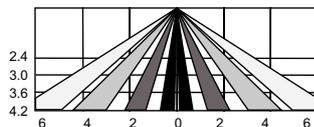
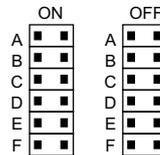
Detection pattern

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

(Values in seconds)



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

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.

On/Off delays

Testing the function

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

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.

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.

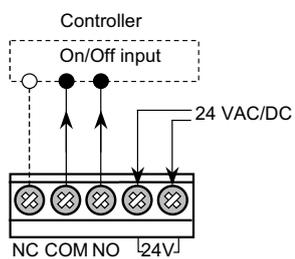
Note: The LED will blink if a jumper head connector is not properly placed.

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

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