

- 24 V AC/DC supply voltage
- Potential-free, change-over relay
- Individually settable ON- and OFF-delays

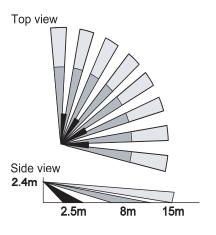
IR24-P is a motion detector designed for automatic ventilation control of HVAC systems. It uses infrared light. The detector has a potential-free change-over relay for activation/deactivation of for instance a fan-coil controller. It saves money and gives higher comfort in premises requiring forced ventilation for shorter periods of time, such as conference rooms, assembly-halls etc. The unit can be wall or corner mounted with a 110°, 15m

detection range.

Range adjustment

In order to suit different rooms or areas, the detection range of IR24-P can be adjusted by changing the direction of the sensor. To change the sensor direction, release the screw on the mounting bracket and then carefully move the sensor to the direction desired.

Detection pattern



IR24-P

Motion detector

Motion detector for automatic room control.

- For wall or ceiling mounting
- Unobtrusive design

ON/OFF-delays

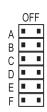
IR24-P has individually settable ON- and OFF-delays. The delays are designed to provide better energy management of HVAC systems.

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 figure below.

	Α	В	С	D	Е	F
ON	0 sec.	10 sec.	30 sec.	1 min.	5 min.	10 min
OFF	10 sec.	1 min.	5 min.	10 min.	20 min	30 min

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Operation

A: Standby

After the warm-up time expires, the sensor enters into standby mode. The detector will check whether both delays are set. If not, the green LED will blink to indicate.

B: Relay ON-delay

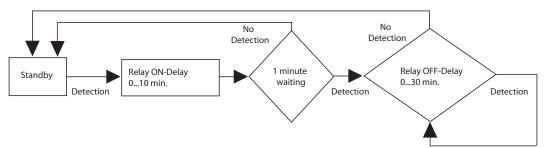
Relay ON-delay is the time given the sensor to verify true occupancy before activating the relay output. Any further detection during ON-delay will NOT reset the timer.

C: 1-minute waiting

When relay ON-delay expires, the sensor enters into a 1-minute waiting time. If no detection occurs within 1 minute, the sensor will return to standby mode. If any detection occurs, then relay output will be activated and relay OFF-delay will be started.

D: Relay OFF-delay

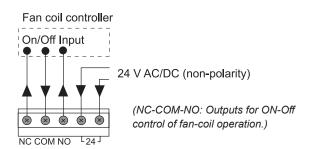
Relay OFF-delay is the time the relay should be active before switching off. Every new detection will reset the timer



Installation and wiring

N.B.: Do not install the detector where it is exposed to direct sunlight or directly above strong sources of heat. Make sure the detection area does not have any obstruction (plants, large pieces of furniture, curtains etc.) which may block the detection.

- 1. Mount the base of mounting bracket in the selected position. Lead the cable through the access tunnel of mounting bracket or through the knockout openings.
- 2. Open the front cover by loosening the locking screw at the bottom. Lead the cable into the unit and assemble the mounting bracket with the unit (see description picture on the right).
- **3.** Connect the cable to the corresponding terminals according to the instructions below.



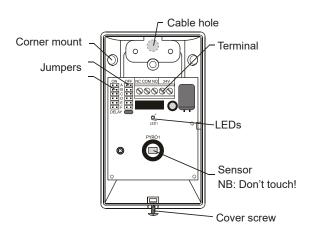
4. Replace the front cover and then proceed with the walking test.

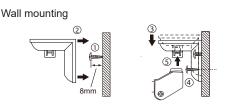
NB: Do not touch the infrared sensor in the middle of the electronics cassette.

Walking test

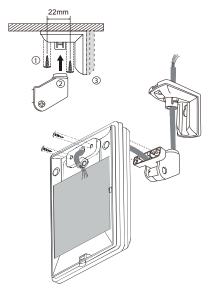
To test the function of the detector, apply power and wait for the detector to warm up (~25 s). The LED will blink (long and short) during the warm-up period. Ensure that the jumper head connectors of the On and OFF-delays are placed in the "A" position (the shortest time). Walk across the detection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

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









Technical data

 $\begin{array}{ll} \mbox{Infrared sensor} & \mbox{Dual element} \\ \mbox{Supply voltage} & 24 \pm 2 \mbox{ V AC/DC} \\ \mbox{Detection range} & 15 \mbox{ x 15 m at } 110^{\circ} \mbox{ angle} \\ \mbox{Power consumption} & 5 \mbox{ mA @24 V AC} \end{array}$

Output 200 mA, 24 V AC/DC, potential-free change-over relay

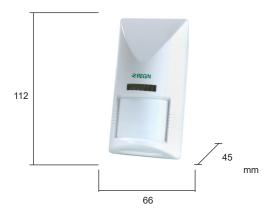
Ambient humidity
Temperature range
Protection class
Mounting bracket
Mounting height
Detectable speed

Max. 95% RH
-20...+50°C
IP20
MB-99
1.8...3.6 m
0.1...3.0 m/s

ON-delay 0, 10, 30, 60, 300 or 600 s (selectable)
OFF-delay 10, 60, 300, 600, 1200 or 1800 s (selectable)

This product carries the CE-mark. More information is available at www.regincontrols.com.

Dimensions



Product documentation

Document	Type	
Instruction IR24-P	Instruction for IR24-P	

The product documentation is available at www.regin.se.

