

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

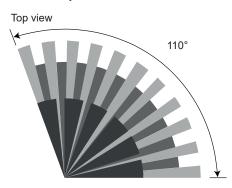
IR24-P is a motion detector designed for automatic ventilation control of HVAC systems. It uses infrared light. The detector has a potential-free change-over relay for activation/deactivation of for instance a fan-coil controller. It saves money and gives higher comfort in premises requiring forced ventilation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

The unit can be wall or corner mounted with a  $110^\circ,\,15m$  detection range.

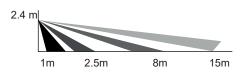
#### **Range adjustment**

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**



Side view



# IR24-P

#### Motion detector

Motion detector for automatic room control.

- For wall or ceiling mounting
- Unobtrusive design

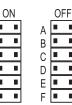
#### **ON/OFF-delays**

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.

I		А	В	С	D	Е	F	Δ
	ON	0 sec.	10 sec.	30 sec.	1 min.	5 min.	10 min	В
	OFF	10 sec	1 min.	5 min.	10 min.	20 min.	30 min	C D
								E



F



# 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**

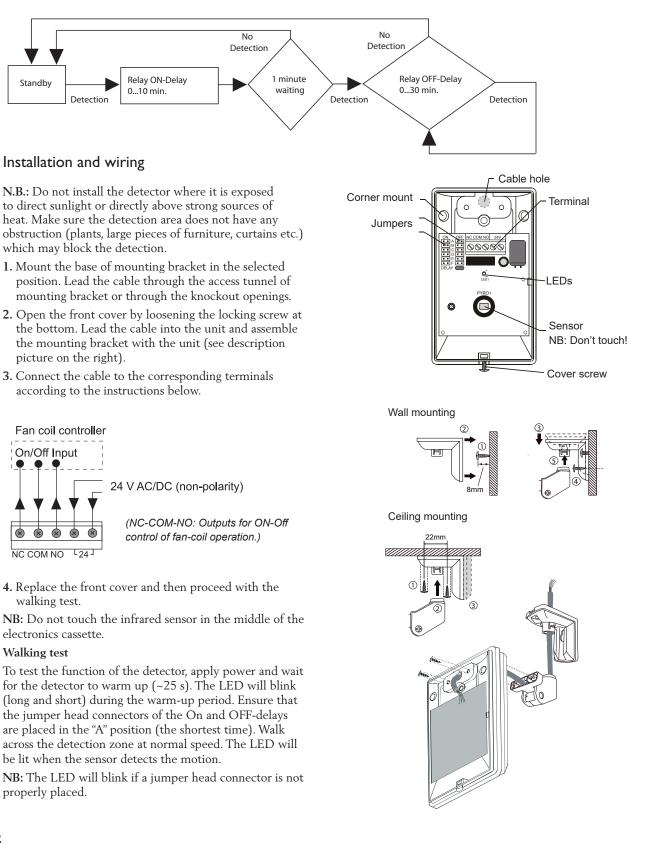
Relay ON-delay is the time given the sensor to verify true occupancy before activating the relay output. Any further detection during ON-delay will NOT reset the timer.

#### 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.



#### 2

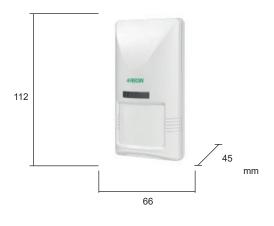
## Technical data

Infrared sensor	Dual element
Supply voltage	24 ± 2 V AC/DC
Detection range	15 x 15 m at 110° angle
Power consumption	5 mA @24 V AC
Output	200 mA, 24 V AC/DC, potential-free change-over relay
Ambient humidity	Max. 95% RH
Temperature range	-20+50°C
Protection class	IP20
Mounting bracket	MB-99
Mounting height	1.83.6 m
Detectable speed	0.13.0 m/s
ON-delay	0, 10, 30, 60, 300 or 600 s (selectable)
OFF-delay	10, 60, 300, 600, 1200 or 1800 s (selectable)

# CE

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

### Dimensions



#### Product documentation

Document	Туре
Instruction IR24-P	Instruction for IR24-P

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

