

- >> Fully digital detection
- >> 360° lens
- >> Digital temperature compensation
- >> Pre-alarm feature
- >> Powered by 24 V AC/DC

Passive Infrared Ceiling Sensor

FX-PIR-24-C360 is a digital passive infrared detector in oval enclosure, designed for ceiling mounting. It is ideally suited for use in locations where wall mounting is difficult or just impossible, for example, in rooms with fully glazed walls or showcases. It can also be used in spacious premises, because its design allows detection on a large area. The Product is provided with a dual element PIR sensor and digital motion detection algorithm, and that's why it is characterized by good immunity to interference and false alarms. Three-step sensitivity control makes it possible to adjust the device performance to requirements of the user and the detected premises.

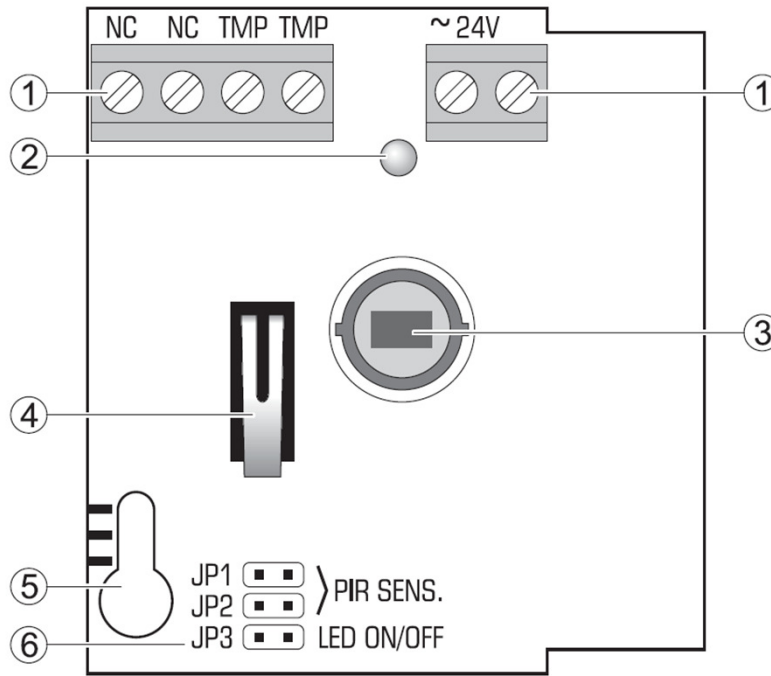


The detector has a built-in pre-alarm feature and tamper switch to protect it against opening the enclosure. The detector is powered from a 24 V DC or AC source, so it can be installed in systems running on 24 V (instead of the standard 12 V) voltage. Detector can be used to detect violations in the protected area and detect occupancy for lighting control and building automation functions. Same detector can be used for intruder alarms and to control lights, temperature set point, ventilation etc.

Technical features

Operating voltage:	24 V AC/DC ±15%
Max. current consumption (±10%):	27 mA for 24 V AC 14 mA for 24 V DC
Alarm signaling time:	2 s
Coverage area:	when mounted at a height of 2.4m.....36 m2 when mounted at a height of 3.7m.....80 m2
Detectable motion speed:	0.3...3 m/s
Operating temperature range:	-30...+55 °C
Operating humidity:	0..... 93±3%
Environmental class according to EN50130-5:	II
Dimensions:	ø97 x 29 mm
Recommended installation height:	from 2.2 m to 4.5 m
Weight:	64 g
Manufacturing Process:	ISO-9001

Wiring Diagram



View of detector electronics board.

1. Terminals:
NC – relay (NC)
TMP – tamper contact
24V – supply input (AC/DC)
2. Red color LED to indicate:
-Prealarm – short flash (approx. 120 ms);
-Alarm – ON for 2 seconds;
-Warm-up – blinking rapidly;
-Low supply voltage – ON.
3. Pyro electric sensor.
4. Tamper contact.
5. Fixing screw hole.
6. Detector configuration pins:
PIR SENS. - setting detector sensitivity
LED ON/OFF - enabling/disabling the LED indicator. The LED indicator is enabled when the pins are shorted



Setting the detector sensitivity

(A – low sensitivity, B and C – medium sensitivity, D – high sensitivity)

[■ – pins shorted; [] – pins open].

Part numbers

FX-PIR-24-C360

Ceiling mount digital PIR