

User Manual Motion Detector Infra Garde 360AP

Warning!

- Any work on the main power supply must only be completed by trained specialists.
- The product must be installed in accordance with installation guidelines/standards specific to your country.
- Disconnect the 230V power supply before starting the installation process.
- As a precautionary measure, the power supply of the light should always be fitted with a (250VAC, 10A) type C fuse in accordance with EN60898-1.
- Faulty lamps may cause a short-circuit and thereby permanently damage the device.
- Disconnect power prior to replacing a lamp.
- To ensure the operational reliability of the detector, keep a minimal distance of 1m to lamps installed on the same height level.
- Lamps installed underneath the detector or in the detection area may disturb the functionality. Keep the detector away from heating devices.
- In case of malfunction, such as continuous lighting, or false triggering please refer to the troubleshooting section on this page.

Function

The detector reacts to the motion of heat (positive or negative in relation to the environment). If a person approaches the monitored area, the device will turn on the connected light automatically. If the person leaves the area, the light will be switched off after the preset duration (short impulse, 10 sec. to 20 min.).

The connected light will be turned on only when the ambient light value is below the adjusted value.

Installation

The installation height should be about 2 to 4 m. Wire the detector as follows:

phase / outer conductor (L) brown;
neutral- / neutral conductor (N) blue;
switching output / switched phase/ outer conductor (L') red.

Screw and tighten the detector to the ceiling. The device is operational after approx. 1 minute from connecting to mains voltage.

TIME

The timer determines for how long the lights will remain on following the last movement in the detection area. Choices are from approx.. 5 sec. to 7 min. Recommendation: approx. 2 min. in staircases, 7 min. in restrooms, etc.

LUX (twilight sensor)

The twilight sensor regulates the operating threshold (light value) of the detector determining when the device should be activated. Minimum value 5 lux (moon symbol): The detector will turn on the light at night. Maximum value 1000 lux (sun symbol): The detector will turn on the light during daytime as well.

Recommendation: approx. 5 lux in staircases, 200 lux in office spaces.

SENS (sensitivity/detection range)

Detection range adjustment max = approx. 16 m diameter (walking person). Should the detector be too sensitive (triggering without movement in the detection range), the sensitivity/range can be reduced.

Push-button operation

The light can be switched on permanently through the installation of a break-contact push button connected in series to the input phase.

Lights on and automatic operation: interrupt mains power for at least 4 seconds.

Lights permanently on (continuous light): interrupt mains power within 2 seconds.

Press button for at least 4 seconds to switch from continuous light mode back to automatic operation.

Check LED

The green LED flickers while the detector registers movements.

Connecting electrical loads

High inrush currents will considerably shorten the lifetime of the detector's in-built relay. Please verify the technical data provided by the lamp or luminaires manufacturer concerning inrush currents, specifically with compact fluorescent, fluorescent lamps, electronic ballast, etc. in order not to overload the internal relay.

We recommend connecting a maximum of three to four motion detectors in parallel.

Loads such as electronic ballast (e.g. for fluorescent lamps) and compact fluorescent lamps, should be switched via external conductor, direct switching is not recommended!

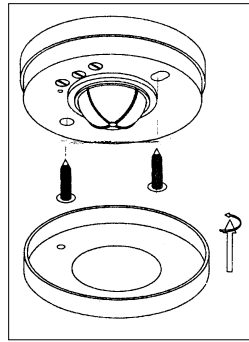
Technical Data

Nominal power: 230V/50Hz
 Switching power: 2000W / 10A max. (cos φ = 1)
 500VA / 2.5A inductive (cos φ = 0,5)
 Time adjustment: approx.. 5 sec. to 7 min.
 Twilight switch: approx. 5-1000 Lux

Detection coverage: 360°
 Range: \varnothing 6 to 16m .
 (depending on inst. height)

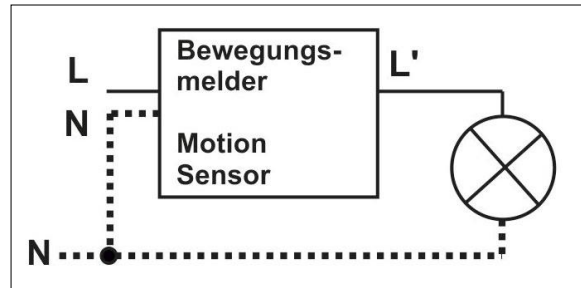
IP protection: IP20 indoors / class II

Installation

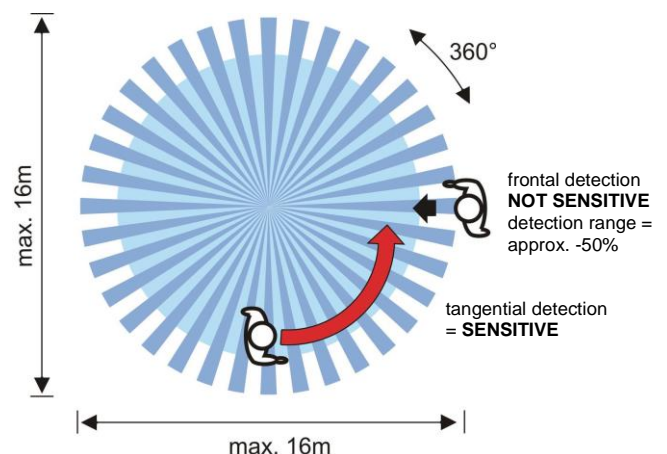


Remove front lid by rotating it in an anti-clockwise direction. Mark 2 drill holes at the required position. Drill holes fitting the dowels provided in the scope of delivery in both diameter and length; insert the dowels in the drill holes. Fix the detector on the ceiling with the screws included in the package.

Wiring diagram



Detection Range



The 360° omnidirectional detection zone and the dense detection field guarantee an optimal function. The range depends on the installation height and walking direction (high sensitivity when cutting or changing a switching segment). Since the detector reacts to temperature differences between heat source and ambient temperature, the response may vary depending on the installation site (floor heating, hot environment, etc.).

Troubleshooting

error

light does not turn on:

cause/amendment

- twilight adjustment value too low
- connected lamp defective
- check mains power / fuses

detector triggers without reason/light never turns off:

- check detection area for potential reasons of false triggering: draught, animals, heating, etc. may all provoke faulty switching!
- detector is too sensitive, reduce the detection range sensitivity, or cover disturbing segments on the lens by adhesive tape.
- check distances to lamps (heat reflection or direct light influence)
- connect RC element in parallel to transformers, relays, electric ballast
- twilight adjustment set too high (lower the value).

turns the light on during daytime

Züblin

