

Technische Daten

Abmessungen und Varianten

Durchmesser x Höhe	121 mm x 57 mm
Farben	weiß, schwarz

Leistungsdaten

Netzspannung	220 – 240 V
Netzfrequenz	50/60 Hz
Schaltleistung	
ohmsche Last	Glühlampen maximal 2000 W
unkompensiert, induktiv, cos ϕ 0,5	Leuchtstofflampen maximal 500 VA
elektronische Vorschaltgeräte (EVG), kapazitativ	Leuchtstofflampen, Energiesparlampen, LED-Leuchten, maximal 8 x à 58 W, C ≤ 176 µF, Gesamtkapazität: 230 VAC

Sensor

Sensortechnik	Passiv-Infrarot, 3 Pyro-Sensoren
Erfassungswinkel	360°
Öffnungswinkel	90°
Unterkriechschutz	vorhanden

Reichweite und Einstellungen

Erfassungsbereich und Reichweite	Radius 12 m, bei einer Montagehöhe von 2,50 m bis 2,80 m
Schwellenwerte Einschaltung	2 Lux bis 1000 Lux (Tageslichtbetrieb)
Nachlaufzeit, stufenlos einstellbar	5 Sekunden bis 15 Minuten

Umgebung

Schutzart	IP 54
Temperaturbereich	-20 °C bis +50 °C

Installation instructions

About these instructions

Instructions to take action are shown as follows:

► Instruction to take action

In the safety advice, the warning symbol and signal word indicate the severity of danger:



Signal word

Type and source of danger

Measures to avoid dangers

► Read these installation instructions before installing the product.

Further information

You will find further information at: www.steinel.de

Proper use

The IS 360-3 outdoor sensor can be used as an indoor and outdoor motion detector. Working with three pyro sensors, it detects heat radiated from moving objects and switches ON lights that are connected to it. The product is only suitable for installing on ceilings and may only be operated in line with the technical specifications.

All connecting work at the electrical connections may only be carried out by a qualified electrician and in compliance with national regulations.

Product parts (Fig. A)

Holder for ceiling mounting

- 1 Rating plate
- 2 Mounting holes
- 3 Connections
 - N** neutral conductor
 - Arrow** Power supply lead for light
 - L** Mains power supply
- 4 Cable entries
- 5 Contact point for protective-earth conductor

Sensor housing

- 6 two control dials:
 - Response threshold and stay-ON time
- 7 Housing attachment with screw
- 8 Shrouds
- 9 Cover ring
- 10 Pilot holes for drainage
- 11 Fixing material

Checking package contents and product

- Check to make sure that the product is complete and undamaged.
- Do not open the housing if it is damaged, and do not repair the product yourself.
- Carefully pack the damaged product and send it with a brief description of the fault and proof of purchase (invoice) to a Steinel service station.

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Preparing to install (Fig. B)

Defining point of installation

- ▶ Define the mounting position as follows:
- Minimum distance of 50 cm from lights and other sources of heat
- Unobstructed line of vision between the sensor and detection zone (obstacles include walls, glass panels, trees)
- Mounting height of 2.50 m to 2.80 m for optimum reach

Planning usage

Caution

Risk of short-circuiting from overloading

When planning the number of lights to connect, always be sure **not to exceed the maximum switching capacity**, e.g. **2000 watts** for light bulbs, see section "Technical specifications".

Checking ambient conditions

If you are using the product in a very damp or humid environment:

- ▶ Drill drainage holes in the pilot holes (10) using a 5 mm drill bit

Installing (Fig. C)

Danger

Danger to life from touching live cables!

Disconnect cables from the power supply!

- ▶ Detach the cover ring (9) and the shrouds (8).
- ▶ Undo the housing attachment screw (7) and push it out of the holder.
- ▶ Drill holes at the intended mounting position.
- ▶ Attach the holder with the fixing material (11).

Connecting IS 360-3 (Fig. D)

Danger

Danger to life from electric shock!

All work at the connections may only be performed by a qualified electrician.

- ▶ Using a voltage tester, check to make sure that all cables are disconnected from the power supply.
- ▶ Thread the cables through the cable entries (4).
- ▶ Attach the PE conductor (yellow and green conductor) at the contact point (5).
- ▶ Connect the neutral conductor (blue or grey conductor) to the neutral conductor terminal **N**.
- ▶ Connect the live (black) conductor to the mains power supply terminal **L**.

Connecting power supply lead for lights

- ▶ Connect the power supply lead for light (brown) to the **arrow** terminal.

Note

Protection class IP54 is only ensured if the sealing plugs are fitted.

Connection examples (Fig. E)

Danger

Danger to life from electric shock!

All work at the connections may only be performed by a qualified electrician.

Connecting lights

- ▶ Connect lights that do not have a neutral conductor as shown in connection example 1.
- ▶ Connect lights that do have a neutral conductor as shown in connection example 2.

Installing two-circuit switch

If you want to switch OFF all connected lights via switch:

- ▶ install a two-circuit switch for manual and automatic operation (connection example 3).

Installing two-way switch

If you want to switch ON and OFF manually and also use sensor mode (automatic):

- ▶ Install a two-way switch (connection example 4).

Two-way switch options:

- **Position I** Sensor mode (switching ON and OFF automatically)
- **Position II** manual operating mode: switching ON and OFF via switch; after switching OFF, sensor mode is reactivated

Activating and deactivating manual override

A two-way switch provides a manual override function for lights connected.

To activate manual override:

- ▶ Turn the light switch to the OFF and ON positions twice in rapid succession (within less than half a second). Manual override keeps light ON permanently for four hours and then returns to sensor mode.

To deactivate manual override:

- ▶ Turn the light switch to the OFF and ON position once in rapid succession (within less than half a second). The light immediately switches to sensor mode.

Settings (Fig. F)

During installation or at a later time, you can infinitely adjust the stay-ON time and the response threshold via the control dials.

- ▶ Using a screwdriver, turn the control dials to the chosen positions:



Stay-ON time

+ maximum: 15 minutes

– minimum: 5 seconds

If you have set a stay-ON time of 15 minutes, the sensor will switch OFF the connected lights after 15 minutes.

If the sensor detects further movement, the stay-ON time will start from the beginning again.

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Using the **response threshold**, you can infinitely adjust the level of ambient light at which the sensor switches on the lights connected.



Response threshold

+ maximum: 1000 lux
Daylight mode: the sensor switches light ON in daylight when it identifies a movement.



– minimum: 2 lux
Twilight setting: the sensor switches light ON at twilight. If the ambient brightness is brighter than 2 lux, the sensor does not switch light ON.

Detection zone (Fig. G)

Is the sensor switching light ON too often because it is being triggered by objects in the detection zone (e.g. in response to passing vehicles)?

You can mask the sensor with shrouds (8) to restrict the detection zone.

- ▶ Detach the cover ring and the shrouds.
- ▶ Using a pair of scissors, cut the shrouds to size horizontally and/or vertically.
- ▶ Fit the shrouds to the sensor and, if necessary, adjust them to the appropriate position.
- ▶ Re-fit the cover ring.

Operation

Perform function test

- ▶ Set the response threshold to the current ambient brightness. The factory setting is daylight operation.
- ▶ Set the stay-ON time to a very short period. The factory setting is 5 seconds.
- ▶ Fit the sensor housing onto the holder and push it home until it clips into place.
- ▶ Tighten the housing attachment screw (7).
- ▶ Switch the power ON.
- ▶ Check whether the sensor responds to a movement and switches the light ON.

If it does, the sensor is ready for operation:

- ▶ Select your chosen settings and refit the cover ring (9).

If it does not:

- ▶ Check the connections and the voltage supply.

Troubleshooting



Danger

Danger to life from touching live components!

All work at the connections may only be performed by a qualified electrician. Disconnect cables from the power supply!



Attention

Product damage from improper servicing

Servicing or repair work may only be performed by Steinel service stations.

Sensor will not switch ON

Either incorrect settings have been made, there is a power-related fault or the sensor is faulty:

- ▶ Check the setting for the response threshold and, if necessary, set a higher lux level.
- ▶ Check the cables, connections and the voltage supply, change a fuse if necessary.
- ▶ Carry out a function test on the sensor and on the lights connected, replacing any faulty items.

Sensor will not switch OFF

Either incorrect settings have been made, manual override is activated or there is permanent movement or a source of heat in the detection zone.

- ▶ Check whether the response threshold setting is too low, correcting the setting if necessary.
- ▶ Check whether the light has been switched ON manually via a switch.
- ▶ Check whether there are any sources of heat or anything else inadvertently triggering the sensor in the detection zone and remove them.
- ▶ If necessary, limit the detection zone with the shrouds.

Sensor switching ON when it should not

The sensor is detecting constant movement or a source of heat in the detection zone, causing it to switch ON too often or when it should not.

- ▶ Check the detection zone for sources of heat or movement.
- ▶ Eliminate permanent sources of heat from the detection zone.
- ▶ If necessary, limit the detection zone with the shrouds.

Disposal

Electrical and electronic equipment, accessories and packaging must be recycled in an environmentally compatible manner.



Do not dispose of electrical and electronic equipment as domestic waste.

EU countries only:

Under the current European Directive on Waste Electrical and Electronic Equipment and its implementation in national law, electrical and electronic equipment no longer suitable for use must be collected separately and recycled in an environmentally compatible manner.

Warranty

3 YEAR
MANUFACTURER'S
WARRANTY

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Steinel provides a 3-year warranty from the date of purchase for defects caused by material flaws or manufacturing faults.

Once the warranty expires, Steinel provides a repair service at its service stations via the factory service.

Service

- Contact the service stations through your country's branch of Steinel Vertrieb GmbH. You will find contact details on the back of these instructions.

Technical specifications

Dimensions and versions

Diameter x height	121 mm x 57 mm
Colours	white, black

Specifications

Supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Switching capacity	
Resistive load	Light bulbs, maximum 2000 W
Uncorrected, inductive, cos ϕ 0.5	Fluorescent lamps, maximum 500 VA

Electronic ballasts, capacitive	Fluorescent lamps, low-energy bulbs, LED lights, max. 8 x 58 W each, C $\leq$ 176 μ F, total capacity: 230 VAC
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Sensor

Sensor technology	Passive infrared, 3 pyro sensors
Angle of coverage	360°
Angle of aperture	90°
Sneak-by guard	provided

Reach and settings

Detection zone and reach	12 m, at a mounting height of 2.50 m to 2.80 m
Switching ON at threshold levels	2 lux to 1000 lux, (daylight operation)
Stay-ON time, continuously variable	5 seconds to 15 minutes

Environment

IP rating	IP54
Temperature range	-20°C to +50°C

Instructions de montage

À propos de ces instructions

Les instructions nécessitant une action sont signalées comme suit :

- Instruction nécessitant une action

Dans les consignes de sécurité, le symbole d'avertissement et la mention indiquent la gravité du danger :



Mention

Type et source du danger

Mesures pour écarter les dangers

- Lisez impérativement ces instructions de montage avant de monter l'appareil.

Informations complémentaires

Vous trouverez des informations complémentaires sur le site Internet www.steinel.de

Utilisation conforme aux prescriptions

Le détecteur extérieur IS 360-3 peut être utilisé comme un détecteur de mouvement à l'intérieur et à l'extérieur. Équipé de trois détecteurs pyroélectriques, il détecte le rayonnement de chaleur invisible émis par les corps en mouvement et allume les luminaires raccordés. L'appareil a été uniquement conçu pour être installé au plafond et ne doit fonctionner que conformément aux indications des caractéristiques techniques.

Uniquement des électriciens spécialisés sont autorisés à effectuer tous les travaux de branchement aux raccords électriques conformément aux prescriptions actuellement en vigueur dans le pays d'utilisation.

Vue d'ensemble de l'appareil (fig. A)

Fixation pour le montage au plafond

- 1 Plaque signalétique
- 2 Trous pour la fixation
- 3 Branchements
 - N Neutre
 - Flèche Câble d'alimentation pour le luminaire
 - L Alimentation électrique

- 4 Passe-câbles
- 5 Point d'appui pour la terre

Boîtier du détecteur

- 6 Deux boutons de réglage : seuil de réaction et temporisation
- 7 Fixation du boîtier par une vis
- 8 Caches enfichables
- 9 Bague de recouvrement
- 10 Avant-trous pour évacuer l'humidité ou l'eau
- 11 Accessoires de fixation

Contrôler si la livraison est complète et le parfait état de l'appareil

- Contrôlez si la livraison est complète et si l'appareil est en parfait état.
- N'ouvrez pas le boîtier s'il est endommagé et ne réparez pas vous-même l'appareil.
- Emballez avec soin un appareil endommagé et envoyez-le à un point de service après-vente Steinel accompagné d'une description succincte du défaut et d'une preuve d'achat (facture).

Préparer le montage (fig. B)

Déterminer le lieu de montage