




11. Betriebsstörungen		
Störung	Ursache	Abhilfe
Ohne Spannung	<ul style="list-style-type: none"> ■ Sicherung defekt, nicht eingeschaltet ■ Kurzschluss 	<ul style="list-style-type: none"> ■ neue Sicherung, Netzschalter einschalten, Leitung überprüfen mit Spannungsprüfer ■ Anschlüsse überprüfen
Schaltet nicht ein	<ul style="list-style-type: none"> ■ bei Tagesbetrieb, Dämmerungseinstellung steht auf Nachtbetrieb ■ Glühlampe defekt ■ Netzschalter AUS ■ Sicherung defekt 	<ul style="list-style-type: none"> ■ neu einstellen ■ Glühlampen austauschen ■ einschalten ■ neue Sicherung, evtl. Anschluss überprüfen
Schaltet nicht aus	<ul style="list-style-type: none"> ■ dauernde Bewegung im Erfassungsbereich ■ geschaltete Leuchte befindet sich im Erfassungsbereich und schaltet durch Temperaturveränderung neu ■ durch den hausinternen Serienschalter auf Dauerbetrieb 	<ul style="list-style-type: none"> ■ Bereich kontrollieren ■ Bereich kontrollieren ■ Serienschalter auf Automatik
Schaltet immer EIN/AUS	<ul style="list-style-type: none"> ■ geschaltete Leuchte befindet sich im Erfassungsbereich ■ Tiere bewegen sich im Erfassungsbereich 	<ul style="list-style-type: none"> ■ Bereich kontrollieren ■ Bereich kontrollieren
Schaltet unerwünscht ein	<ul style="list-style-type: none"> ■ Wind bewegt Bäume und Sträucher im Erfassungsbereich ■ Erfassung von Autos auf der Straße ■ plötzliche Temperaturveränderung durch Witterung (Wind, Regen, Schnee) oder Abluft aus Ventilatoren, offenen Fenstern 	<ul style="list-style-type: none"> ■ Bereich kontrollieren ■ Bereich kontrollieren ■ Bereich verändern, Montageort verlegen

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<p>1. About this document</p> <p>Please read carefully and keep in a safe place.</p> <ul style="list-style-type: none"> - Under copyright. Reproduction either in whole or in part only with our consent. - Subject to change in the interest of technical progress. <p>Symbols</p> <p> Hazard warning!</p> <p> Reference to other information in the document.</p> <p>2. General safety precautions</p> <p> Disconnect the power supply before attempting any work on the unit.</p> <ul style="list-style-type: none"> • During installation, the electric power cable to be connected must not be live. Therefore, switch off the power first and use a voltage tester to make sure the wiring is off-circuit. • Installing the sensor involves work on the mains power supply. This work must therefore be carried out professionally in accordance with national wiring regulations and electrical operating conditions. • Only use genuine replacement parts. • Repairs may only be made by specialist workshops. 	<p>Proper use</p> <ul style="list-style-type: none"> - Sensor for recessing in indoor and outdoor ceilings. <p>Movement triggers lights, alarms and many other devices. For your convenience, safety and peace of mind. The integrated pyroelectric infrared detector senses the invisible heat radiated from moving objects (people, animals, etc.). The heat detected in this way is converted electronically into a signal that switches ON the connected load. Heat is not detected through obstacles, such as walls or panes of glass, and will therefore not activate the light.</p> <p>The infrared sensor can be used for switching light ON and OFF automatically. The unit is not suitable for burglar alarm systems as it is not tamperproof in the manner prescribed for such systems.</p> <p>Package contents (Fig. 3.1)</p> <p>Product dimensions (Fig. 3.2)</p> <p>Product components (Fig. 3.3)</p> <p>A Designer ring B Lens / lens enclosure C Twilight setting control dial D Time setting control dial E Clamping spring F Terminal block compartment</p> <p>Reach (Fig. 3.4)</p>

4. Electrical installation

- Switch OFF power supply (Fig. 4.1)

The mains power supply lead is a 3-core cable:

- L** = phase conductor (usually black, brown or grey)
- N** = neutral conductor (usually blue)
- PE** = protective-earth conductor (usually green/yellow)

Important: Incorrectly wired connections will produce a short circuit later on in the product or your fuse box. In this case, you must identify the individual cables and reconnect them. An appropriate power switch for switching ON and OFF can be installed in the supply lead.

Important: After connecting the power supply leads, always fit the cable clamp or cable clip to relieve strain on the cable. (Fig. 5.5)
The cable grip is suitable for cable diameters of 8.5 mm to 10 mm.

Connection diagram (Fig. 4.1)

Fig. 4.1/a

Light without neutral conductor

Fig. 4.1/b

Light with neutral conductor

Fig. 4.1/c

Connection via two-circuit single-interruption switch for manual and automatic operation

Fig. 4.1/d

Connection via two-way switch for manual override and automatic operation
Setting I: Automatic operation
Setting II: Manual operation, light permanently ON

Note: The system can only be switched OFF when installed as shown in Fig. 4.1/c.

5. Mounting

- Check all components for damage.
- Do not use the product if it is damaged.
- Select an appropriate mounting location, taking the reach and motion detection into consideration (Fig. 5.1 / 5.2). The most reliable way of detecting movement is to install the sensor aimed across the direction in which a person would walk and by ensuring that no obstacles (such as trees, walls etc.) obstruct the line of sensor vision.

Mounting procedure

- Switch OFF power supply.
- Drill ø 68 mm ceiling cut-out. (Fig. 5.3)
- Connect conductors. (Fig. 5.4)
- Fit cable clamp or cable clip to relieve strain on the cable. (Fig. 5.5)
- Screw cover onto the terminal block compartment. (Fig. 5.6)
- Set the clamping springs to the upright position and fit the unit into the ceiling cut-out. (Fig. 5.7)
- Switch ON power supply. (Fig. 5.7)
- Set functions → "6. Function".

6. Function

Factory settings

Twilight level: 2000 lux
Time setting: 8 s

- Detach designer ring from the enclosure. (Fig. 6.1)
- Unscrew the sensor (anticlockwise) to reach the control dial.

Time setting (Fig. 6.3)

The time you wish the connected light to stay ON can be infinitely adjusted from approx. 8 s to a maximum of 35 min.

Control dial position 1 is the shortest time, approx. 8 s.

Control dial position 6 is the longest time, approx. 35 s.

Note: It is recommended that the shortest time be set when adjusting the sensor for the detection zone and performing a function test.

Twilight setting (Fig. 6.4)

The desired response threshold of the detector can be infinitely varied from approx. 2 - 2000 lux.

Position 1 is daylight operation, approx. 2000 lux.

Position 6 is night-time operation, approx. 2 lux.

- After making the function settings, screw the sensor back in (clockwise) to return it to the home position. (Fig. 6.5)
- Push the designer ring onto the enclosure (Fig. 6.6)

Reach setting (Fig. 6.7 / 6.8)

The detection zone can be optimised to suit requirements. The shrouds supplied with the sensor can be used to mask out as many lens segments as you wish or shorten reach to suit the particular situation. This prevents the light from being activated unintentionally, e.g. by cars, passers-by etc. and allows you to target danger spots. The shrouds can be separated along the pre-grooved divisions in the vertical and horizontal directions or cut with scissors.

7. Operation / maintenance

Weather conditions may affect the way the motion detector works. Strong gusts of wind, snow, rain or hail may cause the light to come ON when it is not wanted because the sensor is unable to distinguish between sudden changes of temperature and sources of heat. The detector lens may be cleaned with a damp cloth if it gets dirty (do not use cleaning agents).

8. EC Declaration of Conformity

This product complies with the requirements defined in the following standards, legislation and directives:

- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU
- Low Voltage Directive 2014/35/EU

9. Warranty

This STEINEL product has been manufactured with utmost care, tested for proper operation and safety and then subjected to random sample inspection. Steinel guarantees that it is in perfect condition and proper working order. The warranty period is 36 months and starts on the date of sale to the consumer. We will remedy defects caused by material flaws or manufacturing faults. The warranty will be met by repair or replacement of defective parts at our own discretion. The warranty shall not cover damage to wear parts, damage or defects caused by improper treatment or



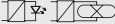
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maintenance. Further consequential damage to other objects shall be excluded. Claims under the warranty will only be accepted if the unit is sent fully assembled and well-packed with a brief description of the fault, a receipt or invoice (date of purchase and dealer's stamp) to the appropriate Service Centre.

Service:
Our Customer Service Department will repair faults not covered by warranty or after the warranty period has expired. Please send the product well-packed to your nearest Service Centre.



10. Technical specifications

Dimensions, Ø × H	78 × 89 mm
Minimum installation depth	54 mm less thickness of ceiling panel
Mains power supply	220-240 V, 50 / 60 Hz
Output	 Incandescent lamps, max. 1000 W at 230 V AC  Fluorescent lamps, max. 500 VA at $\cos \varphi = 0.5$, inductive load at 230 V AC  LED lamps, max. 6 × 58 W, $C \leq 132 \mu\text{F}$ at 230 V AC ^{*)}
Sensor technology	Passive infrared
Angle of coverage	360°
Reach	max. 4 m
Time setting	8 s - 35 min
Twilight setting	2-2000 lux
IP rating	IP54
Temperature range	-20°C to +40°C

^{*)} Fluorescent lamps, low-energy lamps, LED lights with electronic ballast (total capacity of all ballasts connected below the level stated).

11. Troubleshooting

Malfunction	Cause	Remedy
Without power	<ul style="list-style-type: none"> ■ Fuse faulty, not switched ON ■ Short circuit 	<ul style="list-style-type: none"> ■ Replace fuse, turn ON mains switch, check lead with voltage tester ■ Check connections
Does not switch ON	<ul style="list-style-type: none"> ■ Twilight setting in night-time mode during daytime operation ■ Bulb faulty ■ Mains power switch OFF ■ Fuse faulty 	<ul style="list-style-type: none"> ■ Adjust setting ■ Replace light bulbs ■ Switch ON ■ Fit new fuse, check connection if necessary
Does not switch OFF	<ul style="list-style-type: none"> ■ Continuous movement in the detection zone ■ Light being operated is located in detection zone and keeps switching ON as a result of temperature change ■ Set to continuous operation via indoor two-circuit single interruption switch 	<ul style="list-style-type: none"> ■ Check zone ■ Check zone ■ Set two-circuit single interruption switch to automatic operation
Keeps switching ON/OFF	<ul style="list-style-type: none"> ■ Light being operated is located in detection zone ■ Animals moving in the detection zone 	<ul style="list-style-type: none"> ■ Check zone ■ Check zone
Switches ON when it should not	<ul style="list-style-type: none"> ■ Wind is moving trees and bushes in the detection zone ■ Cars in the street are being detected ■ Sudden temperature changes due to weather (wind, rain, snow) or air expelled from fans, open windows 	<ul style="list-style-type: none"> ■ Check zone ■ Check zone ■ Change detection zone, change mounting location