

## Installation Instructions

Dear Customer,

Congratulations on purchasing your new STEINEL designer sensor-switched outdoor light and thank you for the confidence you have shown in us. You have chosen a high-quality product that has been manufactured, tested and packed with the greatest care.

Please familiarise yourself with these instructions before attempting to install the SensorLight because prolonged reliable and trouble-free operation will only be ensured if it is fitted and started properly.

We hope your new SensorLight will bring you lasting pleasure.

## Safety Warnings

- Disconnect the power supply before attempting any work on the unit.
- 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 SensorLight involves work on the mains voltage supply. This work must therefore be carried out professionally in accordance with national wiring regulations and electrical operating conditions.  
(D) -VDE 0100, (A) -ÖVE / ÖNORM E8001-1, (CH) -SEV 1000

## System Components

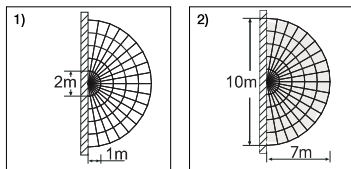
- ① Wall mount
- ② Light enclosure
- ③ Spacer for surface-mounted installation
- ④ Light diffuser
- ⑤ Reach setting
- ⑥ Time setting
- ⑦ Twilight setting
- ⑧ Programme setting
- ⑨ Manual override
- Flush-fitted installation
- Surface-mounted installation

## Principle

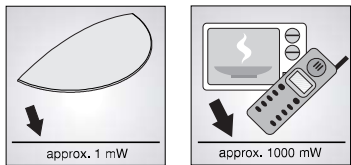
The SensorLight is an active motion detector. The integrated HF-sensor emits high-frequency electromagnetic waves (5,8 GHz) and receives their echo. Any movement by persons in the light's detection zone is noticed by the sensor as a change in echo. A microprocessor then triggers the 'switch light ON' command. Detection is possible through doors, panes of glass or thin walls.

### Detection zones for wall mounting:

- 1) Minimum reach (1 m)
- 2) Maximum reach (7 m)



**Note:** The high-frequency output of the iHF-sensor is approx. 1 mW – that's 1000 times less than the transmission power of a mobile phone or the output of a microwave oven.



**Note:** The sensor is suitable for switching light ON automatically. Weather conditions may affect the way the sensor works. Strong gusts of wind, snow, rain or hail may cause the light to come ON when it is not wanted.

## Installation

To obtain the specified reach of 7 m, the sensor should be installed at a height of approx. 2 m.

### Connecting the mains supply lead (see illustration)

The mains supply lead is a 3-core cable.  
L = phase conductor (usually black, brown or grey)  
N = neutral conductor (usually blue)  
PE = protective-earth conductor (green/yellow)

If you are in any doubt, identify the conductors using a voltage tester; then disconnect from the power supply again. Phase (L) and neutral conductor (N) are connected to the terminal block.

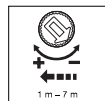
**Important:** Getting the cable connections crossed will produce a short circuit in the unit or in your fuse box. In this case, you must identify the individual conductors once again and re-connect them. A mains switch for switching the light ON and OFF can of course be fitted in the mains lead.

## Functions

The SensorLight can be put into operation as soon as it has been connected to the mains power supply and enclosure ① has been fitted. When the light is turned ON manually at the light switch, it switches OFF after 10 secs. for the calibration phase and is then activated for operation in the sensor mode. It is not necessary to actuate the light switch a second time.

### Reach setting (sensitivity) ⑤

Factory setting: 7 m.



Reach can be infinitely varied from 1 m to 7 m.

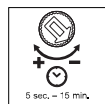
Adjustment control set to:  
+ = maximum reach 7 m  
- = minimum reach 1 m

It is recommended to select the shortest time – for setting the detection zone.

Reach is the term used to describe the diameter of the detection zone produced on the ground when mounting the SensorLight at a height of 2 m.

### Time setting (switch-off delay) ⑥

Factory setting: 5 sec.



The light's ON time can be set to any period from approx. 5 sec. and a maximum of 15 min.

Adjustment control set to:  
+ = maximum time (15 min.),  
- = minimum time (5 sec.).

It is recommended to select the shortest time – for setting the detection zone.

Any movement detected before this time elapses will re-start the timer. The shortest time setting is recommended when adjusting the detection zone and performing a functional test.

**Note:** After the light switches OFF, it takes approx. 1 sec. before it is able to start detecting movement again. The light will only switch ON in response to movement once this period has elapsed.

### Twilight setting (response threshold) ⑦

Factory setting: 2000 lux



The chosen response threshold can be infinitely varied from approx. 2 – 2000 lux.

Adjustment control set to:  
☀ = daylight operation approx. 2000 lux.  
☾ = night-time operation approx. 2 lux.

To adjust the detection zone in daylight, the control dial must be set to ☀.

### Programme setting ⑧




- 0 = Soft start / no basic lighting level ON as from the selected twilight level
- 10 = soft start + basic lighting level 10 minutes
- 30 = soft start + basic lighting level 30 minutes
- ☾ = soft start + basic lighting level all night long

### Manual override function

If a mains switch is installed in the mains supply lead, the following functions are provided in addition to simply switching light ON and OFF:

#### Manual override

##### 1) Activate manual override:

Switch OFF and ON twice. The light is set to stay ON permanently for 4 hours (blue LED lights up behind diffuser ). It then automatically returns to sensor mode (blue LED OFF).

##### 2) Deactivate manual override:

Switch OFF and ON once. Light goes out or switches to sensor mode.


#### Important:

The switch should be actuated in rapid succession (in the 0.2 – 1 sec. range).

#### What is soft light start?

The SensorLight features a soft light start function. This means that when turned ON, the light is not switched directly to maximum output but gradually builds up brightness to 100 % within the space of a second. Brightness is also gradually reduced when the light is switched OFF.

#### What is basic lighting level?

Basic lighting level provides continuous night-time illumination at approx. 10 % light output. The light only switches to maximum output of 100 % (for the time selected, see Switch-off delay ) in response to movement in the detection zone. The light then returns to basic lighting level (approx. 10 %).

**Note:** Depending on the local power grid, the LED's may flicker slightly when dimmed. This is not a product defect and no reason for complaint.

### Declaration of Conformity

This product meets:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC
- RoHS Directive 2011/65/EC
- WEEE Directive 2012/19/EC

### Functional 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 the defective parts at our own discretion. The warranty shall not cover damage to wear parts, damage or defects caused by improper treatment or 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.

#### Repair service:


Please ask your nearest service centre how to proceed for repairing faults not covered by the warranty or occurring after the warranty expires.



### Technical Specifications

Dimensions (H x W x D):	195 x 331 x 157 mm	
Material:	Light enclosure:	aluminium
	Light diffuser:	plastic
Power supply:	230 V 50/60 Hz	
Output:	12 W / 400 lm / 33.3 lm/W	
Colour temperature:	3000 kelvin (warm white)	
LED life expectancy:	50,000 hours	
Detection angle:	180° with sneak-by guard	
Detection reach:	1 – 7 m (radially)	
Twilight setting:	2 – 2000 lux	
Time setting:	5 sec. – 15 min.	
Basic lighting level:	0 or 10%, soft start	
Manual override:	selectable (4 hrs.)	
IP rating:	IP 44	
Protection class:	II	
Temperature range:	-20 °C to +40 °C	

### Troubleshooting

Malfunction	Cause	Remedy
SensorLight without power	<ul style="list-style-type: none"> <li>■ Fuse faulty, not switched ON, break in wiring</li> <li>■ Short circuit</li> </ul>	<ul style="list-style-type: none"> <li>■ New fuse, turn on power switch, check wiring with voltage tester</li> <li>■ Check connections</li> </ul>
SensorLight will not switch ON	<ul style="list-style-type: none"> <li>■ Twilight setting in night-time mode during daytime</li> <li>■ Mains power switch OFF</li> <li>■ Fuse faulty</li> <li>■ Detection zone not properly targeted</li> </ul>	<ul style="list-style-type: none"> <li>■ Reset (control dial )</li> <li>■ Switch ON</li> <li>■ Fit new fuse, check connection if necessary</li> <li>■ Re-adjust</li> </ul>
SensorLight will not switch OFF	<ul style="list-style-type: none"> <li>■ Continued movement in the detection zone</li> </ul>	<ul style="list-style-type: none"> <li>■ Check detection zone and re-adjust if necessary</li> </ul>
SensorLight will not switch OFF completely	<ul style="list-style-type: none"> <li>■ Basic lighting level selected</li> </ul>	<ul style="list-style-type: none"> <li>■ Turn programme selector dial to 0</li> </ul>
SensorLight switching ON when it should not	<ul style="list-style-type: none"> <li>■ Wind is moving trees and bushes in the detection zone</li> <li>■ Cars in the street are detected</li> </ul>	<ul style="list-style-type: none"> <li>■ Change zone</li> <li>■ Change zone</li> </ul>