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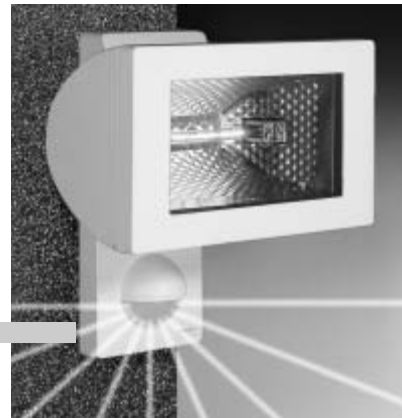
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Sensor- Halogenstrahler



(D) Bedienungsanleitung

(GB) Instructions for use

(F) Mode d'emploi

(NL) Gebruiksaanwijzing

(I) Istruzioni per l'uso

(E) Instrucciones de montaje

GB Installation instructions

Dear customer,

Thank you for the confidence that you have placed in us in purchasing your new STEINEL sensor halogen light. You have decided on a high quality product, manufactured, tested and packed with the greatest care.

Please familiarise yourself with these instructions before installation, since only correct commissioning guarantees long, reliable and trouble-free operation.

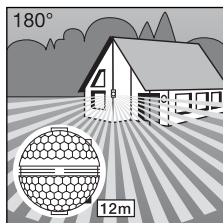
We hope you enjoy your new appliance.

Principle

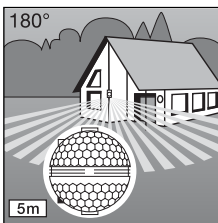
The sensor halogen light is equipped with two 120° pyro sensors which detect the invisible infrared heat emitted by moving objects (pedestrians, animals, etc.). The heat thus detected is electronically converted and therefore switches the light

on. No heat radiation is detected through obstacles, such as walls or glass and no switching therefore occurs. With the aid of the two pyro sensors, a detection angle of 180° (with an opening angle of 90°) is achieved.

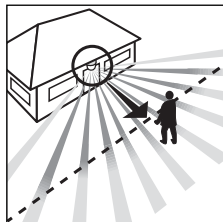
The lens is removable and can be rotated. This allows two basic reach settings of max. 12 m or 5 m.



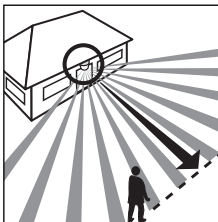
Max. reach 12 m



Max. reach 5 m



Walking direction: frontal



Walking direction: diagonal

Important: The most reliable motion detection is achieved by mounting the unit diagonally to the direction of movement and ensuring that no obstacles (such as trees or walls) obstruct the line of sight.

⚠ Safety notification

- Before undertaking any work on the unit disconnect the mains supply!
- The supply lead to be connected must not be live during assembly. Therefore, first switch off the power and check that the circuit is dead by using a voltage tester.
- The installation of these units involves connecting them to the mains supply. The work must therefore be carried out in a professional manner in accordance with the regulations involving installation and connection of electrical appliances specific to each country (IEE Wiring Regulations). If in doubt contact a qualified electrician.
- Do not mount the unit on surfaces that are normally easily inflammable.
- The halogen light must not be aligned to face the wall on which it is mounted.
- The light must be in a horizontal position ($\pm 15^\circ$).
- The light must be mounted in such a way that in all possible setting angles they are at least 1 metre from the surface at which they are directed.
- In the event that the protective glass is broken, it is imperative that a new protective glass is installed before the light is operated again.
- To avoid inflammation of the skin and eyes do not expose yourself for any length of time to a sensor halogen light being operated at 10% over the nominal voltage.
- The floodlight housing becomes very hot during operation. Only align the floodlight when the housing has cooled down.

Appliance description

- 1 Safety screw
- 2 Decorative cover
- 3 Lens (removable and rotatable to select the reach – basic setting of max. 12 m or 5 m)
- 4 Twilight setting 2–2000 lux
- 5 Time setting 10 sec.–15 min.
- 6 Housing folds up for installation and mains connection
- 7 Positioning screw mount

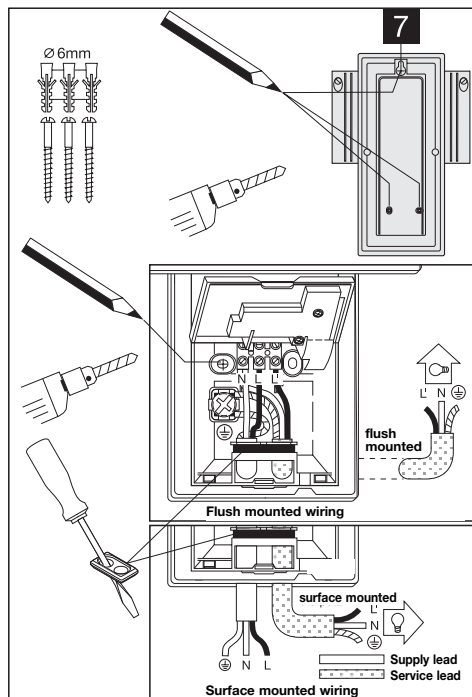
Maintenance/care

The sensor halogen light is suitable for automatic switching of lights. The unit is not suitable for special burglar alarm systems, since it lacks the sabotage protection prescribed for

this purpose. Weather can affect operation of the sensor halogen light. Strong gusts of wind, snow, rain and hail can cause switching errors, since the sudden temperature

fluctuations cannot be distinguished from heat sources. The detection lens can be cleaned with a damp cloth (without detergents) if dirty.

Installation/Wallmounting



Installation height:

In order to achieve the given reach of 5/12 m, the installation height should be approx. 2 m.

Installation steps:

1. Remove decorative cover [2].
2. Insert positioning screw, [7].
3. Fit sensor halogen light in position, [4].
4. Fold up installation housing [5].
5. Mark drilling holes and remove sensor halogen light.
6. Drill the holes and insert plugs (6 mm dia.).
7. Insert sealing plugs.
8. Wire up the supply and service leads, if required and connect.
9. Screw housing firmly into place.

a) Connection of the supply lead

The supply lead consists of a 3 phase cable:

L = phase conductor
N = neutral conductor
PE = protective-earth conductor (⊕)

If in doubt, the cable must be identified with a voltage tester. Switch off the current again. The phase (L) and neutral (N) conductors are to be connected according to the terminal assignment. The protective earth conductor (PE) must be clamped to the earth contact (⊕). A mains switch for ON and OFF switching can of course be installed in the mains lead.

Alternatively the sensor can manually be activated for the selected time by an opening switch contact in the power supply.

b) Connection for an additional consumer:

An additional consumer can be connected to the sensor halogen light. Please observe the maximum permitted output in this case (refer to technical specifications).

The current carrying conductor of the consumer is connected to the terminal marked 'L'. The neutral conductor of the consumer is clamped to the terminal marked 'N' together with the supply lead neutral conductor. The protective earth conductor is to be connected to the earth contact.

Important: if the connections are reversed, the appliance may be damaged.

Technical specifications

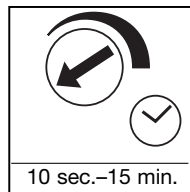
	HS 502:	HS 152 XENO:
Dimensions (H x W x D):	235 x 220 x 155 mm	235 x 160 x 140 mm
Connection:	230–240 V, 50 Hz	
Output:	max. 500 W / R7S	max. 150 W / R7S
Additional switching capacity: (ohmic load, e.g. filament bulb) (cos φ = 0.5 e.g. fluorescent lamps) (electronic ballasts, e.g. energy-saving lights)	max. 500 W max. 200 W max. 200 W (2 lamps)	max. 800 W max. 400 W max. 400 W (4 lamps)
Angle of coverage:	180° horizontal, 90° vertical	
Sensor reach:	basic setting 1: max. 12 m (factory setting) basic setting 2: max. 5 m + fine adjustment via shrouds 1-12 m	
Time setting:	10 sec.–15 min. (factory setting 10 sec.)	
Twilight setting:	2–2000 lux (factory setting: 2000 lux)	
Enclosure:	IP 44	
Safety class:	I (with earth conductor connection)	
Swivelling range of halogen light:	vertical: 40° horizontal: 30°	

Functions

After the mains connection has been made, the housing has been closed and the lens has been applied, the unit can be commis-

ioned. Two setting options are concealed behind the decorative cover [2].

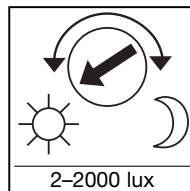
Important: perform time- and twilight setting only with the lens installed.



Switch-off delay (time setting)

The desired period of operation of the sensor halogen light can be adjusted continuously from approx. 10 sec. to a max. of 15 min. When the adjustment screw is at the left stop position, this means the shortest

time of up to 10 sec. When the adjustment screw is at the right stop position, this means the longest time of approx. 15 min. It is recommended to select the shortest time when setting the detection zone and for the functional test.

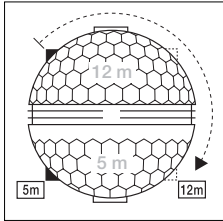


Twilight setting (response threshold)

The desired sensor response threshold can be adjusted continuously from approx. 2 lux to 2000 lux. When the adjustment screw is at the left stop position, this means twilight operation of approx. 2000 lux.

When the adjustment screw is at the right stop position, this means twilight operation of approx. 2 lux. The adjustment screw must be at the left stop position when setting the detection zone and for the functional test in daylight.

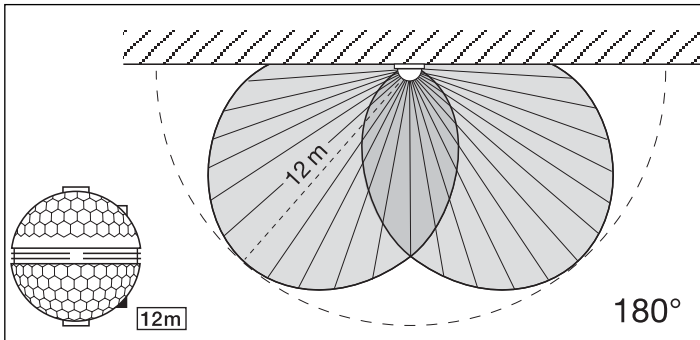
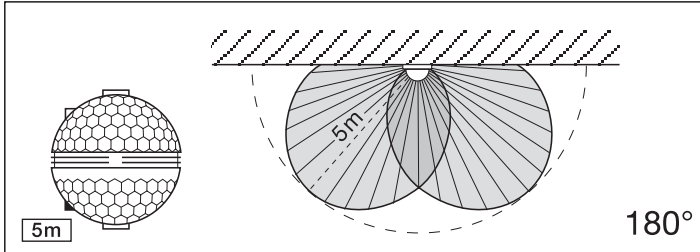
Reach – basic settings



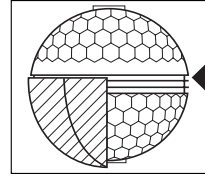
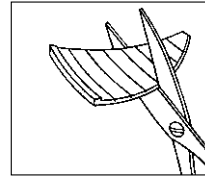
The sensor halogen light lens is divided into two detection zones. With one half, a max. reach of 5 m is achieved and with the other a max. reach of 12 m (for an installation height of approx. 2m). After the lens has been applied, a small

arrow marks the selected max. reach of 12 m or 5 m. (Arrow to left = 5 metres, arrow to right = 12 metres). The lens can be released laterally from the catch with a screwdriver and reinserted according to the desired reach.

Examples



Individual fine adjustment with shrouds



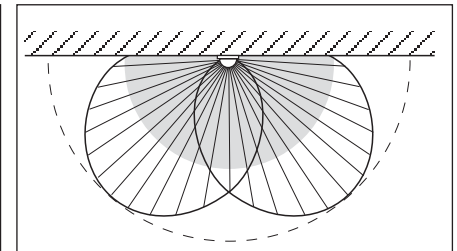
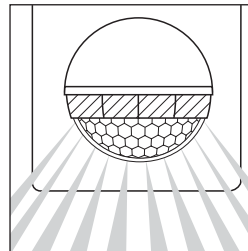
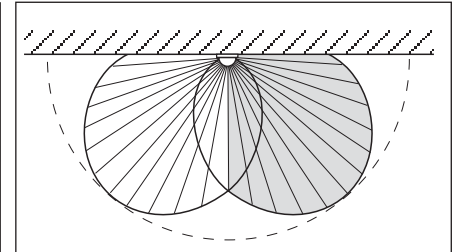
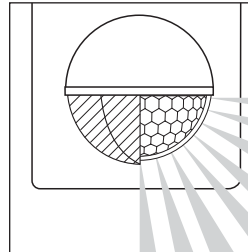
In order to exclude additional areas such as paths or neighbouring property or to monitor these specifically, the detection zone can be adjusted precisely by means of shrouds.

The shrouds can be separated along the pre-grooved divisions in the vertical or horizontal direction or cut with scissors.

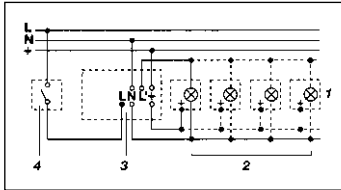
The shrouds can then be suspended in the upper notch in the middle of the lens and finally fixed in place by applying the decorative cover

(Refer below: examples concerning reduction of angle of coverage and reduction of reach.)

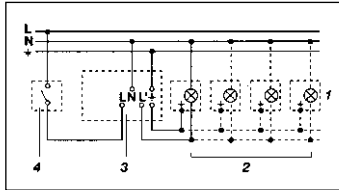
Examples



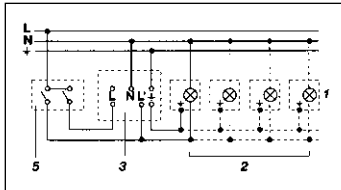
Wiring examples



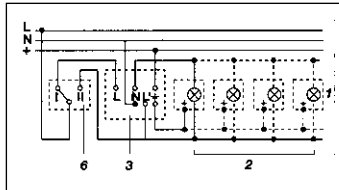
1. Fixture without neutral conductor



2. Fixture with neutral conductor



3. Connection via series switch for manual and automatic operation



4. Connection to two-way switch for permanent light and automatic operation.

Setting I: automatic operation

Setting II: manual operation for permanent light

Note: A permanent "OFF" mode is not possible, only setting I or setting III.

- 1) e.g. 1-4 x 100 W bulbs
- 2) Consumer, lighting max. 800 W (HS 152) or 500 W (HS 502)
- 3) Connection terminals
- 4) Indoor standard switch
- 5) Indoor series switch, manual, automatic
- 6) Indoor two-way switch, automatic, permanent light

Troubleshooting

Malfunction	Cause	Remedy
Sensor halogen light without power	<ul style="list-style-type: none"> ■ Fuse has blown, not switched on ■ Short circuit 	<ul style="list-style-type: none"> ■ Replace fuse, switch on power switch, check wiring with voltage tester ■ Check connections
Sensor halogen light does not switch on	<ul style="list-style-type: none"> ■ Light threshold in night-time mode during day-time operation ■ Bulb burnt out ■ Power switch OFF ■ Fuse blown ■ Detection zone not properly targeted 	<ul style="list-style-type: none"> ■ Adjust setting ■ Replace bulb ■ Switch power on ■ Replace fuse, check connection if necessary ■ Recalibrate
Sensor halogen light does not switch off	<ul style="list-style-type: none"> ■ Continued movement within the detection zone ■ Set to continuous operation by indoor multi-circuit switch 	<ul style="list-style-type: none"> ■ Check zone and readjust if necessary or apply shroud ■ Switch to automatic
Sensor halogen light keeps switching on and off	<ul style="list-style-type: none"> ■ Continued movement within the detection zone 	<ul style="list-style-type: none"> ■ Check zone and readjust if necessary or apply shroud
Sensor halogen light switches on when it should not	<ul style="list-style-type: none"> ■ Wind is moving trees and bushes in the detection zone ■ Cars in street are detected ■ Sudden temperature changes due to weather (wind, rain, snow) or air discharged from fans or open windows 	<ul style="list-style-type: none"> ■ Blank out areas with shrouds ■ Blank out areas with shrouds ■ Adjust detection zone or install at a different location