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1.100.59.097 03/2019_A Technische Änderungen vorbehalten. / Subject to technical modification without notice.

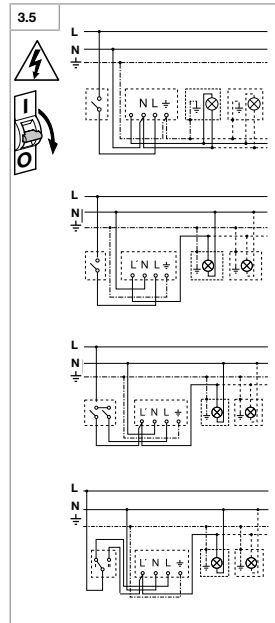
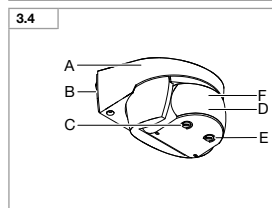
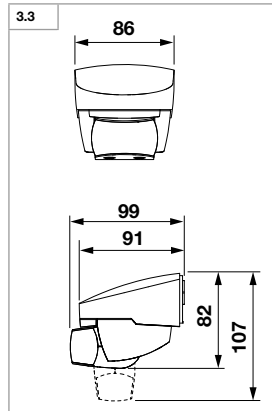
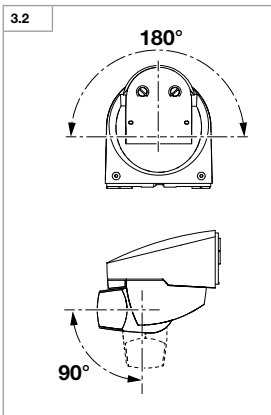
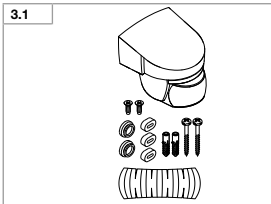
STEINEL®
Intelligent technology

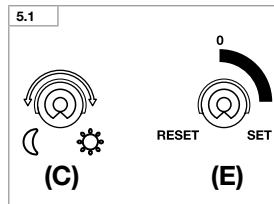
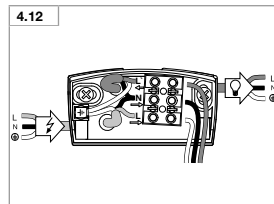
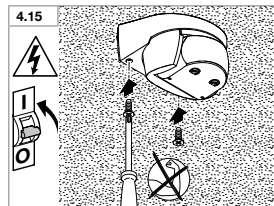
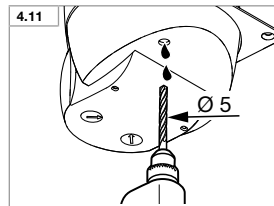
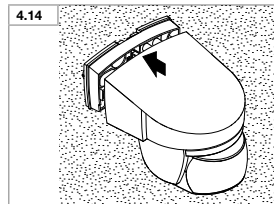
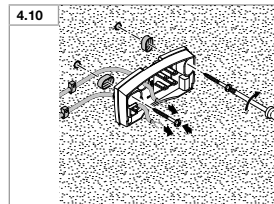
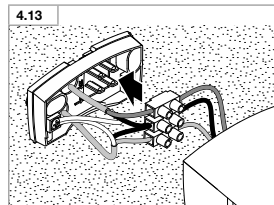
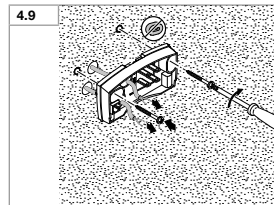
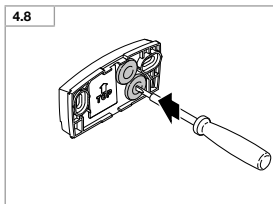
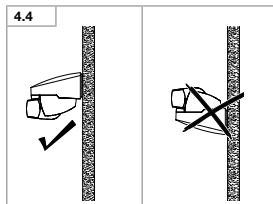
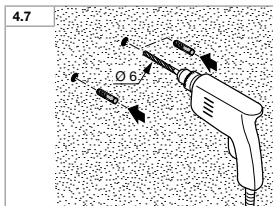
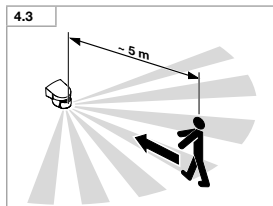
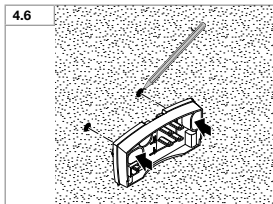
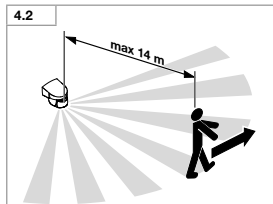
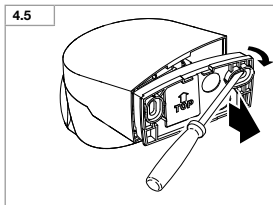
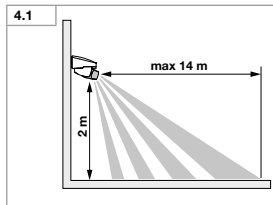


Information
IS 140-2 Z-Wave

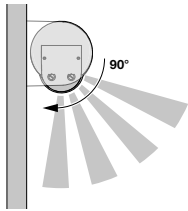
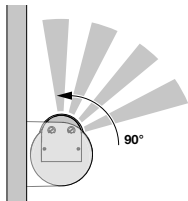
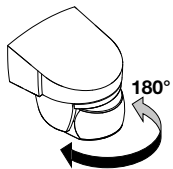


- DE 8 Textteil beachten!
- GB 16 Follow written instructions!
- FR 24 Suivre les instructions ci-après !
- NL 32 Tekstpassage in acht nemen!
- IT 40 Seguire attentamente le istruzioni!

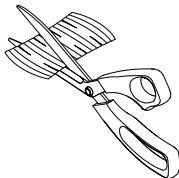




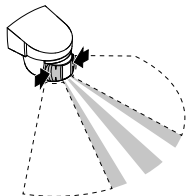
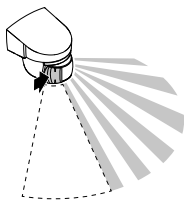
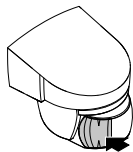
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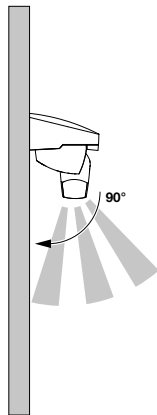
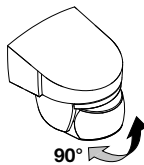
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5.5



1. About this document

Please read carefully and keep in a safe place.

- Under copyright. Reproduction either in whole or in part only with our consent.
- Subject to change in the interest of technical progress.

Symbols



Hazard warning!



Reference to other information in the document.

2. General safety precautions

Disconnect the power supply before attempting any work on the unit.

- During installation, the electric power cable being 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 correctly in accordance with applicable national wiring regulations and electrical operating conditions. (e.g. **DE** - VDE 0100, **AT** - ÖVE / ÖNORM E8001-1, **CH** - SEV 1000)
- Only use genuine replacement parts.
- Repairs may only be made by specialist workshops.

3. IS 140-2 Z-Wave

Proper use

- Infrared motion detector for indoor and outdoor surface-mounted and concealed installation
- Sensor module swivels and tilts

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. 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.

This device can be integrated into the Smart Friends system or any other Z-Wave network. Z-Wave is a wireless standard for interconnecting Z-Wave devices. The sensor parameters of the IS 140-2 motion detector can be used for wireless-based building automation.

Besides certified Z-Wave controllers, it is recommended to use the Smart Friends box. This smart-home control centre can be used for interconnecting Z-Wave products from STEINEL and the Smart Friends products from ABUS, Paulmann and Schellenberg.

Package contents (Fig. 3.1)

Sensor adjustment range (Fig. 3.2 / 3.3 / 5.6)

Product dimensions (Fig. 3.3)

Product components (Fig. 3.4)

- A** Sensor enclosure
- B** Wall mount
- C** Twilight setting control dial
- D** Sensor unit
- E** Z-Wave control dial
- F** Status LED

Reach (Fig. 4.1)

4. Electrical installation

- Switch OFF power supply (Fig. 3.5)

Connecting the mains supply lead

The mains leads consists of at least a 3-core cable:

- L** = Phase conductor (usually black or brown)
- N** = Neutral conductor (usually blue)
- PE** = Protective-earth conductor (usually green/yellow)

If you are in any doubt, identify the conductors using a voltage tester; then disconnect from the power supply again. Loop through any protective-earth conductor.

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 leads and reconnect them. An appropriate power switch for switching ON and OFF can be installed in the supply lead. The electric circuit must be protected by a 10 A circuit breaker.

Connection diagram (Fig. 3.5)

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. 4.1). 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. (Fig. 4.2 / 4.3)

Mounting procedure

- Switch OFF power supply.
- Detach enclosure (**A**) from wall mount (**B**). (Fig. 4.5)
- Mark drill holes. (Fig. 4.6)
- Drill holes and fit wall plugs. (Fig. 4.7)
- Fit sealing plug. (Fig. 4.8)
 - Concealed power supply lead (Fig. 4.9)
 - Concealed power supply lead with spacers (Fig. 4.10)
- Drill condensation water drainage hole with a 5 mm drill bit. (Fig. 4.11)
- Connect conductors. (Fig. 4.12 / 4.13)
- Fit enclosure onto wall mount. (Fig. 4.14)
- Screw in retaining screws. (Fig. 4.15)
- Switch ON power supply. (Fig. 4.15)
- Set functions → "6. Function"

6. Function

The motion detector will also work without being integrated into a Z-Wave network. In this case, the time setting is permanently set to 3 minutes. When putting the motion detector into operation, it will switch OFF after the 10-second calibration phase and is then activated for sensor mode. The motion detector can now be integrated into the Z-Wave network.


The settings can be made via the control dials or via Z-Wave network. The settings last selected will always be in effect regardless of whether they were made via the control dials or via Z-Wave network.


Factory settings


Twilight level (C): 2000 lux
Time setting: 3 min

Twilight setting (Fig. 5.1/C)

can be infinitely varied

Control dial set to  = twilight operation, approx. 2 lux

Control dial set to  = daylight operation, approx. 2000 lux

Note: To adjust the detection zone in daylight, the control dial must be set to  = daylight operation.

Reach setting/adjustment

The detection zone can be optimised to suit requirements.

Sensor unit

- Sensor unit swivels through 180°. (Fig. 5.2)
- Sensor unit tilts through 90°. (Fig. 5.5)

Adhesive shrouds (Fig. 5.3)

The film shroud can be used for masking out any number of lens

segments to limit reach as required. Inadvertent triggering is ruled out or the sensor can be targeted to watch over danger spots. (Fig. 5.4)

7. Integration into Z-Wave networks

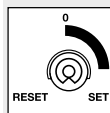
This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Inclusion	Add
Exclusion	Remove

These instructions for including and excluding STEINEL Z-Wave products have been written for the Smart Friends system. They may not always apply to other Z-Wave products. You will find further details in the description of your Z-Wave controller. (To start the motion detector's inclusion or exclusion mode, turn the device's control dial (E) to "Set" and back to "0" within 5 seconds).

Following exclusion, all configuration parameters (time, sensitivity etc.) remain intact until next inclusion and the light now works in standalone mode – as a result, Z-Wave can also be used for the light's standalone setting.

Z-Wave control dial (E)



Control dial for inclusion and exclusion as well as for returning the device to the factory setting.


Adding IS 140-2 to the Smart Friends system:

- 1 Download Smart Friends app from the app store.



- 2 In the rooms view, activate the edit mode.
- 3 Select the chosen room and press the "Add device" button.
- 4 To put the device into inclusion mode, turn the device's control dial (E) to "Set" and back to "0" within 5 seconds. Status LED (F) lights up to show that this mode is selected.
- 5 The app displays a confirmation message once inclusion has been successfully completed.

Removing IS 140-2 from the Smart Friends system:

- 1 In the rooms view, activate the edit mode.
- 2 Select the device in the chosen room and press the "delete"  button. Press delete and follow the instructions in the app.

- 3 To put the device into exclusion mode, turn the device's control dial (E) to "Set" and back to "0" within 5 seconds. The red status LED (F) lights up to show that this mode is selected.
- 4 The app displays a confirmation message once exclusion has been successfully completed.

Setting IS 140-2 with the app

- After programming, an ON/OFF scene is automatically created in the app.
- The following setting values are then automatically stored:
 - a) Twilight setting = control-dial setting
 - b) Time setting = 3 min switch-OFF delay
- The twilight and time settings can be selected to the accuracy of a lux / second in the "Scene" menu.

Resetting the IS 140-2 to factory settings:

Please only perform these steps if the main network controller is missing or not working for other reasons.

- 1 Turn the device's control dial (E) to "Set" and move it to "Reset" within 5 seconds.
- 2 Status LED (F) briefly flashes to show that the light has been reset.
- 3 The device is now no longer included in the Z-Wave system and has been reset to factory settings.

Note: the current firmware version for the light is available for downloading from z-wave.steinel.de.

8. 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).

9. EC Declaration of Conformity

Hereby, STEINEL Vertrieb GmbH declares that the radio equipment type IS 140-2 Z-Wave is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.steinel.de

10. 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.

11. Manufacturer's 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 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.

3 YEAR
MANUFACTURER'S
WARRANTY

12. Technical specifications

Dimensions H x W x D	82 x 86 x 99 mm
Mains power supply	230-240 V, 50 Hz
Output	
Incandescent / halogen lamp load	1000 W
Fluorescent lamps, electronic ballast	430 W
Fluorescent lamps, uncorrected	500 VA
Fluorescent lamps, series-corrected	500 VA
Fluorescent lamps, parallel-corrected	500 VA
Low-voltage halogen lamps	1000 VA
LED < 2 W	16 W
2 W < LED < 8 W	64 W
LED > 8 W	64 W
Capacitive load	132 µF
Sensor technology	Passive infrared
Angle of coverage	140° with sneak-by guard
Reach	max. 14 m (temperature-stabilised) via control dial
Time setting	3 min. factory setting / 1 s to 15 min with the app
Twilight setting	2-2000 lux via control dial and with the app
IP rating	IP54
Temperature range	-20°C to +50°C
Z-Wave wireless range	approx. 100 m (unobstructed line of vision)
Radio frequency band	868 MHz
Transmitter power	≤ 2.5 mW

13. 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"> ■ New fuse, turn ON power switch, check wiring 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 switch OFF ■ Fuse faulty ■ Detection zone not correctly adjusted 	<ul style="list-style-type: none"> ■ Reset ■ Replace light bulbs ■ Switch ON ■ Replace fuse, check connection if necessary ■ Readjust
Does not switch OFF	<ul style="list-style-type: none"> ■ Continued movement within the detection zone ■ Light is 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 and readjust if necessary or apply shroud ■ Check detection 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 the detection zone ■ Animals moving in the detection zone 	<ul style="list-style-type: none"> ■ Check detection zone ■ Check detection zone. Tilt sensor higher or fit shrouds to target sensor; adjust detection zone or fit shrouds
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 or open windows 	<ul style="list-style-type: none"> ■ Check detection zone ■ Check detection zone ■ Adjust detection zone or install in a different place

Malfunction	Cause	Remedy
The device cannot be added (and is not yet added)	■ Z-Wave controller too far from the device	<ul style="list-style-type: none"> ■ Reduce distance from Z-Wave controller ■ Install a Z-Wave repeater
The device cannot be added	■ It is already added	<ul style="list-style-type: none"> ■ Remove device from existing network ■ Carry out default reset
Status LED (F) flashing for 1 second every 5 seconds	■ No wireless contact with the Smart Friends box or other Z-Wave controller	<ul style="list-style-type: none"> ■ Re-start Smart Friends box or Z-Wave controller ■ Reduce distance from Z-Wave controller ■ Install a Z-Wave repeater
Status LED (F) flashing rapidly all the time	■ Critical fault	■ Briefly disconnect device from the mains power supply