STEINEL Vertrieb GmbH
Dieselstraße 80-84
33442 Herzebrock-Clarholz
Tel: +49/5245/448-188
www.steinel.de

Contact
www.steinel.de/contact

110056078 03/2020_A Technische Änderungen vorbehalten. / Subject to technical modification without notice.

STEINEL PROFESSIONAL

Application Controller

Information

HF 3360

DALI 2

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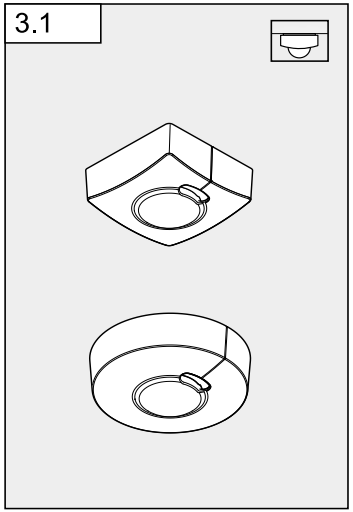
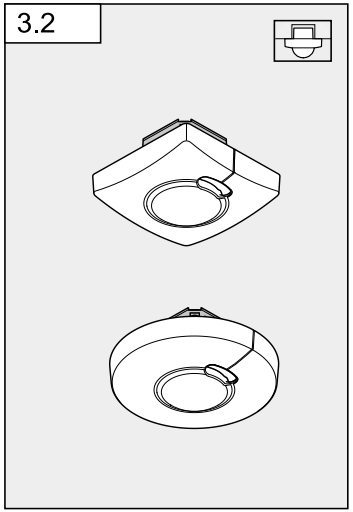
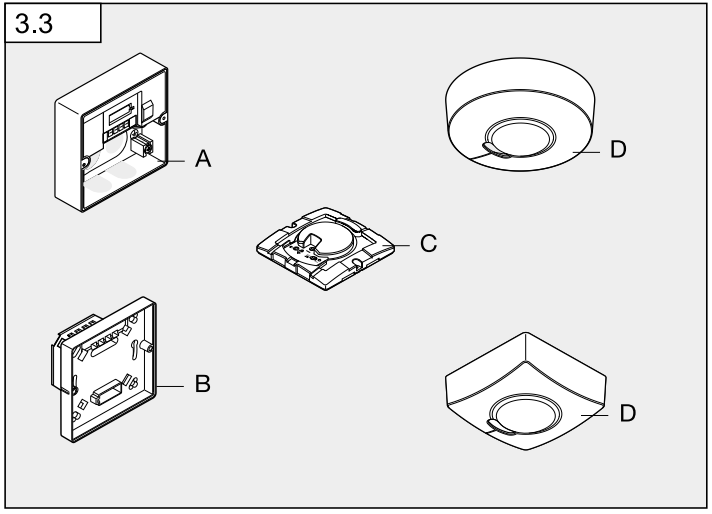
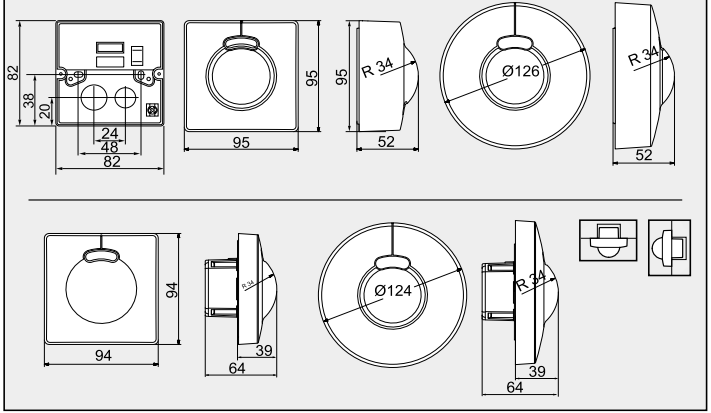






3.4

HF 3360



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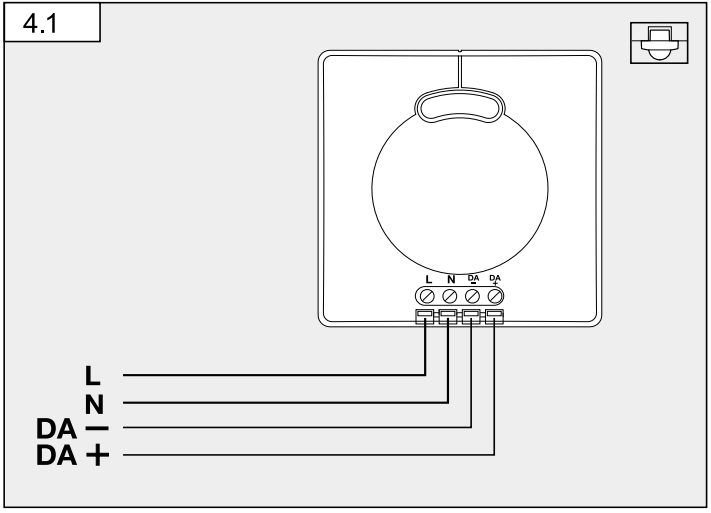

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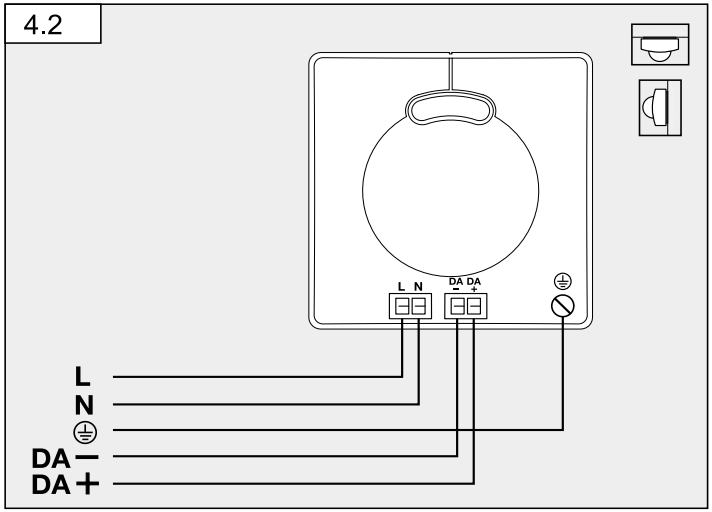

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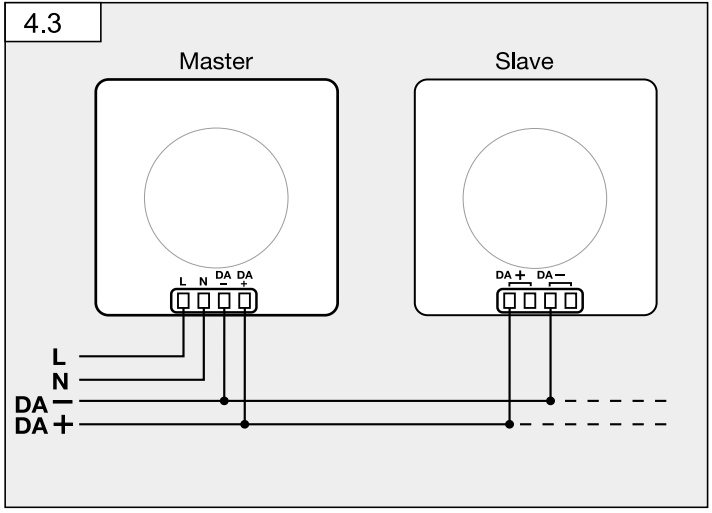

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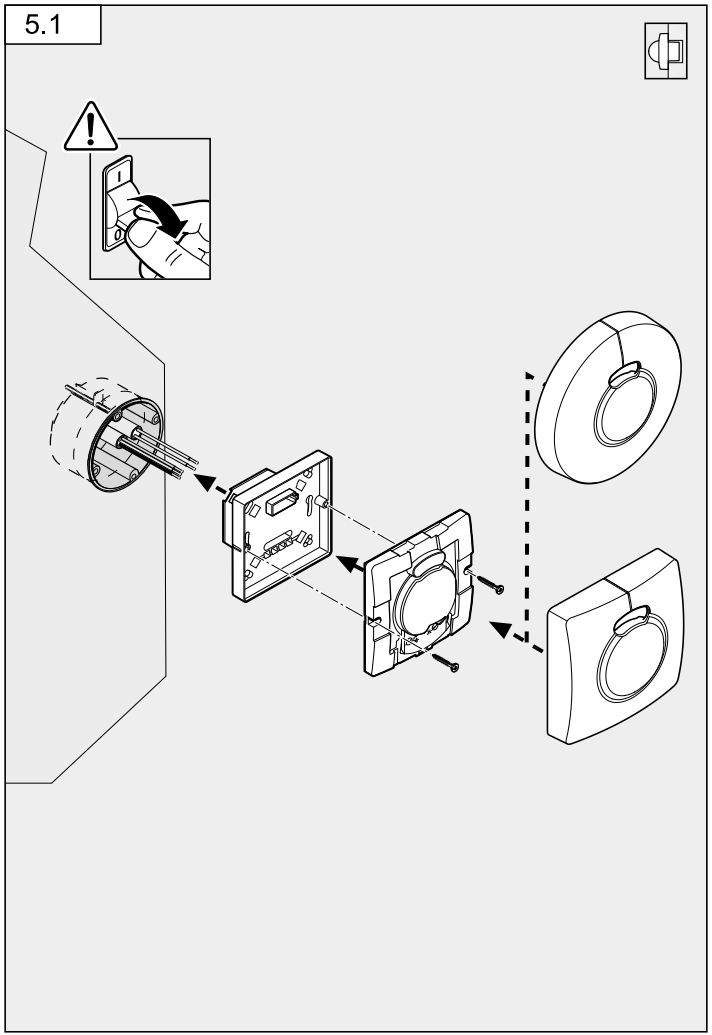

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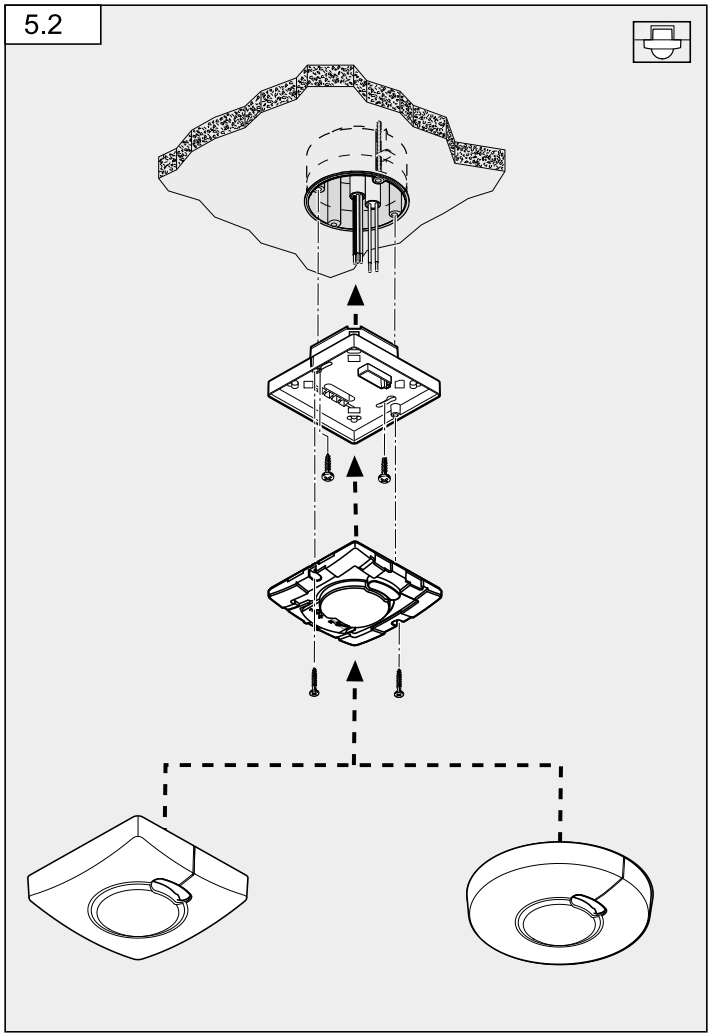
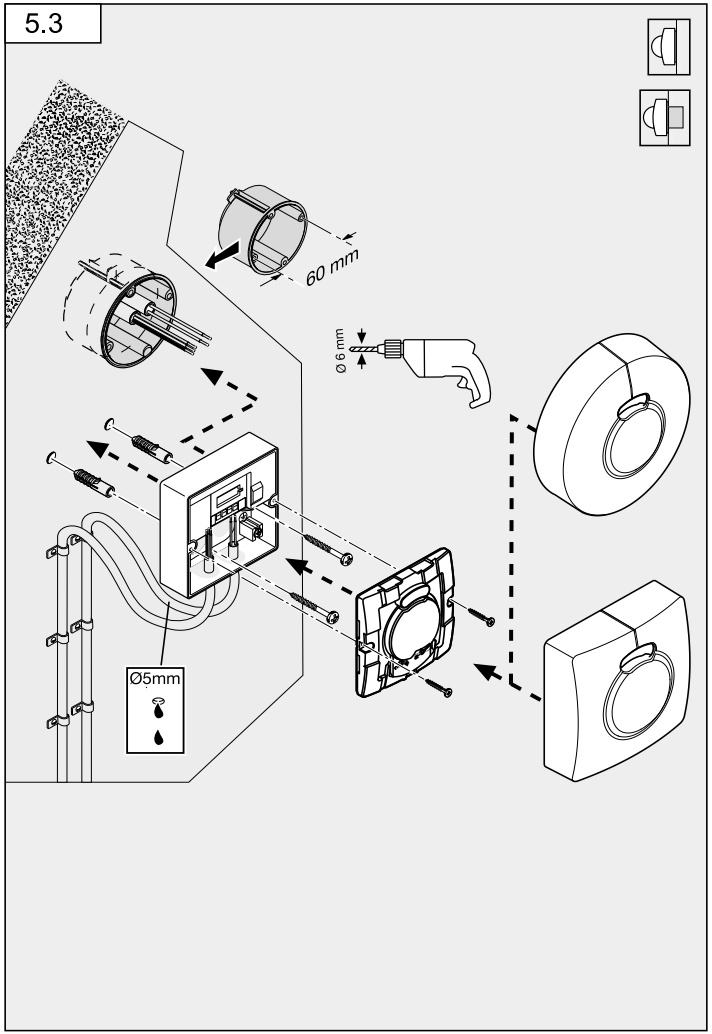
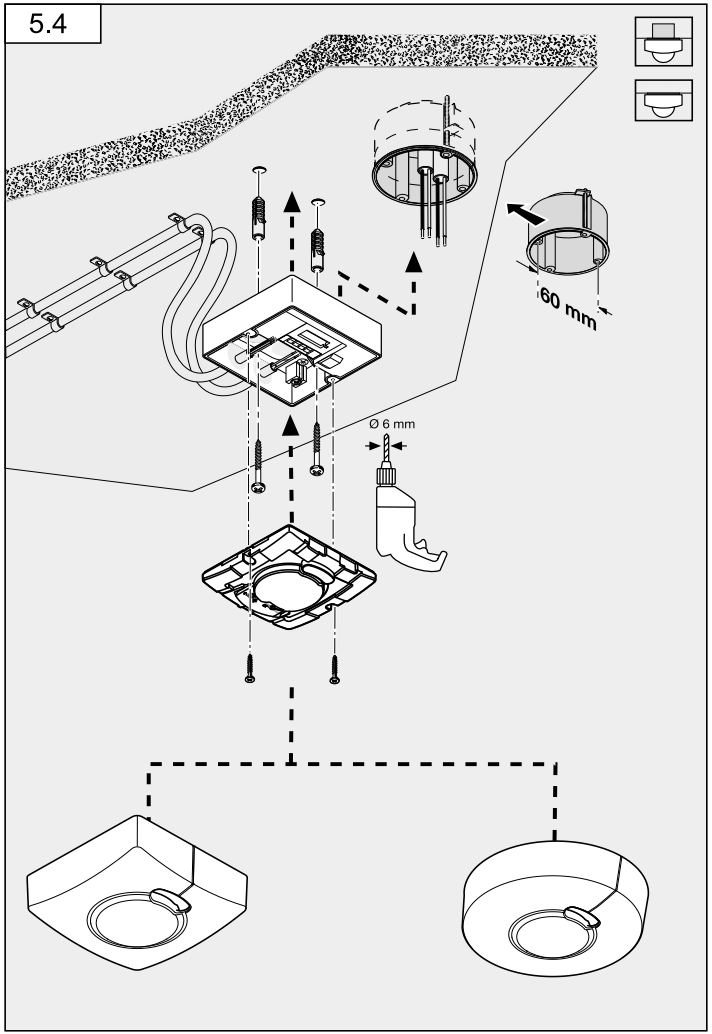



5.3
60 mm
Ø 6 mm
Ø5mm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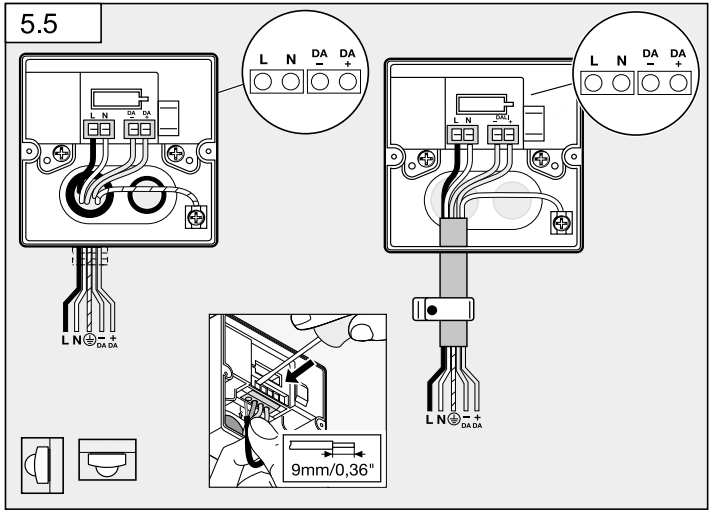
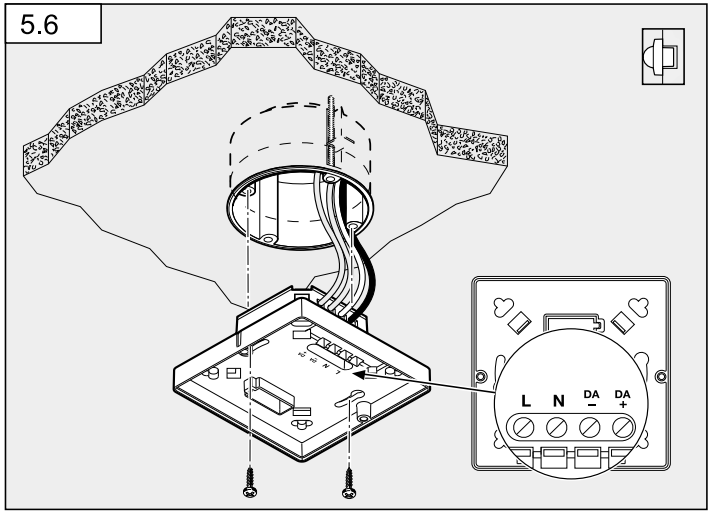
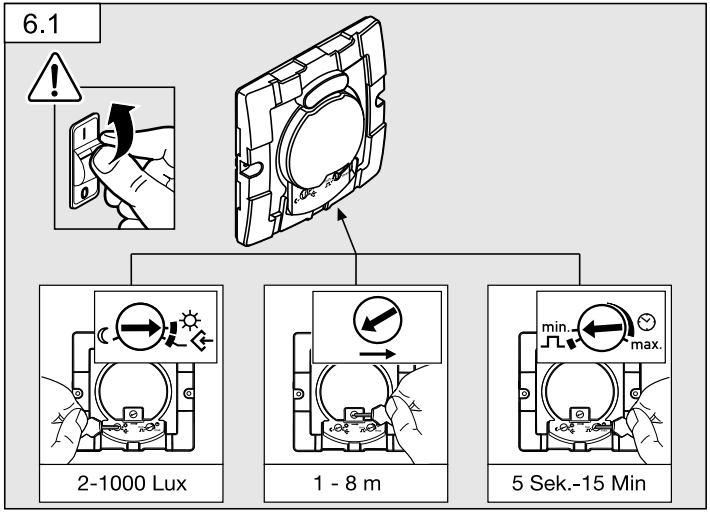
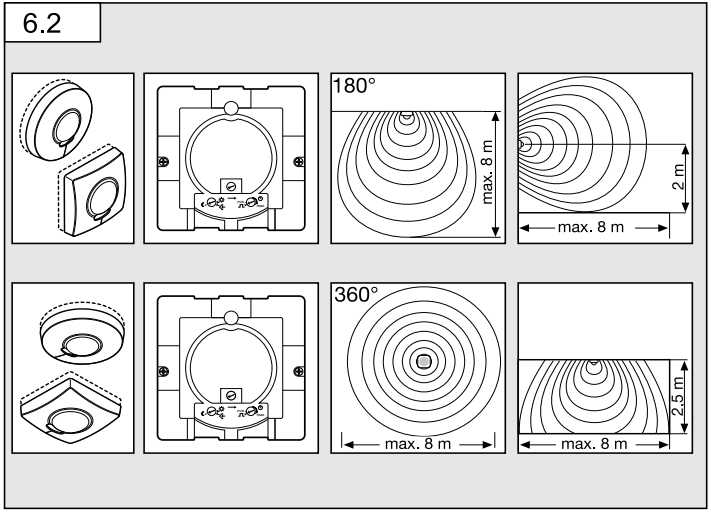
60 mm
Ø 6 mm


5.5
L N DA DA
9mm/0,36"


5.6
L N DA DA


6.1
2-1000 Lux
1 - 8 m
min.
max.
5 Sek.-15 Min


6.2
180°
max. 8 m
2 m
max. 8 m
360°
max. 8 m
2,5 m
max. 8 m

GB

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 sensor.

- 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. (**DE** - VDE 0100, **AT** - ÖVE-EN 1, **CH** - SEV 1000)

3. HF 3360

Proper use
– Sensor suitable for indoor wall and ceiling-mounting

The HF 3360 is an active motion detector. It responds to the slightest movement regardless of temperature. The integrated HF sensor emits high-frequency electromagnetic waves (5.8 GHz) and receives their echo. In response to the slightest movement in the detection zone, the change in echo is perceived by the sensor. A microprocessor then issues the switch command "switch light ON".
Detection is possible through doors, panes of glass or thin walls.

Optionally, all function settings can be made via the RC 5, RC 8 remote controls as well as the Smart Remote. **(➔ "7. Accessories")**

Package contents for concealed installation **(Fig. 3.1)**
Package contents for surface-mounted installation **(Fig. 3.2)**

Product components (Fig. 3.3)
A Load module, power supply lead, surface-mounted
B Load module, power supply lead, concealed installation
C Designer trim, round or square
D Sensor module

Product dimensions
Ceiling / wall mounting / surface-mounted and concealed wiring **(Fig. 3.4)**

4. Electrical installation

The supply lead consist of three wires:
L = phase conductor (usually black, brown or grey)
N = neutral conductor (usually blue)
PE = protective-earth conductor (green/yellow)
DA-/DA+ = connection to the DALI BUS

Wiring example (Fig. 4.1/4.2)

– Surface-mounted installation

If the rubber seal is damaged, the cable entry openings must be sealed with an M16 or M20 (at least IP54) double seal cable gland.

For mounting on the wall, a condensation water drainage hole (Ø 5 mm drill bit) is marked next to the rubber seal. This must be opened if necessary. **(Fig. 5.3)**

An optional corner wall mount is available for mounting the HF 3360 (Prod. No. 035174 white).

Master/slave (Fig. 4.3)
The HF 3360 is suitable for use in master/slave networks. In this case, the DALI sensor is the master, the DALI2 ID the slave.
The master/slave configuration permits detection of movement in larger rooms or spaces (load connected = master, no load = slave). The level of brightness prevailing in the room is only evaluated at the master. The slaves report movements detected to the master. Lighting is only switched ON and OFF by the master.

Note: for LiveLink/DALI2 sensors please pay attention to the power consumption of individual sensors so as to make sure that the maximum available current is not exceeded.

The HF 3360 DALI2 APC is certified under IEC 62386-103 as a single-master application controller. This means that its DALI2 certification only covers applications in which only DALI control gears are connected to the DALI bus. We furthermore guarantee that the presence detector is also suitable for use in multi-master applications with DALI2 input devices for extending the detection zone. For further information in this regard, please refer to the Master/Slave section. At this points we expressly point out that no DALI2 certification is available for using the product in a DALI bus system with several control devices.

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.

Installation procedure

Wall-mounting, concealed power supply lead (Fig. 5.1)
Ceiling mounting, concealed power supply lead (Fig. 5.2)
Wall-mounting, surface-mounted power supply lead (Fig. 5.3)
Ceiling mounting, surface-mounted power supply lead (Fig. 5.4)

- Switch OFF power supply.
- Detach designer trim from sensor module.
- Disconnect sensor module from the load module.
- Connect to mains power supply.
  - Surface-mounted power supply lead **(Fig. 5.5)**
  - Concealed power supply lead **(Fig. 5.6)**
- Insert fastening screw and mount load module.
- Fit sensor and load module together and screw into place.
- Switch ON power supply.
- Set functions. **(➔ "6. Function")**
- Fit designer trim.

6. Function / operation

Factory settings
Twilight level: 1000 lux
Reach adjustment: approx. 1 m
Time setting: 5 s
Main light: 80%

Constant light
Provides a constant level of brightness. The detector measures the prevailing level of daylight and activates sufficient artificial light to achieve the required level of brightness. As daylight changes, the added artificial lighting component is adjusted.

In addition to the daylight component, artificial light is also switched ON and OFF in relation to whether or not persons are present.
Constant-lighting control can be activated / deactivated via RC 8 remote control and Smart Remote.

Twilight setting (Fig. 6.1)
The chosen sensor response threshold is infinitely adjustable from approx. 2 to 1000 lux.
Control dial set to ☾ means twilight mode at approx. 2 lux.
Control dial set to ☼ means daylight operation / independent of ambient light level.

Teach mode
The control must be set to at the level of light at which you want the sensor to respond to movement from now on. The level of ambient brightness measured in this way will be saved after 10 seconds.

Dazzle guard
This product is equipped with an integrated dazzle guard. If blinded by extraneous light, this puts the sensor into a brightness-related evaluation mode for 60 s.
(→ "13. Troubleshooting").

LED function
- Normal mode: LED stays OFF
- Test mode: LED lights up on detecting movement
- Remote control: LED flashes approx. 10 times per second
- Permanently ON/OFF: LED ON

Reach setting **(Fig. 6.1)**
Continuously adjustable
- Control dial set to maximum = max. reach (approx. Ø 8 m)
- Control dial set to minimum = min. reach (approx. Ø 1 m)

Reach diagram (Fig. 6.2)

Time setting (Fig. 6.1)
The time you want the connected lamp to stay ON for is infinitely adjustable from approx. 5 sec to a maximum of 15 min. Any movement detected before this time elapses will restart the timer.

7. Accessories (optional)

User remote control RC 5 EAN 4007841 592806
Additional functions RC 5
- Light ON/OFF 4 h
- User reset
- 100 h burn in, 4 h light ON press for ≥ 5 s
- DIM1 - / DIM1 +
- Save scene 1
- Activate scene 1
- Save scene 2
- Activate scene 2

Service remote control RC 8 EAN 4007841 559410
Additional functions RC 8
- Time setting CH 1
- Test / normal mode
- Light-level setting: teach
- Night-time operation
- Daylight operation
- Teach-IN
- Reset
- Basic brightness: OFF, night, 1 = 10% ... 6 = 60%, press for ≥ 5 s

Smart Remote EAN 4007841 009151
- Replaces remote controls RC 5 and RC 8
- Control via smartphone or tablet
- Load appropriate app and connect via Bluetooth
- Identify the sensors and read parameters

Additional functions Smart Remote
- Reach: min, 1 – 100%
- Time setting: 5, 10, 15….60 s – 60 min
- Twilight setting: 2 - 1000 lux
- Basic brightness: ON, 10 – 30 min
- Basic brightness level: 10% - 50%
- Main light level: 50% - 100%
- Initial state: behaviour after applying the light ON/OFF supply voltage
- Normal sens
- Low sens
- Burn in
- Sensor

Detailed descriptions are provided in the operating instructions for the particular remote control.

8. Operation / maintenance

The sensor is suitable for switching on a light automatically. The unit is not suitable for burglar alarm systems as it is not tamperproof in the manner prescribed for such systems. The surface can be cleaned with a damp cloth (without detergents) if dirty.

9. 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.

10. Declaration of Conformity

Hereby, STEINEL Vertrieb GmbH declares that the radio equipment type HF 3360 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**

11. Manufacturer's Warranty

As purchaser, you are entitled to your statutory rights against the vendor. If these rights exist in your country, they are neither curtailed nor restricted by our Warranty Declaration. We guarantee that your STEINEL Professional sensor product will remain in perfect condition and proper working order for a period of 5 years. We guarantee that this product is free from material-, manufacturing- and design flaws. In addition, we guarantee that all electronic components and cables function in the proper manner and that all materials used and their surfaces are without defects.

Making Claims
If you wish to make a claim, please send your product complete and carriage paid with the original receipt of purchase, which must show the date of purchase and product designation, either to your retailer or contact us at **STEINEL (UK) Limited, 25 Manasty Road, Axis Park, Orton Southgate, Peterborough, PE2 6UP**, for a returns number. For this reason, we recommend that you keep your receipt of purchase in a safe place until the warranty period expires. STEINEL shall assume no liability for the costs or risks involved in returning a product.

For information on making claims under the terms of the warranty, please go to **www.steinel-professional.de/garantie**

If you have a warranty claim or would like to ask any question regarding your product, you are welcome to call us at any time on our Service Hotline **01733 366700**.

5 YEAR MANUFACTURER'S WARRANTY

CZ

12. Technical specifications

Dimensions (L × W × H)	Surface-mounted installation, round Ø	126 × 52 mm
	Surface-mounted installation, square	95 × 95 × 52 mm
	Concealed installation, round Ø	124 × 64 mm
	Concealed installation, square	94 × 94 × 64 mm
Mains power supply	220 - 240 V, 50 / 60 Hz max. 2.5 mm²	
Angle of coverage	360° with 180° angle of aperture	
Application	inside buildings	
Sensor system	5.8 GHz high frequency	
Transmitter power	approx. 1 mW	
Time setting	5 s - 15 min	
DALI output	2-core control cable, single-master controller/broadcast application	
	Guaranteed supply current	60 mA
	Maximum supply current	250 mA
User-friendly DALI function, Basic brightness	ON, OFF, 10 - 30 min, all night, 10 - 50%	
Twilight setting	2-1000 lux + teach mode	
Manual override (permanent light)	selectable (4 h)	
IP rating	Surface-mounted: IP54	Concealed: IP20
Temperature range	- 20°C to + 50°C	
Mounting height	2 - 2.8 m	

13. Troubleshooting

Malfunction	Cause	Remedy
No power at the sensor	■ Fuse faulty, not switched ON	■ Replace fuse, turn ON power switch, check lead with voltage tester
	■ Short circuit	■ Check connections
	■ Additional two-way switch OFF	■ Switch ON
	■ Fuse faulty	■ New fuse, check connections if necessary
Sensor will not switch ON	■ Bulb faulty	■ Change bulb
	■ Twilight setting set to night-time mode during daytime operation	■ Adjust setting
	■ Additional two-way switch OFF	■ Switch ON
	■ Fuse faulty	■ Fit new fuse, check connection if necessary
Sensor will not switch OFF	■ Continuous movement in the detection zone	■ Check zone
	■ Manual override activated (red LED lights up)	■ Deactivate manual override
	■ Another sensor is parallel-connected and still active	■ Wait for time setting of the other sensor to elapse
Sensor keeps switching ON/OFF	■ Curtains, plant etc. moving in the sensor's detection zone causing the sensor to respond	■ Check zone
	■ Sensor near Wi-Fi or other wireless communication source	■ Install at least 2 m away from the wireless communication source