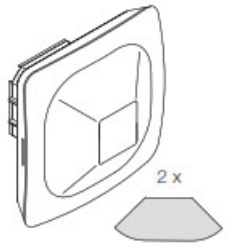
steinel HF 360-2 IP Presence Detector User Guide

HF 360-2 IP
Hallway IP
True Presence IP
Follow written instructions!

3.1 HF 360-2 IP UP



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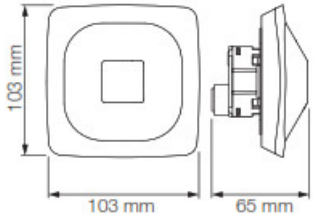

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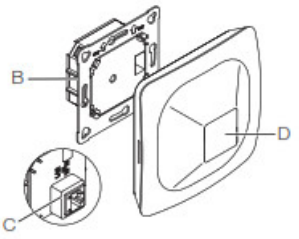
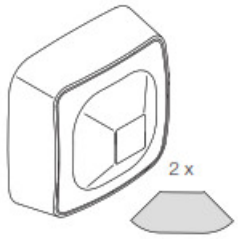
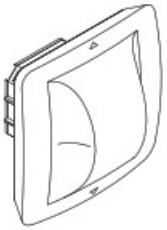


3.4 HF 360-2 IP AP



3.7 Hallway IP UP



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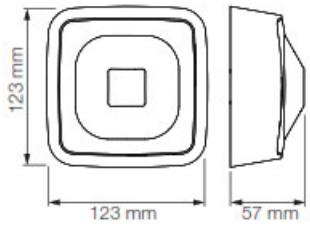

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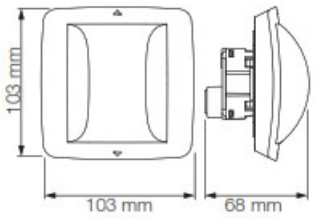

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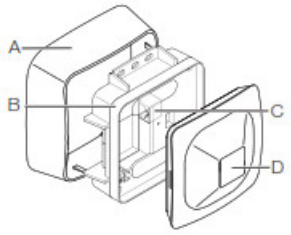

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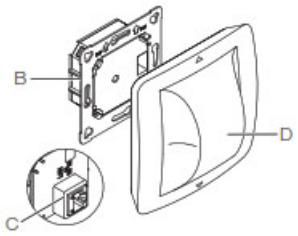
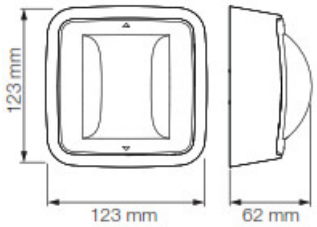


3.10 Hallway IP AP

3.13 True Presence IP UP

3.11



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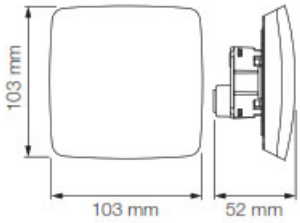

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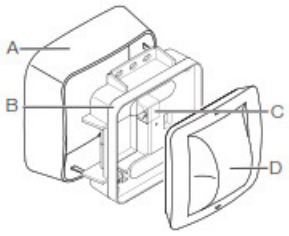

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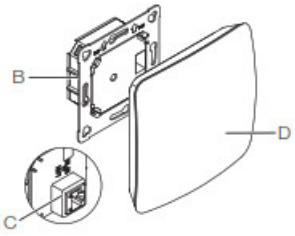
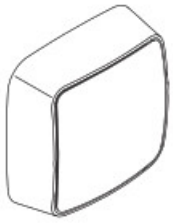


3.16 True Presence IP AP



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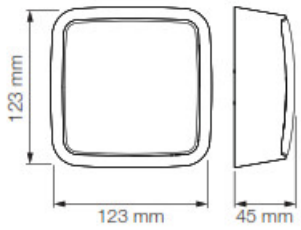

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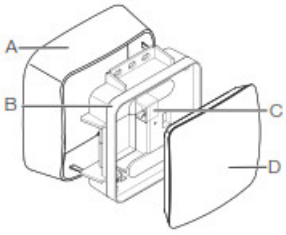
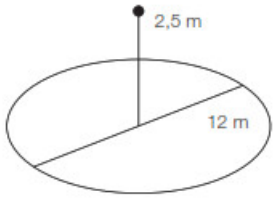
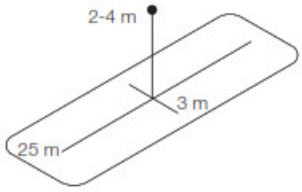


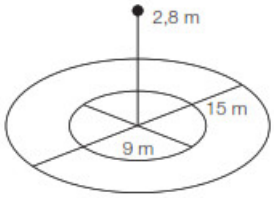
3.19 HF 360-2 IP

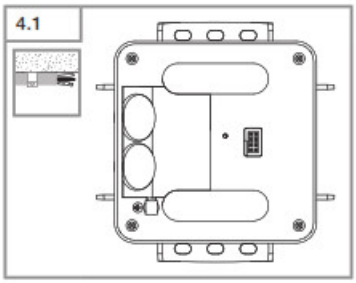


3.20 Hallway IP



3.21 True Presence IP

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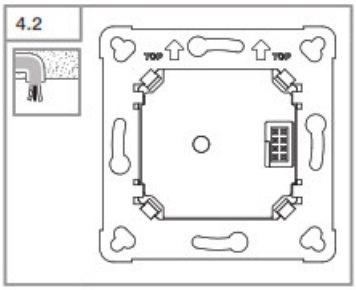
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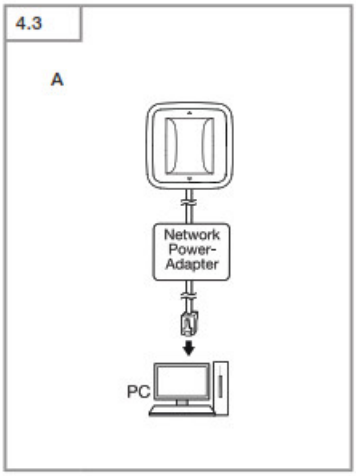
TOP
TOP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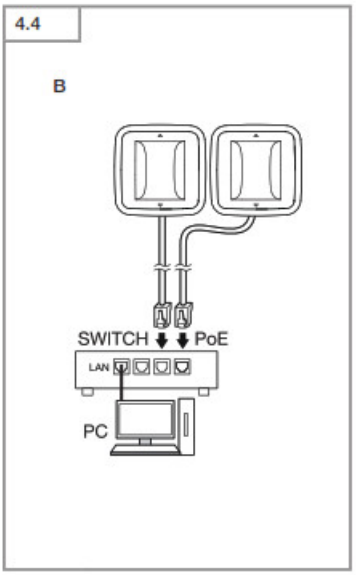
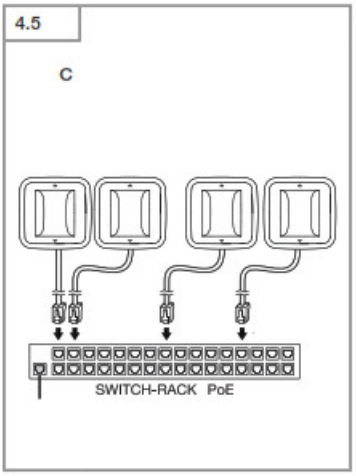
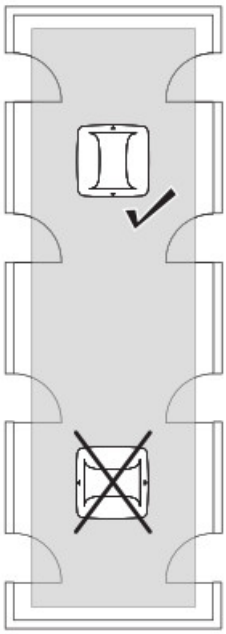
A
Network
Power-
Adapter
PC


4.4
B
SWITCH
PoE
LAN
PC


4.5
C
SWITCH-RACK PoE

5.1 Hallway IP



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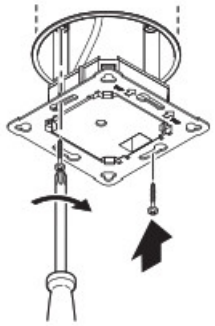

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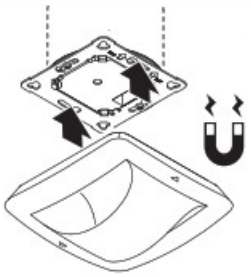

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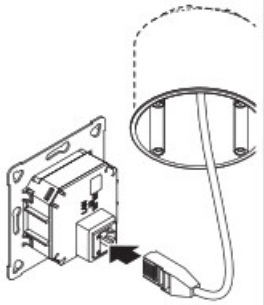

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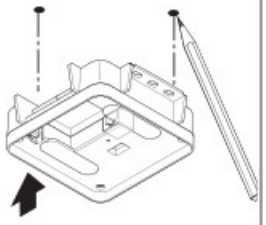

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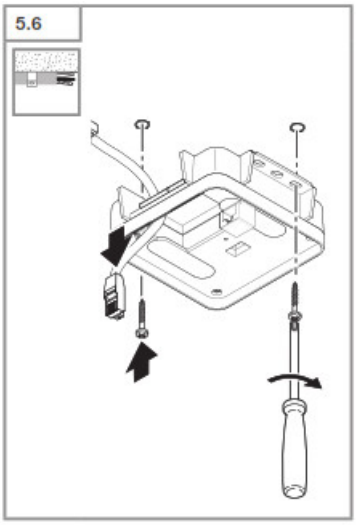

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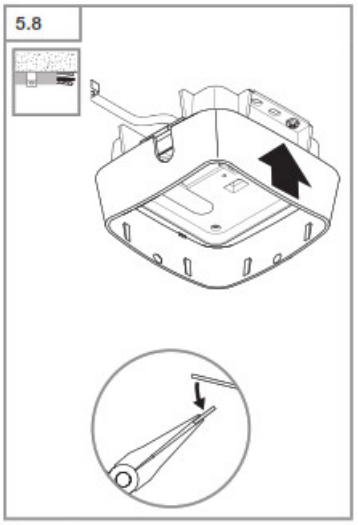

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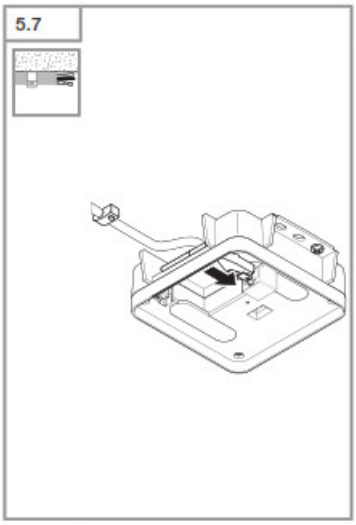

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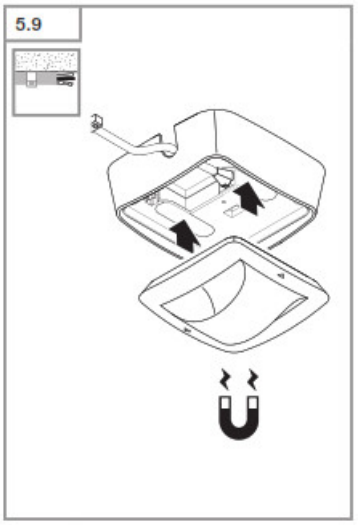

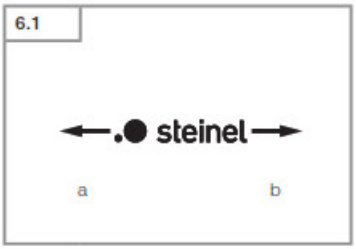

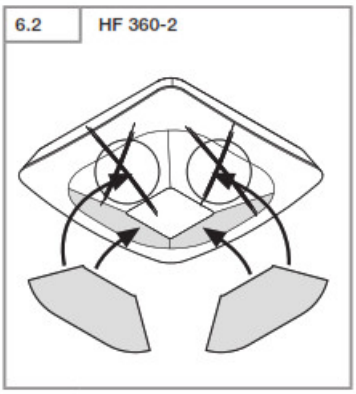

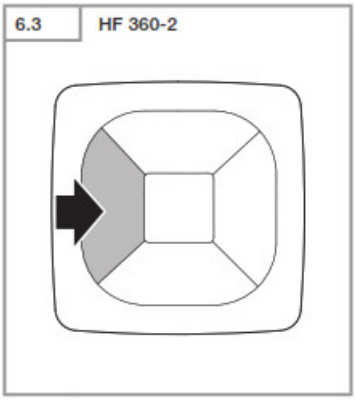

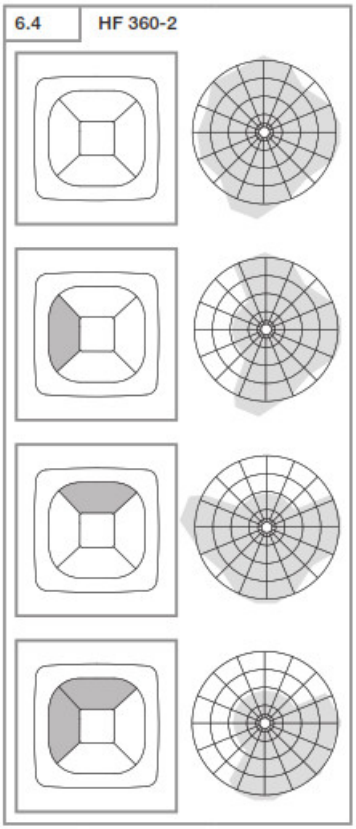

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About this document

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Symbols

Hazard warning!

Reference to other information in the document.

General safety precautions

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

- During installation, the electric power cable is 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 main 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.

HF 360-2 IP / Hallway IP /True Presence IP

Proper use
– Sensor for ceiling mounting indoors.
– Connection to an Ethernet network.
The HF 360-2 IP sensor also detects movements through thin walls. This makes it ideal for WC facilities with toilet cubicles, changing rooms, stairwells, multi-story car parks and kitchens. The sensor's detection zone can be precisely limited by using the reach setting capability on the web interface and via the app.
The Hallway IP sensor is a high-frequency sensor with a perfect detection zone for corridors. Reach can be adjusted in both directions by app via web interface and app.
The True Presence IP sensor is a high-frequency sensor. It reliably identifies human presence and absence by detecting micro-movements. The detection zone can be precisely limited via web interface and app.
This makes it ideal for use in offices and schools

For specific applications, such as cruise ships or hotels, please contact us directly so we can work together on defining the best way to integrate the sensors.
These sensors support the IP-based Rest API, Bacnet and MQTT protocols.
Sensor data is provided for this purpose and can be processed in appropriate systems.

documentation on each protocol at: **www.steinel.de**
UP: concealed version
AP: surface-mounted version
Package contents (Fig. 3.1, Fig. 3.4, Fig. 3.7, Fig. 3.10, Fig. 3.13, Fig. 3.16)
Product dimensions (Fig. 3.2, Fig. 3.5, Fig. 3.8, Fig. 3.11, Fig. 3.14, Fig. 3.17)
Product components (Fig. 3.3, Fig. 3.6, Fig. 3.9, Fig. 3.12, Fig. 3.15, Fig. 3.18)
A. Surface-mounting adapter
B. Load module
C. Connecting terminal
D. Sensor module
HF 360-2 IP detection zone (Fig. 3.19)
Hallway IP detection zone (Fig. 3.20)
True Presence IP detection zone (Fig. 3.21)

Technical specifications
– Dimensions (H × W × D) HF 360-2:
UP: 103 × 103 × 65 mm

AP: 123 × 123 × 57 mm
– Dimensions (H × W × D) Hallway:
UP: 103 × 103 × 68 mm
AP: 123 × 123 × 62 mm
– Dimensions (H × W × D)
True Presence:
UP: 103 × 103 × 52 mm
AP: 123 × 123 × 45 mm
– Power supply:
Standard PoE (IEEE 802.3 af)
Passive PoE (24-55 V) SELV
– HF 360-2 mounting height: 2-4 m
– Hallway mounting height: 2-4 m
– True Presence mounting height: 2.8-12 m
– HF 360-2 angle of coverage: 360°
– Hallway angle of coverage: 360°
– True Presence angle of coverage: 360°
– HF 360-2 reach: ø 12 m
– Hallway reach: 25 × 3 m
– True Presence reach: 9 m True Presence
(up to a mounting height of 4 m)
15 m presence
15 m movement
(adjustable with centimeter precision)
– Sensor values: Light measurement, Temperature: 0-40°C,
Relative humidity: 0-100%
– Temperature range: 0°C to +40°C
– IP rating: IP20
– Bluetooth frequency: 2.4-2.48 GHz
– Bluetooth transmission power: 5 dBm/3 mW
– HF 360/Hallway frequency: 5.8 GHz
– Transmission power: 3 dBm/2 mW
– True Presence frequency: 7.2 GHz
(response to micro-movements resulting from the vital functions)

Electrical connection

Surface-mounted connection (Fig. 4.1)
Concealed connection (Fig. 4.2)
Connection is made via the LAN cable.
Standard PoE (IEEE 802.af)
Connection examples for IP
– Connecting a single sensor to a PC via a network power adapter (Fig. 4.3).
– Connecting several sensors to a switch with POE functionality for access to PC (Fig. 4.4).
– Integrating several sensors into a network infrastructure via a switch with POE functionality (Fig. 4.5).

Installation

- 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. 3.19/3.20/3.21)
- Aim sensor in the appropriate direction.
  Hallway IP (Fig. 5.1)

Mounting procedure
Concealed mounting

- Make plug connection. (Fig. 5.2)
- Firmly screw load module into the mounting box.(Fig. 5.3)
- Fit magnetic sensor module on the frame. (Fig. 5.4)
- Make settings.
  ➔ “6. Function and settings”

Surface mounting

- Mark drill holes and drill. (Fig. 5.5)
- Screw load module into place. (Fig. 5.6)
- Make plug connection. (Fig. 5.7)
- Break out the mounting tab. (Fig. 5.8)
- Fit surface-mounting adapter. (Fig. 5.8)
- Fit magnetic sensor module. (Fig. 5.9)
- Make settings.
  ➔ “6. Function and settings”

Function and settings

Factory settings
The factory settings are activated when the presence detector is put into operation for the first time as well as after resetting by the app.
The following factory settings are provided:
Setting True Presence detection: True Presence height 2.6 m
True Presence radius 3.5 m
True Presence scenario: Scenario 7
Setting Hallway detection: Reach S, Hallway: 100 %
Reach L, Hallway: 100 %
Sensitivity S, Hallway: 100 %
Sensitivity L, Hallway: 100 %
Setting HF 360-2 detection: Reach: 100 %
Sensitivity: 100 %

Note
You will find a description of the parameters at: **www.steinel.de**

Smart Remote app
To read off the sensor values via smartphone or tablet, you must download the STEINEL Smart Remote app from your app store. You will need a Bluetooth- capable smartphone or tablet.

http://www.steinel-professional.de/SmartRemote/Android/
http://www.steinel-professional.de/SmartRemote/iOS/

LED function
Initialization: LED flashes blue
Normal mode: LED off
Bluetooth connection active:
LED lights up blue
Error: LED lights up red
Make LAN connection with the sensor

- Start web browser.

DHCP is factory-activated.

- Check which IP address the sensor has been given and use it to open the web interface.

If no DHCP server is available, the sensor is configured as followed:
– IP address: 192.168.1.200
– Sub-network mask: 192.168.1.0/24
In this case, the computer must be set to the same sub-network (192.168.1.0/24).
Instead of using the IP address, the sensor can also be accessed via the hostname. The standard hostname is: “steinel_” + last 6 characters of the MAC address.
Example:
MAC address is CC:BD:35:12:34:56, the hostname is: steinel_123456
You will find the relevant MAC address on the load module.
A customized network configuration can be set up via the web interface: User code: updwd123
Administrator code: adm123
Setting Hallway IP detection
Reach can be set separately for both directions via the Smart Remote app The Steinel logo on the sensor indicates the direction. (Fig. 6.1)
a. The reach is shown by “S” points to the direction in which the S in the Steinel logo points.
b. The reach shown by “L” points to the direction in which the L in the Steinel logo points.

- Setting reach via:

– Smart Remote app
– Web interface
– IP interface

Setting HF 360-2 IP detection
The reach can be set digitally or manually.

- Setting reach via:
  – Smart Remote app
  – Web interface
  – IP interface
- Adjust the reach via shroud foils. (Fig. 6.2/6.3/6.4)

Setting True Presence IP detection

- Setting reach via:
  – Smart Remote app
  – Web interface
  – IP interface

First time of using True Presence
During initial commissioning, the presence detector creates a room image.
The room must be free of movement for 2 to 2.5 minutes for this.
The process is completed when the white LED goes out.

Setting True Presence detection
The reach can be set via the mounting height, radius, and scenario parameters.
Scenario 9: Small office, quiet workplace
– This scenario features maximum sensitivity. To prevent undesired switching, it should be used for small areas.
Scenario 8: Large office, quiet workplace
– As scenario 9, but with a slightly reduced sensitivity. Also suitable for large areas.
Scenario 7: Large office, large entrance area
– As scenario 8, but with a further reduced sensitivity.
Scenario 6: Hotel room, room with persons sleeping
– This scenario also provides maximum sensitivity. In addition, signal processing has been optimized to reliably detect the presence of persons sleeping.
– Scenario 5: Hotel room, room with persons sleeping
– As scenario 6, but with a further reduced sensitivity.
Scenario 4: Noisy workspace, light industry, hallways
– The sensor can be triggered by vibrations. In scenarios 7-9, this may lead to longer stay-ON times. Scenario 4 is more robust in the way it works.
Scenario 3: Noisy workspace, light industry, hallways
– As scenario 4, but with a further reduced sensitivity.
Scenario 2: Very noisy environments, heavy industry
– This scenario should be used if there are larger vibrations or if there are sources of electrical interference.
The True Presence function is not available, the sensor functions as a conventional presence detector.
Scenario 1: Very noisy environments, heavy industry
– As scenario 2, but with a further reduced sensitivity.

Maintenance and care

The product requires no maintenance.
The sensor can be cleaned with a damp cloth (without detergents) if dirty.

Troubleshooting

No connection with the sensor.
– Break-in a network cable or network cable not connected.

- Check cabling.

  – No PoE injector installed, or the network switch being used does not support PoE.
- Check PoE supply.

  – IP address incorrectly configured.
- Check network settings.
- It may be necessary to reset via the Smart Remote app and re-connect with the standard configuration.

  – Firewall preventing communication.
- Check firewall settings.

Sensor sending a motion detection signal when it should not.

– There is interference, e.g. fan, air-conditioning system or other moving parts, in the detection zone

- Adjust detection zone or fit shrouds, increase distance.

  – Animals are moving in the detection zone.
- Adjust zone or fit shrouds.

  – Persons are being detected in adjacent rooms through thin walls.
- Reduce sensor reach.

  – Wind is moving paper or plants in the detection zone.
- Change detection zone.

  – Sensor near Wi-Fi or another wireless communication source.
- Install at least 2 m away from the wireless communication source.

Sensor not responding to move quickly enough.
– Distance from sensor too far.

- Install additional sensors.
- Optimize sensor positioning.

  – Reach setting insufficient
- Adjust reach.

Temperature level inexact.
– Calibration required.

- Enter correction factor via sensor settings.

  Sensor not connecting with the app.

  – App or smartphone system crash.
- Restart the mobile terminal device.

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.

Conformity

STEINEL Vertrieb GmbH hereby declares that the HF 360-2 IP / Hallway IP / True Presence IP der Richtlinie 2014/53/ radio equipment type conforms to Directive 2014/53/EU. The full wording of the EU Declaration of Conformity is available for downloading from the following Internet address: **www.steinel.de**

Manufacturer's Warranty

As a 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 the 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 o ask any question regarding your product, you are welcome to call us at any time on our Service Hotline 01733 366700.

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YEAR
MANUFACTURER'S WARRANTY

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110086995 01/2022
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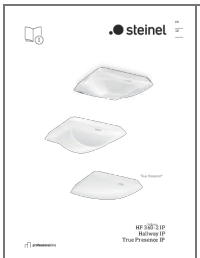
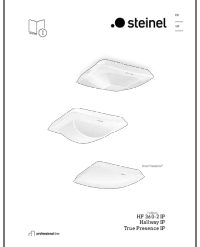
Documents / Resources

	steinel HF 360-2 IP Presence Detector [pdf] User Guide HF 360-2 IP, Hallway IP, True Presence IP, Presence Detector
	steinel HF 360-2 IP Presence Detector [pdf] Instructions HF 360-2 IP, Hallway IP, True Presence IP, HF 360-2 IP Presence Detector, Presence Detector

References

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Manuals+,