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IR Quattro MICRO
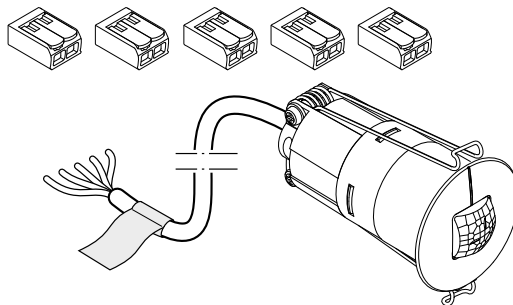
3.1

3.2

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2,8 m

~ 6 m

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~ 6 m

~ 4 m

5.3

> 120

Ø 35

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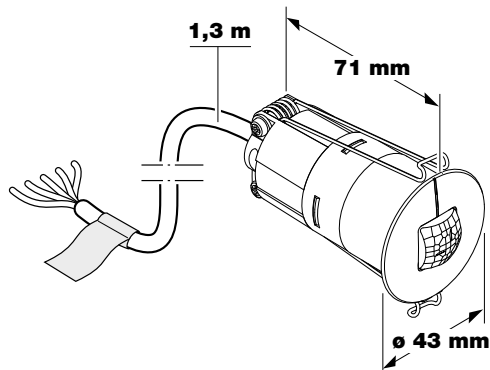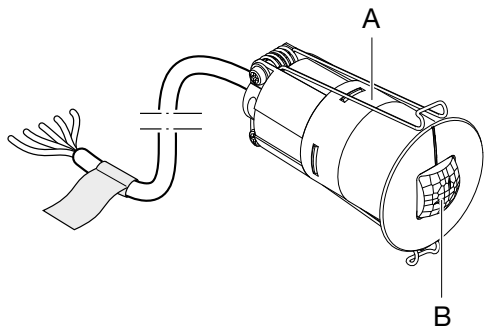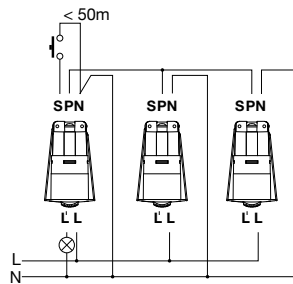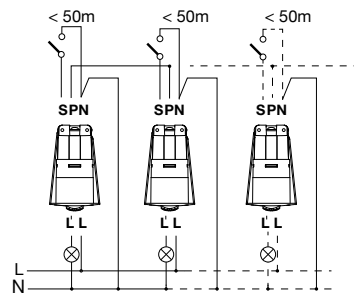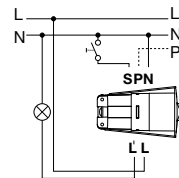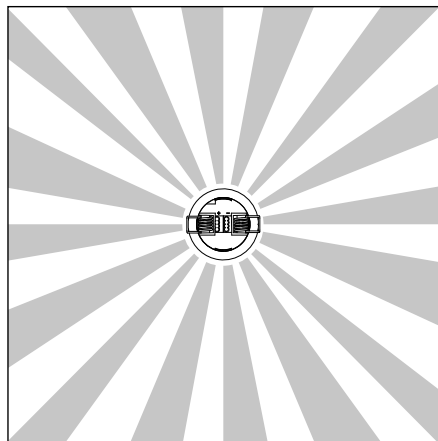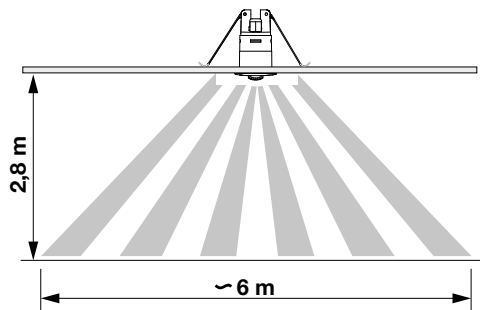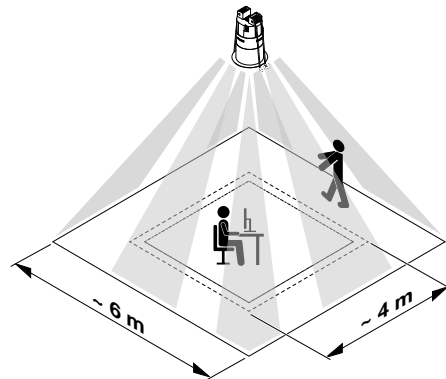
1. About this document

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 professionally in accordance with national wiring regulations and electrical operating conditions.
• Only use genuine replacement parts.
• Repairs may only be made by specialist workshops.
• **Note:** The external button cable **S** is not intended for use as a neutral conductor connection for loads.

3. IR Quattro MICRO COM1

Proper use
– Presence detector suitable for indoor ceiling mounting.
– Built-in depth at least 120 mm.

Cable length between sensor and button < 50 m.

All function settings can be made via the optional remote controls RC8, RC5 or the Smart Remote.
(→ "7. Accessories")

Package contents **(Fig. 3.1)**

Connecting terminal **(Fig. 3.1)**

Product dimensions **(Fig. 3.2)**

Product components **(Fig. 3.3)**
A Sensor module
B Micro lens

4. Electrical connection

• Switch OFF power supply **(Fig. 4.1)**

Terminal labelling:
L = black
L' = brown
N = blue
S = grey
P = black/red

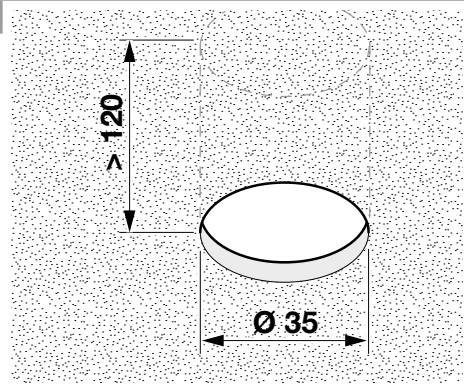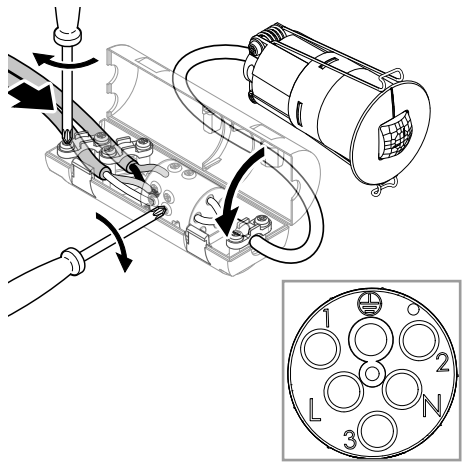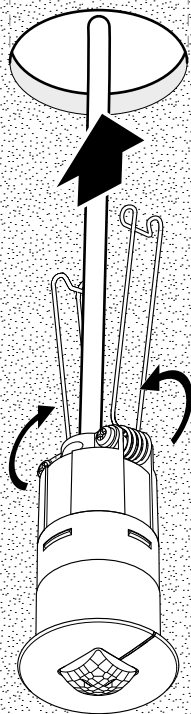The mains supply lead is a multiple-core cable:
L = phase conductor (usually black or brown)
N = neutral conductor (usually blue)
PE = protective-earth conductor (usually green/yellow)
P = for connecting several motion detectors

L' = switched phase conductor (usually black, brown or grey)
S = switch/button

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 cables and re-connect them. An appropriate power switch for switching ON and OFF can be installed in the supply lead.

Connecting the mains power supply lead **(Fig. 4.1)**

Note on parallel connection:
When using several sensor switches, they must be connected to the same phase. As many as 10 sensors can be connected in parallel. The sensors must be no more than 25 m apart.

Master/Master COM1 (Fig. 4.1)
A parallel-connected configuration also permits the use of several masters. In this case, each master operates the lighting group in accordance with the level of brightness it measures. Delay times and light-level thresholds are selected at each master as required. The switched load is spread among the individual masters.

Presence is still detected collectively by all detectors.

The presence output can be picked off from any master.

Master/Slave (Fig. 4.1)
The master/slave configuration permits detection of movement in larger rooms (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 switched ON and OFF via the master only.

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. 5.1 / 5.2)**

Mounting procedure
• Switch off power supply. **(Fig. 4.1)**
• In the ceiling, drill a hole of max. Ø 35 mm. **(Fig. 5.3)**
• Connect to the mains power supply. **(Fig. 5.4)**
  → "7. Accessories (optional)"
• Fit sensor module. **(Fig. 5.4)**
• Switch ON power supply. **(Fig. 5.4)**
• Make settings.
  → "6. Function/Settings"

6. 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 via the remote control.

The following factory settings are provided:

Twilight setting	SUN setting, daytime operation
Time setting	IQ mode
Fully automatic / semi-automatic	Fully automatic mode
Test mode	OFF
Load ON/OFF in init	ON
Button/switch	Switch
SOUND / SOUND OFF	SOUND OFF

Twilight setting
The chosen response threshold can be set from approx. 10 to 1000 lux. Up to 2 lux can be selected via the Teach-IN function.

Daytime operation
When movement is detected, the sensor switches the load ON irrespective of ambient brightness.

Teach-IN
The Teach-IN function is to be selected 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. The load is deactivated during this period.

Time setting
Depending on the remote control, the chosen stay-ON time can be set to any period from min. 5 seconds to max. 60 minutes. When the response threshold is exceeded, the sensor switches OFF after the stay-ON time expires.

Operating mode

Semi-automatic mode
The light now only switches OFF automatically. Light is switched ON manually. Light must be requested using the button and stays ON for the time set.

Fully automatic mode
The light automatically switches ON and OFF in relation to light level when someone is present. Light can be switched ON and OFF manually at any time. This temporarily interrupts the automatic switching function.

Presentation mode
If input **S** is used in fully automatic mode with load activated, the sensor will activate presentation mode. The load remains switched OFF until movement is detected. As soon as movement is no longer being detected and the stay-ON time has elapsed, the sensor returns to normal sensor mode. This mode can also be activated by pressing the "4 h OFF" button on the remote control (for 5 seconds). At the same time, the blue LED stops flashing and lights up continuously.

Test mode
Test mode has priority over all other settings and is used for verifying proper working order as well as for testing the detection zone. Irrespective of the ambient light level, the presence detector activates the light to stay ON for approx. 5 s in response to movement in the room (blue LED flashes on detecting movement). All user-selected settings apply in normal mode. After 10 minutes, the sensor automatically switches to normal mode.

Initial state
Defines the behaviour after applying the supply voltage. Load output ON or OFF.

Button/switch input
Tells the sensor how to interpret incoming signal **S**. Assigning external buttons/switches allows you to operate the detector as a semi-automatic unit and override it manually at any time.
SOUND or SOUND/OFF describes the behaviour after actuating the button/switch. In the ON-OFF setting, the light can be switched ON and OFF manually at any time. In the SOUND setting, light can no longer be switched OFF manually. The stay-ON time starts from the beginning again each time the switch is pressed.

IQ mode
The stay-ON time is self-learning and adjusts dynamically to user behaviour. The optimum time cycle is determined by means of a learning algorithm. The shortest time is 5 minutes, the longest time 20 minutes.

Functions, RC 5
– Light ON/OFF 4 h
– Reset
– 100 h burn in
– Presentation mode

Functions, RC 8
– Time setting CH1
– Test / normal mode
– Twilight setting
– Night-time operation
– Daylight operation
– Teach-IN
– Automatic / manual mode
– Reset
– IQ mode

Smart Remote
– Control via smartphone or tablet
– Replaces all remote controls
– Load appropriate app and connect via Bluetooth
– Bidirectional communication is supported

Time setting: 5 s - 60 min, IQ

Twilight setting: Teach, 2-1000 lux

Initial state: OFF - ON

Operating mode: semi-automatic and fully automatic

External input: switch / button

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

LED function

Blue LED
Initialisation: LED flashes 1× per second.
Normal mode: LED stays OFF.
Test mode: LED lights up on detecting movement.
Remote control: LED flashes 1× per second.

Red LED
Activating semi-automatic mode: LED ON for approx. 1 s
Overheating: LED flashes with a flash duration of 1 s every 15 s

7. Accessories (optional)

– User remote control RC5
   EAN 4007841 592806
– Service remote control RC8
   EAN 4007841 559410
– Smart Remote
   EAN 4007841 009151
– Cable connector **(Fig. 5.4)**
   EAN 4007841 065683

8. Maintenance / care

The product requires no maintenance. The detector lens may be cleaned with a damp cloth if it gets dirty (do not use cleaning agents).

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. 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

11. Technical specifications

Dimensions Ø × D	43 × 75 mm
Supply voltage	220-240 V / 50 / 60 Hz
Sensor system	Passive infrared (IR)
Output - Stand by	< 0.3 W
Reach	4 × 4 m presence, radial, 6 × 6 m tangential / 2.8 m height
Angle of coverage	360°
Output	Incandescent / halogen lamp load 1000 W Fluorescent-lamp electronic ballasts 500 W Fluorescent lamps, uncorrected 400 VA Fluorescent lamps, series-corrected 400 VA Fluorescent lamps, parallel-corrected 400 VA Low-voltage halogen lamps 1000 VA LED < 2 W 100 W 2 W < LED < 8 W 300 W LED > 8 W 600 W Capacitive load 176 µF
Minimum load	100 mA
Twilight setting	2-1000 lux, ∞/daylight
Time setting	5 s to 60 min
Mounting height	2 - 5 m
IP rating	IP65
Temperature range	-25°C to +55°C

12. Troubleshooting

Malfunction	Cause	Remedy
Light does not switch ON	■ No supply voltage ■ Lux setting too low ■ No movement detection	■ Check supply voltage ■ Slowly increase lux setting until light switches ON ■ Ensure unobstructed sensor vision ■ Check detection zone
Lights do not switch OFF	■ Lux setting too high ■ Stay-ON time running out ■ Interfering heat sources: e.g. fan heater, open doors and windows, pets, light bulb/halogen floodlight, moving objects ■ Position Wi-Fi device very close to the sensor	■ Reduce lux setting ■ Wait until stay-ON time elapses; reduce stay-ON time if necessary ■ Check detection zone ■ Increase distance between Wi-Fi device and sensor >3m
Sensor switches OFF despite persons being present	■ Stay-ON time too short ■ Light-level threshold too low	■ Increase stay-ON time ■ Change twilight setting
Sensor does not switch OFF quickly enough	■ Stay-ON time too long	■ Reduce stay-ON time
Sensor does not switch ON quickly enough when approached from the front	■ Reach is reduced when approached from the front	■ Install additional sensors ■ Reduce distance between two sensors
Sensor does not switch ON when persons are present despite it being dark	■ Lux setting too low ■ Semi-automatic mode activate ■ 4 hours OFF activate	■ Increase light-level threshold ■ Activate fully automatic mode or switch light ON at button ■ Deactivate 4 hours OFF
Red LED flashing	■ Overheating ■ Overloaded	■ Allow to cool down for 1 hour ■ Reduce load

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1. À propos de ce document

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– Sous réserve de modifications techniques.

Explication des symboles

⚠ Attention danger !

▤ Renvoi à des passages dans le document.

2. Consignes de sécurité générales

⚠ **Avant toute intervention sur l'appareil, couper l'alimentation électrique !**

• Pendant le montage, les conducteurs à raccorder doivent être hors tension. Il faut donc d'abord couper l'alimentation électrique et s'assurer de l'absence de courant à l'aide d'un testeur de tension.
• L'installation du détecteur implique une intervention sur le réseau électrique et doit donc être effectuée correctement et conformément à la norme NF C-15100.
• Utiliser uniquement des pièces de rechange d'origine.
• Les réparations ne doivent être effectuées que par des ateliers spécialisés.

• **Remarque :** la ligne S du bouton-poussoir externe n'est pas destinée à servir de raccord du neutre pour les consommateurs.

3. IR Quattro MICRO COM1

Utilisation conforme aux prescriptions
– Le détecteur de présence n'est destiné qu'à un montage au plafond à l'intérieur.
– Profondeur d'encastrement min. 120 mm.

Longueur de câble entre détecteur et bouton-poussoir < 50 m.

Tous les réglages du fonctionnement peuvent être effectués par le biais des télécommandes RC 8, RC 5 disponibles en option ou de la télécommande Smart Remote. (➜ « 7. Accessoires »)

Contenu de la livraison **(fig. 3.1)**
Domino **(fig. 3.1)**
Dimensions du produit **(fig. 3.2)**
Vue d'ensemble de l'appareil **(fig. 3.3)**
A Module de détection
B Microlentille

4. Branchement électrique

• Couper l'alimentation électrique **(fig. 4.1)**

Inscription sur les bornes :
L = noir
L' = marron
N = bleu
S = gris
P = noir / rouge

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