



● steinel



DE

GB

FR

NL

IT

ES

PT

SE

DK

FI

NO

GR

TR

HU

CZ

SK

PL

RO

SI

HR

EE

LT

LV

RU

BG

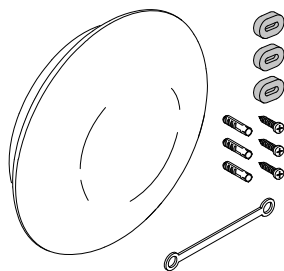
CN

DL Vario Quattro S

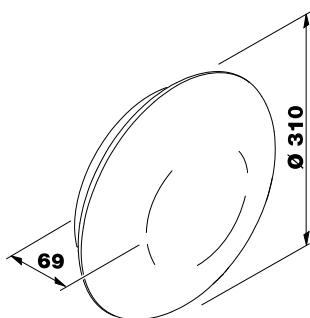


- DE.....6 Textteil beachten!
- GB.....12 Follow written instructions!
- FR.....17 Tenir compte de la partie texte !
- NL.....23 Neem de tekst in acht!
- IT.....28 Seguire attentamente le istruzioni!
- ES.....34 Téngase en cuenta el texto!
- PT.....39 Siga as instruções escritas!
- SE.....45 Iaktta texten!
- DK.....50 Følg den skriftlige vejledning!
- FI.....55 Huomioi tekstiosa!
- NO.....60 Se de skriftlige instruksene!
- GR.....65 Τηρείτε γραπτές οδηγίες!
- TR.....70 Metin kısmını dikkate alın!
- HU.....75 Szöveges részre figyelni!
- CZ.....81 Dodržujte informace v textové části!
- SK.....86 Dodržiavajte informácie v textovej časti!
- PL.....91 Postępować zgodnie z instrukcją!
- RO.....96 Respectați instrucțiunile scrise!
- SI.....101 Upošteevajte besedilo!
- HR.....106 Pridržavajte se pisanih uputa!
- EE.....111 Järgige tekstiosa!
- LT.....116 Laikykitės rašytinių instrukcijų!
- LV.....121 Pievēršiet uzmanību teksta daļai!
- RU.....126 Обратите внимание на текстовую часть!
- BG.....132 Прочетете инструкциите!
- CN.....137 遵守文字说明要求!

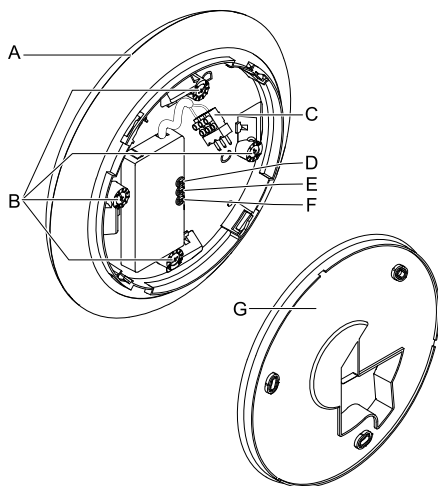
3.1



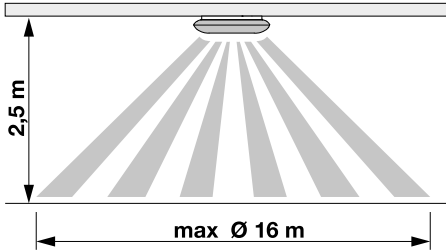
3.2



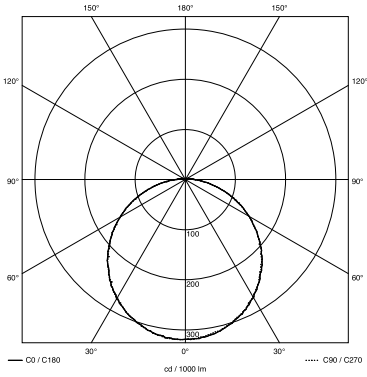
3.3



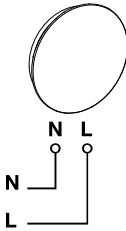
3.4



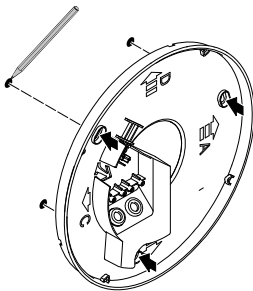
3.5



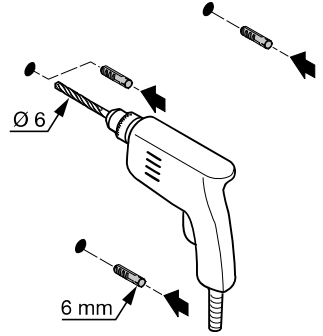
4.1



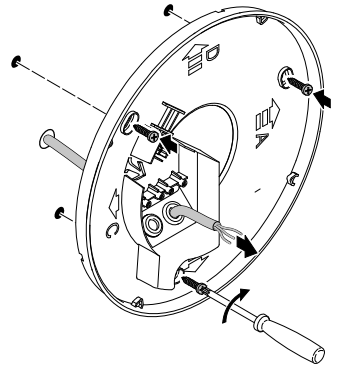
5.1



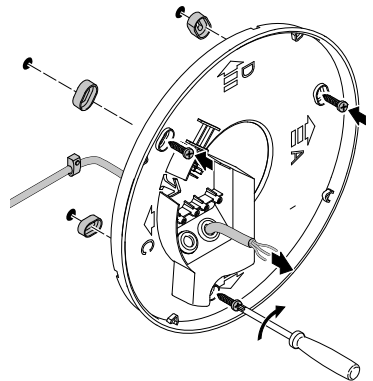
5.2



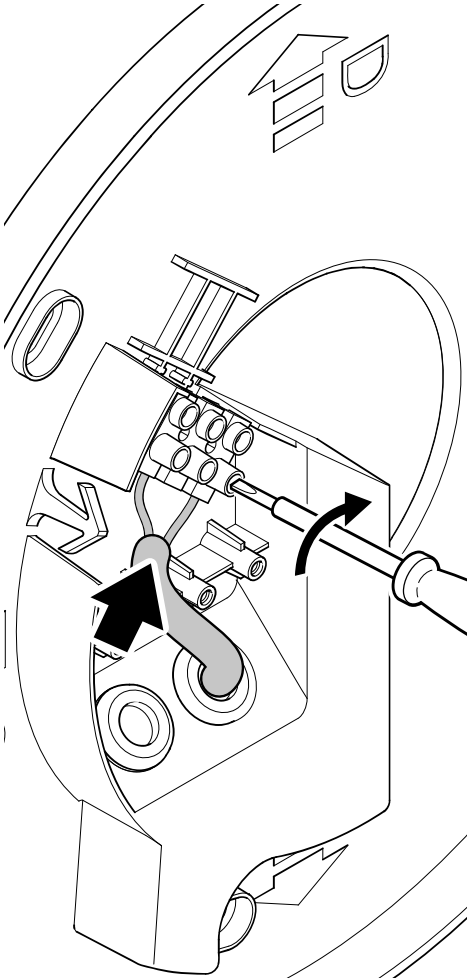
5.3



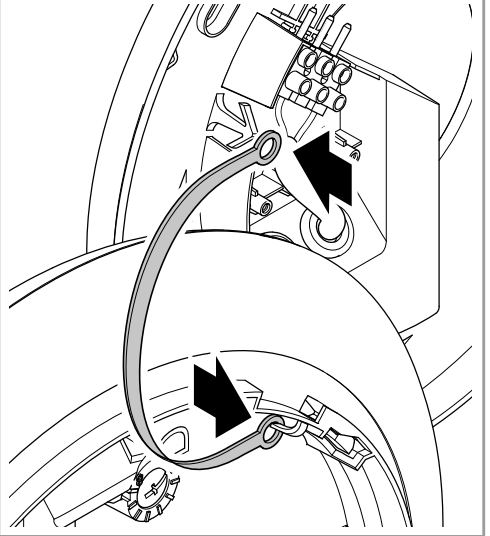
5.4



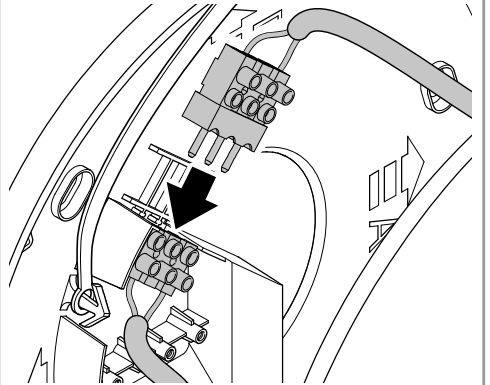
5.5



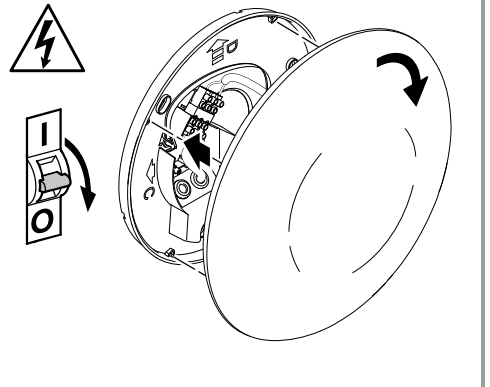
5.6



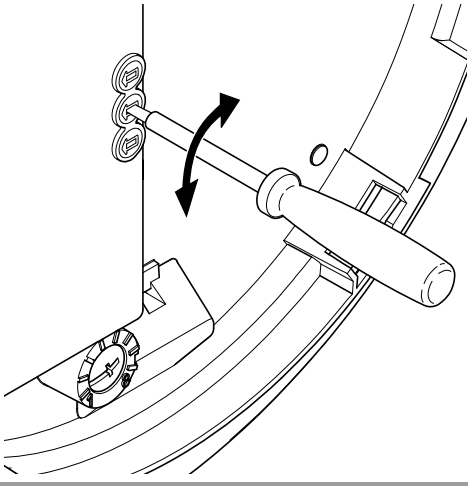
5.7



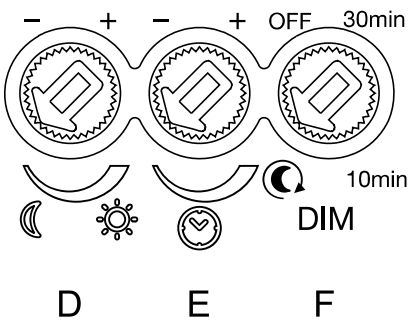
5.8



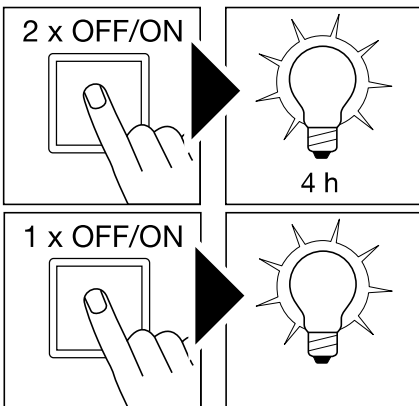
6.1



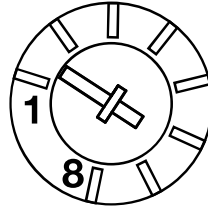
6.2



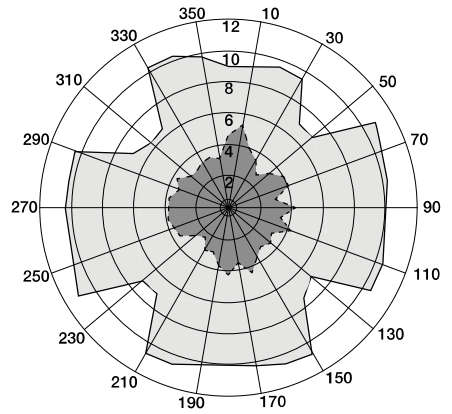
6.3



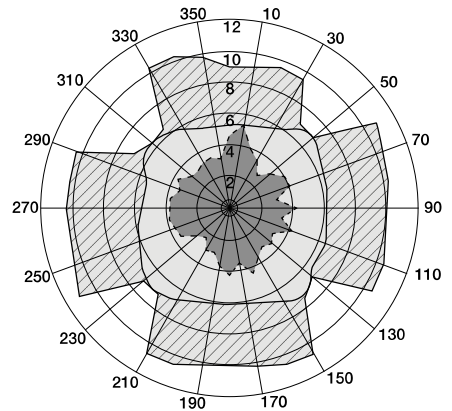
6.4



6.5



6.6



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-switched light involves work on the mains supply voltage. This work must therefore be carried out professionally in accordance with 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 work-shops.

3. DL Vario Quattro S

Proper use

- The Vario Quattro is a sensor-switched light for indoor and outdoor ceiling mounting.

The sensor-switched light is equipped with four pyro sensors that detect the invisible heat emitted by moving objects (people, animals, etc.). The heat detected in this way is converted electronically into a signal that switches the light ON. Heat is not detected through obstacles, such as walls or panes of glass, and will therefore not activate the light.

Note:

The light's shade is susceptible to scratching. The light must not be installed near radiant heaters.

Package contents (Fig. 3.1)

- Sensor-switched light
- 3 spacers
- 3 wall plugs
- 3 screws
- Retaining strap

Product dimensions (Fig. 3.2)

Product components (Fig. 3.3)

- A** Light
- B** Reach adjustment
- C** Connecting terminal
- D** Twilight setting
- E** Time setting
- F** Basic light level
- G** Ceiling mount

Detection zone (Fig. 3.4)

Luminous intensity distribution (Fig. 3.5)

4. Electrical connection

Wiring diagram (Fig. 4.1)

The mains supply lead is a 3-core cable (max. lead diameter 19 mm):

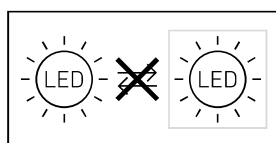
- L** = phase conductor (usually black, brown or grey)
- N** = neutral conductor (usually blue)
- PE** = protective-earth conductor (green/yellow)

If you are in any doubt, identify the conductors using a voltage tester; then disconnect from the power supply again. Connect the phase conductor (**L**) and neutral conductor (**N**) to the terminal block. Insulate protective-earth conductor (**PE**) and place it next to terminal block.

Important:

Mixing up the connections will produce a short circuit in the product or your fuse box. In this case, you must identify the individual conductors once again and reconnect them. A mains power switch for turning the unit ON and OFF may of course be installed in the mains supply lead.

The light source of this luminaire cannot be replaced. If the light source needs to be replaced (e.g. at the end of its service life), the complete luminaire must be replaced.



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.
- When installing the sensor-switched light on the ceiling, make sure the installation site is not exposed to vibration.

Mounting procedure

- Switch OFF power supply (Fig. 4.1)
- Mark drill holes (Fig. 5.1)
- Drill holes and insert wall plugs (Fig. 5.2)
- Installation with concealed power supply lead (Fig. 5.3)
- Installation with surface-mounted power supply lead (Fig. 5.4)
- Connect conductors (Fig. 5.5)
- Make settings → "6. Function"
- Attach retaining strap (Fig. 5.6)
- Make plug connection (Fig. 5.7)
- Fit light shade (Fig. 5.8)
- Switch ON power supply (Fig. 5.8)

6. Function

Factory settings:

Twilight level: 1000 lux

Time setting: 5 seconds



Basic light level: OFF


The sensor-switched light can be put into service after mounting the enclosure and connecting to the mains power supply. When putting into operation manually at the mains switch, the light will switch OFF after approx. 30 seconds for the calibration phase and is then activated for sensor mode. It is not necessary to operate the mains switch a second time.

Functions - control dials (Fig. 6.1)

Twilight setting (response threshold) (Fig. 6.2/D)

The chosen response threshold can be infinitely varied from approx. 2 to 1000 lux.

- Control dial set to  = daylight mode (depending on ambient brightness)
- Control dial set to  = twilight mode (approx. 2 lux)

The control dial must be turned to  when adjusting the detection zone and performing the functional test in daylight.

Time setting (stay-ON time) (Fig. 6.2/E)

The light's ON time can be set to any period from approx. 5 seconds to a maximum of 30 minutes. Any movement detected before this time elapses restarts the stay-ON time (for switch-off delay).

Note:


After the light switches OFF, it takes approx. 1 second before it is able to start detecting movement again. The light will only switch ON in response to movement once this period has elapsed.

The shortest time setting is recommended when adjusting the detection zone and performing the functional test.

Basic light level (Fig. 6.2/F)

The basic light level function provides illumination at approx. 10% light output when the brightness setting is reached.

Any one of four settings can be selected for the basic light level required:

- OFF
- 10 minutes after selected time elapses
- 30 minutes after selected time elapses
- all night 

Basic light switches OFF every hour to measure ambient brightness. Basic light switches back ON again after a short period.

Manual override function

If an optional mains switch is installed in the mains supply lead, the following functions are available in addition to simply switching light ON and OFF:

Manual override (Fig. 6.3)

1) Activate manual override:

Switch OFF and ON twice. The light is set to manual override for 4 hours. Then it returns automatically to sensor mode.

2) Deactivate manual override:

Switch OFF and ON once. Light switches OFF or switches to sensor operation.

Important:

Switching must take place within 0.2 to 1 second.

Reach adjustment

Reach can be infinitely adjusted in four directions via four control dials from 2 m to 8 m independently of each other. The detection reach is selected via the control dials (Fig. 6.4).

Detection diagram (Fig. 6.5)

The shaded zones show the areas that can be masked out by customising the reach setting. (Fig. 6.6)

Detection reach table

Adjustment	Mounting height 2.5 m	
	radial	tangential
1	2,4 m × 2,4 m	4 m × 4 m
2	3,2 m × 3,2 m	6 m × 6 m
3	3,6 m × 3,6 m	7,3 m × 7,3 m
4	4 m × 4 m	8,6 m × 8,6 m
5	4,4 m × 4,4 m	10,2 m × 10,2 m
6	5 m × 5 m	12,6 m × 12,6 m
7	6 m × 6 m	15,7 m × 15,7 m
8	6 m × 6 m	16 m × 16 m

Adjustment	Mounting height 2.8 m	
	radial	tangential
1	3 m × 3 m	5,4 m × 5,4 m
2	3,4 m × 3,4 m	6,4 m × 6,4 m
3	3,8 m × 3,8 m	7,5 m × 7,5 m
4	4,4 m × 4,4 m	8,8 m × 8,8 m
5	5,4 m × 5,4 m	10,4 m × 10,4 m
6	5,6 m × 5,6 m	13,1 m × 13,1 m
7	6 m × 6 m	17 m × 17 m
8	6 m × 6 m	17,3 m × 17,3 m

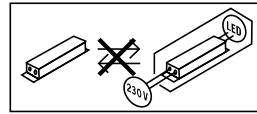
Adjustment	Mounting height 3.0 m	
	radial	tangential
1	3,4 m × 3,4 m	6,2 m × 6,2 m
2	3,6 m × 3,6 m	6,6 m × 6,6 m
3	4 m × 4 m	7,7 m × 7,7 m
4	4,8 m × 4,8 m	9 m × 9 m
5	6 m × 6 m	10,6 m × 10,6 m
6	6 m × 6 m	13,4 m × 13,4 m
7	6 m × 6 m	17,9 m × 17,9 m
8	6 m × 6 m	18,1 m × 18,1 m

Adjustment	Mounting height 6.0 m	
	radial	tangential
1	5,7 m × 5,7 m	11 m × 11 m
2	6 m × 6 m	11,7 m × 11,7 m
3	6,7 m × 6,7 m	13,6 m × 13,6 m
4	8 m × 8 m	16 m × 16 m
5	10 m × 10 m	18,7 m × 18,7 m
6	10 m × 10 m	23,8 m × 23,8 m
7	10 m × 10 m	31,7 m × 31,7 m
8	10 m × 10 m	32 m × 32 m

7. Maintenance

The light can be cleaned with a damp cloth (without detergents) if dirty.

Important note: the control gear cannot be replaced.



8. 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.

9. 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.

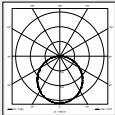

Claims under the warranty will only be accepted if the unit is sent fully assembled and well-packed with a brief description of the fault, a receipt or invoice (date of purchase and dealer's stamp) to the appropriate Service Centre.

Repair service:

If defects occur outside the warranty period or are not covered by the warranty, ask your nearest service station for the possibility of repair.

3 YEAR
MANUFACTURER'S
WARRANTY

10. Technical specifications

Dimensions ($\varnothing \times T$)	$\varnothing 310 \times 69$ mm
Supply voltage	220-240 V 50/60 Hz
Power consumption (P_{on})	9.80 W
Luminous flux (360°)	1,000 lm
Efficiency	102 lm/W
Standby sensor (P_{sb})	0.42 W
Colour temperature	3,000 K (warm white)
Colour rendering index	$R_a = 82$
Average rated life expectancy	L70B50 at 25°C: > 60,000 hours
Colour consistency SDCM	Starting value: 3
Luminous intensity distribution	
Sensor technology	PIR, 4 pyros
Detection zone	360°
Detection reach	16 x 16 m detection areas for a mounting height of 2.50 m, can be reduced to an area of 4 x 4 m
Time setting	5 s - 30 min
Twilight setting	2-1,000 lux
Basic light level function	OFF, 10 min, 30 min, all night
IP rating	IP54
Protection class	II
Impact resistance	IK 07
Ambient temperature	-20 to +35°C
	Technical documentation at www.steinel.de
Energy efficiency class	This product contains an energy efficiency class "D" light source.

11. Troubleshooting

Malfunction	Cause	Remedy
Sensor-switched light without power	<ul style="list-style-type: none"> ■ Fuse has tripped, not switched ON, break in wiring ■ Short circuit in mains power supply lead ■ Any mains switch OFF 	<ul style="list-style-type: none"> ■ Activate, change fuse, turn ON power switch, check wiring with voltage tester ■ Check connections ■ Switch on mains switch
Sensor-switched light will not switch ON	<ul style="list-style-type: none"> ■ Incorrect twilight setting selected ■ Mains switch OFF ■ Fuse has tripped 	<ul style="list-style-type: none"> ■ Readjust ■ Switch ON ■ Activate, change fuse, check connection if necessary
Sensor-switched light will not switch OFF	<ul style="list-style-type: none"> ■ Continued movement within the detection zone 	<ul style="list-style-type: none"> ■ Check detection zone
Sensor-switched light switches ON without any identifiable movement	<ul style="list-style-type: none"> ■ Light not mounted for detecting movement reliably ■ Movement occurred, but not identified by the observer (movement behind wall, movement of a small object in immediate lamp vicinity etc.) 	<ul style="list-style-type: none"> ■ Securely mount enclosure ■ Check detection zone
Sensor-switched light does not switch ON despite movement	<ul style="list-style-type: none"> ■ Rapid movements are suppressed to minimise malfunctioning or detection zone set too small ■ Incorrect twilight setting selected 	<ul style="list-style-type: none"> ■ Check detection zone ■ Readjust