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STEINEL®
PROFESSIONAL

Information

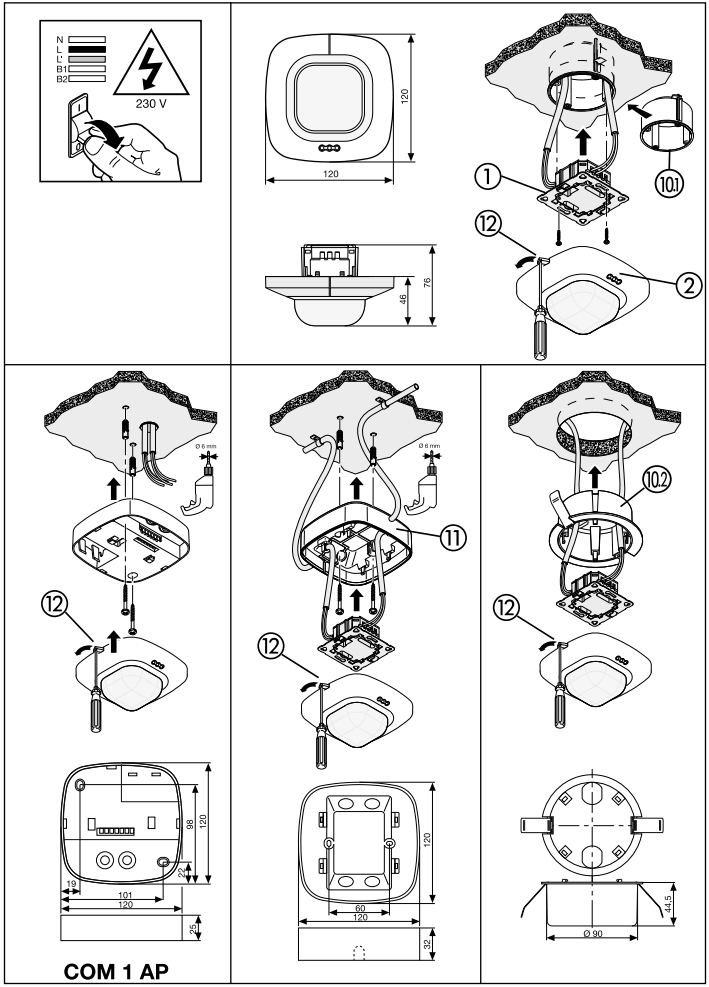
IR Quattro COM 1
IR Quattro COM1 AP
IR Quattro COM 2
IR Quattro DIM

IR Quattro HD COM 1
IR Quattro HD COM 1 AP
IR Quattro HD COM 2
IR Quattro HD DIM

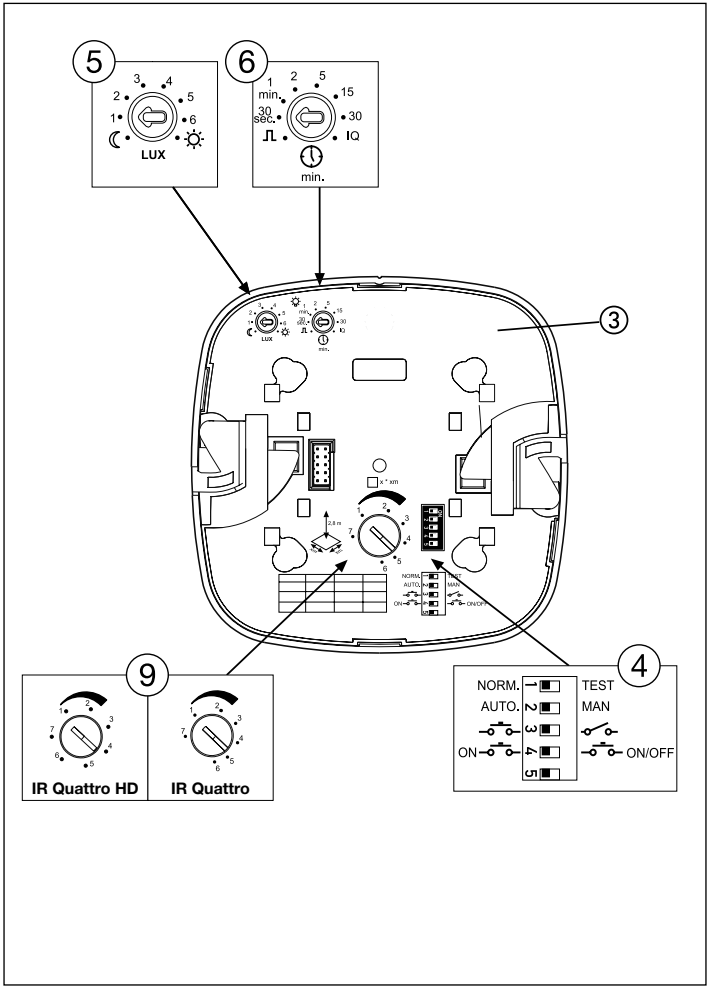
CONTROL PRO SYSTEM

DE GB FR CZ NL SK IT PL ES RO PT SI SE HR DK EE FI LT NO LV GR RU TR BG HU CN

⑬



IR Quattro COM 1/COM 1 AP / IR Quattro HD COM 1/HD COM 1 AP



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		IR Quattro			IR Quattro HD		
		Presence	Radial	Tangential	Presence	Radial	Tangential
2,50 m	1	2,6 m × 2,6 m	2,4 m × 2,4 m	2,8 m × 2,8 m	3,6 m × 3,6 m	3 m × 3 m	4 m × 4 m
	2	2,9 m × 2,9 m	2,4 m × 2,4 m	2,8 m × 2,8 m	4 m × 4 m	4 m × 4 m	4 m × 4 m
	3	3,2 m × 3,2 m	2,4 m × 2,4 m	2,8 m × 2,8 m	4,6 m × 4,6 m	4 m × 4 m	5 m × 5 m
	4	3,4 m × 3,4 m	3 m × 3 m	3,8 m × 3,8 m	5,2 m × 5,2 m	5 m × 5 m	6 m × 6 m
	5	3,6 m × 3,6 m	3,8 m × 3,8 m	4,7 m × 4,7 m	5,8 m × 5,8 m	5 m × 5 m	8 m × 8 m
	6	4,1 m × 4,1 m	4,2 m × 4,2 m	5,6 m × 5,6 m	6,8 m × 6,8 m	5 m × 5 m	13 m × 13 m
	7	4,7 m × 4,7 m	4,7 m × 4,7 m	6,6 m × 6,6 m	7,8 m × 7,8 m	6 m × 6 m	18 m × 18 m
2,80 m	1	2,8 m × 2,8 m	2,4 m × 2,4 m	2,8 m × 2,8 m	3,8 m × 3,8 m	3 m × 3 m	4 m × 4 m
	2	3,1 m × 3,1 m	2,8 m × 2,8 m	3 m × 3 m	4,4 m × 4,4 m	4 m × 4 m	4,5 m × 4,5 m
	3	3,5 m × 3,5 m	3 m × 3 m	3,8 m × 3,8 m	5,1 m × 5,1 m	4 m × 4 m	5,5 m × 5,5 m
	4	3,9 m × 3,9 m	3,6 m × 3,6 m	4,5 m × 4,5 m	5,5 m × 5,5 m	5 m × 5 m	6,5 m × 6,5 m
	5	4,2 m × 4,2 m	4,2 m × 4,2 m	5,4 m × 5,4 m	5,9 m × 5,9 m	5,5 m × 5,5 m	8,5 m × 8,5 m
	6	4,4 m × 4,4 m	4,4 m × 4,4 m	6,1 m × 6,1 m	6,9 m × 6,9 m	6,5 m × 6,5 m	17 m × 17 m
	7	4,7 m × 4,7 m	4,7 m × 4,7 m	7,1 m × 7,1 m	7,9 m × 7,9 m	7 m × 7 m	20 m × 20 m
3,00 m	1	2,8 m × 2,8 m	2,8 m × 2,8 m	2,8 m × 2,8 m	4 m × 4 m	3 m × 3 m	4 m × 4 m
	2	3,2 m × 3,2 m	3,3 m × 3,3 m	3,3 m × 3,3 m	4,8 m × 4,8 m	4 m × 4 m	5 m × 5 m
	3	3,6 m × 3,6 m	3,8 m × 3,8 m	4,7 m × 4,7 m	5,6 m × 5,6 m	4 m × 4 m	6 m × 6 m
	4	3,7 m × 3,7 m	4,2 m × 4,2 m	5,4 m × 5,4 m	5,8 m × 5,8 m	5 m × 5 m	7 m × 7 m
	5	3,8 m × 3,8 m	4,7 m × 4,7 m	6,1 m × 6,1 m	6 m × 6 m	6 m × 6 m	9 m × 9 m
	6	4,2 m × 4,2 m	4,7 m × 4,7 m	6,6 m × 6,6 m	7 m × 7 m	8 m × 8 m	20 m × 20 m
	7	4,2 m × 4,2 m	4,8 m × 4,8 m	7 m × 7 m	8 m × 8 m	8 m × 8 m	22 m × 22 m
3,50 m	1	2,8 m × 2,8 m	4,7 m × 4,7 m	4,7 m × 4,7 m	4,8 m × 4,8 m	5 m × 5 m	6 m × 6 m
	2	3,2 m × 3,2 m	5,2 m × 5,2 m	5,6 m × 5,6 m	5 m × 5 m	5,5 m × 5,5 m	6 m × 6 m
	3	3,6 m × 3,6 m	5,6 m × 5,6 m	7,5 m × 7,5 m	5,4 m × 5,4 m	6 m × 6 m	6 m × 6 m
	4	3,7 m × 3,7 m	6,6 m × 6,6 m	9,1 m × 9,1 m	5,8 m × 5,8 m	7 m × 7 m	9,5 m × 9,5 m
	5	3,8 m × 3,8 m	7,1 m × 7,1 m	9,9 m × 9,9 m	6,2 m × 6,2 m	8 m × 8 m	13 m × 13 m
	6	4,2 m × 4,2 m	7,5 m × 7,5 m	11 m × 11 m	7,2 m × 7,2 m	9,5 m × 9,5 m	20,5 m × 20,5 m
	7	4,2 m × 4,2 m	8,6 m × 8,6 m	12 m × 12 m	8,2 m × 8,2 m	11 m × 11 m	28 m × 28 m
4,00 m	1	–	3,8 m × 3,8 m	3,8 m × 3,8 m	–	6 m × 6 m	7 m × 7 m
	2	–	3,8 m × 3,8 m	4,7 m × 4,7 m	–	6 m × 6 m	7,5 m × 7,5 m
	3	–	3,8 m × 3,8 m	5,6 m × 5,6 m	–	6 m × 6 m	8 m × 8 m
	4	–	4,7 m × 4,7 m	7,5 m × 7,5 m	–	7 m × 7 m	12 m × 12 m
	5	–	4,7 m × 4,7 m	7,5 m × 7,5 m	–	8 m × 8 m	15 m × 15 m
	6	–	5,6 m × 5,6 m	8,5 m × 8,5 m	–	8 m × 8 m	20 m × 20 m
	7	–	7,5 m × 7,5 m	10,3 m × 10,3 m	–	8,4 m × 8,4 m	24 m × 24 m

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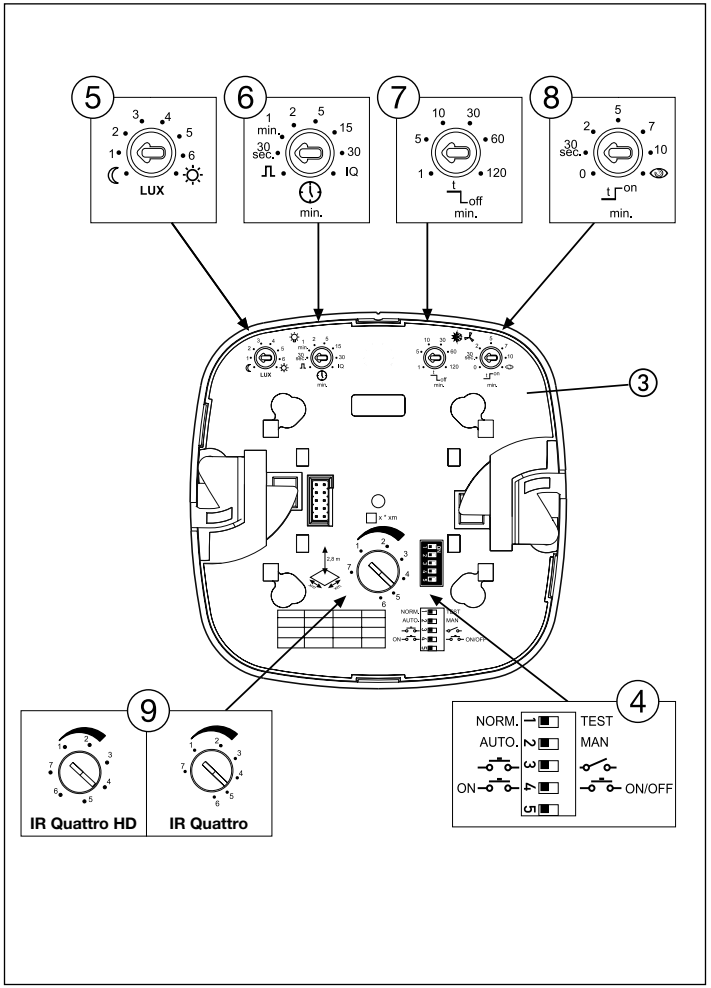
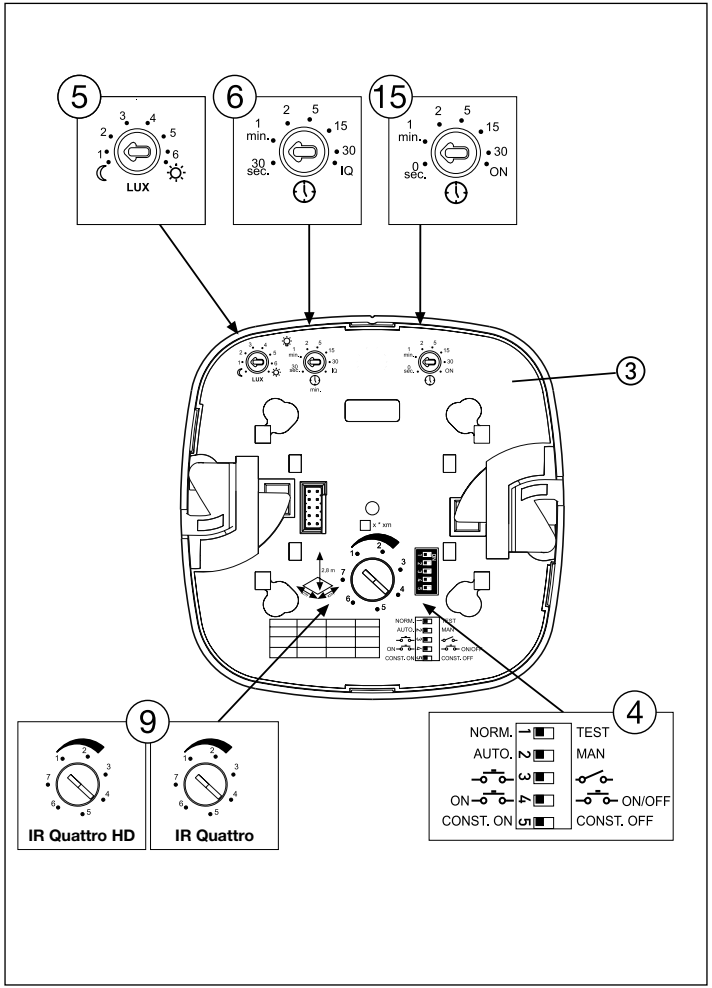
		IR Quattro			IR Quattro HD		
		Presence	Radial	Tangential	Presence	Radial	Tangential
5,00 m	1	–	3,3 m × 3,3 m	4,7 m × 4,7 m	–	6 m × 6 m	8 m × 8 m
	2	–	3,3 m × 3,3 m	5,2 m × 5,2 m	–	6,3 m × 6,3 m	11 m × 11 m
	3	–	3,3 m × 3,3 m	5,6 m × 5,6 m	–	6,7 m × 6,7 m	14 m × 14 m
	4	–	3,9 m × 3,9 m	7,2 m × 7,2 m	–	7 m × 7 m	17 m × 17 m
	5	–	4,4 m × 4,4 m	8,9 m × 8,9 m	–	7,4 m × 7,4 m	20 m × 20 m
	6	–	6,4 m × 6,4 m	10,5 m × 10,5 m	–	7,7 m × 7,7 m	24 m × 24 m
	7	–	8,5 m × 8,5 m	12,2 m × 12,2 m	–	8,1 m × 8,1 m	27 m × 27 m
6,00 m	1	–	3 m × 3 m	5 m × 5 m	–	7 m × 7 m	9 m × 9 m
	2	–	3 m × 3 m	5,4 m × 5,4 m	–	7,1 m × 7,1 m	12 m × 12 m
	3	–	3 m × 3 m	5,6 m × 5,6 m	–	7,3 m × 7,3 m	16 m × 16 m
	4	–	4,1 m × 4,1 m	7,6 m × 7,6 m	–	7,4 m × 7,4 m	19 m × 19 m
	5	–	5,2 m × 5,2 m	9,4 m × 9,4 m	–	7,5 m × 7,5 m	23 m × 23 m
	6	–	7 m × 7 m	11,3 m × 11,3 m	–	7,7 m × 7,7 m	26 m × 26 m
	7	–	8,9 m × 8,9 m	13,1 m × 13,1 m	–	7,8 m × 7,8 m	30 m × 30 m
8,00 m	1	–	2,8 m × 2,8 m	7,5 m × 7,5 m	–	7,4 m × 7,4 m	11 m × 11 m
	2	–	2,8 m × 2,8 m	7,8 m × 7,8 m	–	7,5 m × 7,5 m	15,2 m × 15,2 m
	3	–	2,8 m × 2,8 m	8 m × 8 m	–	7,7 m × 7,7 m	19,4 m × 19,4 m
	4	–	3,9 m × 3,9 m	10 m × 10 m	–	7,8 m × 7,8 m	23,5 m × 23,5 m
	5	–	5,5 m × 5,5 m	11,5 m × 11,5 m	–	7,9 m × 7,9 m	27,7 m × 27,7 m
	6	–	7 m × 7 m	14 m × 14 m	–	8,1 m × 8,1 m	31,9 m × 31,9 m
	7	–	8,5 m × 8,5 m	15,5 × 15,5 m	–	8,2 m × 8,2 m	36,1 m × 36,1 m
10,00 m	1	–	–	–	–	7,5 m × 7,5 m	11,5 m × 11,5 m
	2	–	–	–	–	7,6 m × 7,6 m	14,5 m × 14,5 m
	3	–	–	–	–	7,6 m × 7,6 m	18 m × 18 m
	4	–	–	–	–	7,8 m × 7,8 m	20 m × 20 m
	5	–	–	–	–	7,8 m × 7,8 m	22 m × 22 m
	6	–	–	–	–	8,1 m × 8,1 m	23 m × 23 m
	7	–	–	–	–	8,2 m × 8,2 m	24 m × 24 m

IR Quattro COM 2 / IR Quattro HD COM 2



IR Quattro DIM / IR Quattro HD DIM



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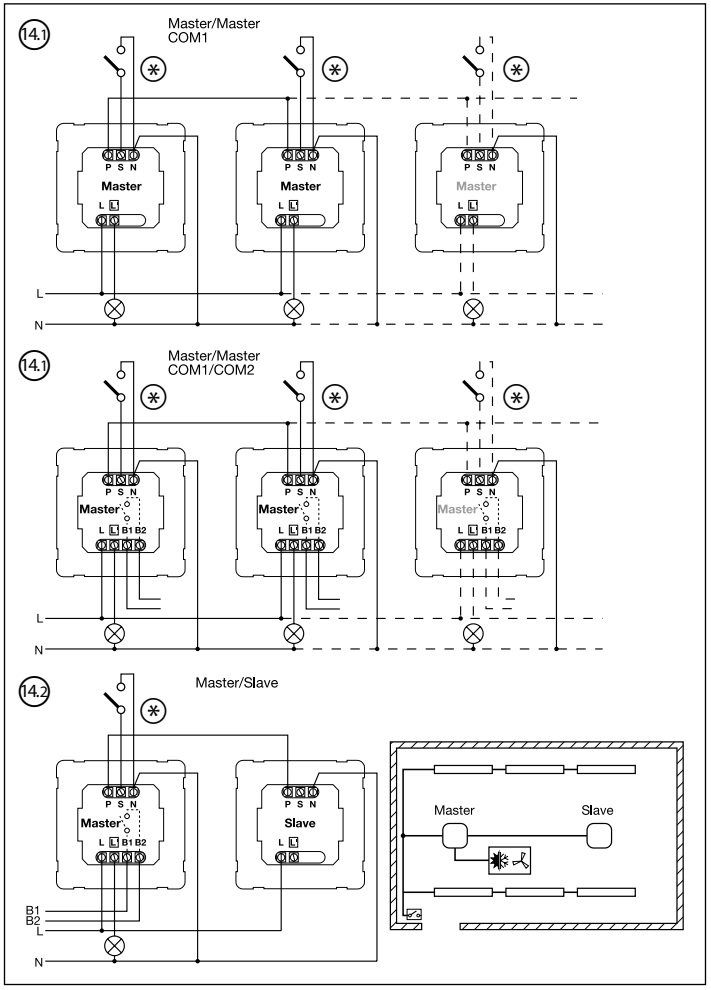
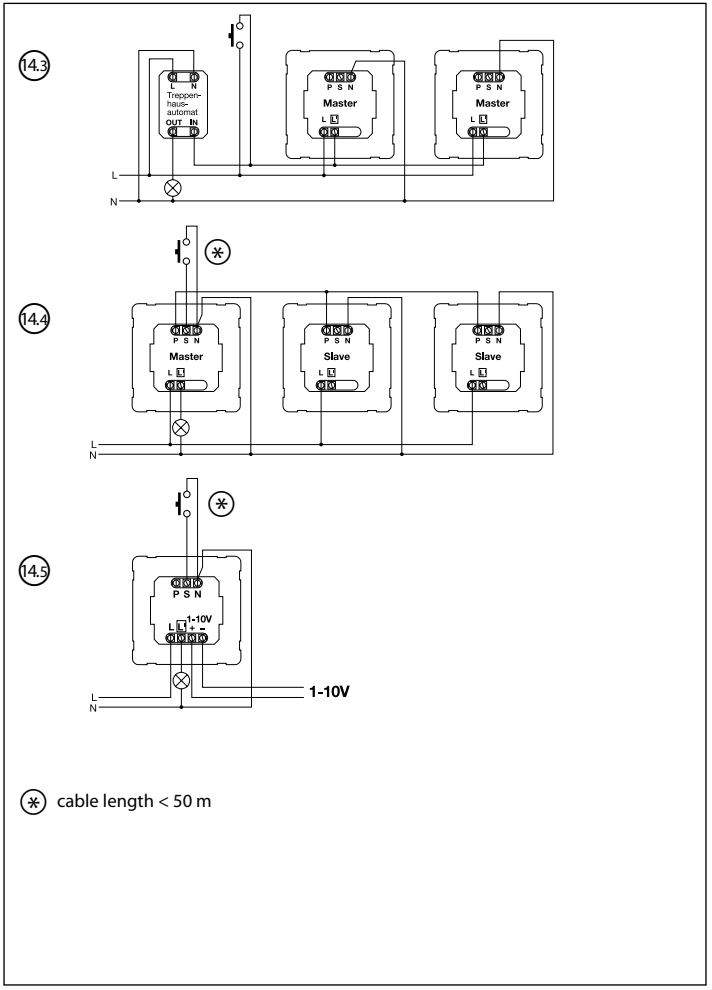

14.1
Master/Master
COM1
Master
Master
Master
P S N
L
N
14.1
Master/Master
COM1/COM2
Master
Master
Master
P S N
L B1 B2
L
N
14.2
Master/Slave
Master
Slave
P S N
L B1 B2
L
B1
B2
N
Master
Slave

⑭


14.3
Treppen-
haus-
automat
OUT IN
L N
Master
Master
P S N
L
N
14.4
Master
Slave
Slave
P S N
L
N
14.5
P S N
1-10V
L
N
1-10V
cable length < 50 m

GB Operating instructions

Dear Customer,

Congratulation on purchasing your new STEINEL sensor and thank you for the confidence you have shown in us. You have chosen a high-quality product that has been manufactured, tested and packed with the greatest care.

Please familiarise yourself with these instructions before attempting to install the product because prolonged, reliable and trouble-free operation will only be ensured if it is fitted and used properly.

We hope your new STEINEL sensor will bring you lasting pleasure.

⚠ Safety warnings

- Disconnect the power supply before attempting any work on the sensor!
- During installation, the electric power cable to be connected must be dead. 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 the applicable national wiring regulations and electrical operating conditions (VDE 0100).
- Terminal B 1, B 2 is a switching contact for low-energy circuits, no higher than 1 A. This must be provided with appropriate fuse protection.
- Control output DIM 1-10 V must only be used for connecting electronic ballasts with electrically isolated control signal.

Assembly/Installation ⑬ (see chart on page 2)

The sensor is only intended for concealed, indoor installation in ceilings (apart from the COM 1 AP - surface-mounted - option). A clamping-type ceiling adapter or surface-mounting adapter is not included.

Sensor and load module come ready assembled and must be plugged together after fitting the load module and setting the potentiometers/dip switches. The sensor module must then be locked in position at the catch mechanism ⑫, using a screwdriver if necessary.

Accessories:
Kaiser junction box for stud walls
EAN no.: 4007841 000370
Clamping-type ceiling adapter
EAN no. 4007841 002855
Surface-mounting adapter,
EAN no.: 4007841 000363
Guard cage,
EAN no.: 4007841 003036
Service remote control,
EAN no.: 4007841 000387
User remote control,
EAN no.: 4007841 003012

System components

① Load module
② Sensor module
③ Sensor base
④ Dip switches
(1) Normal/test mode
(2) Semi-/fully automatic mode
(3) Button/switch
(4) 'ON' / 'ON'-'OFF' button
(5) DIM option
Constant lighting control
'ON'/'OFF'
⑤ Twilight setting
⑥ Time setting
Switching output 1
⑦ HVAC stay-'ON' time
Switching output 2
⑧ HVAC switch-'ON' delay
Switching output 2
⑨ Reach setting
⑩ Kaiser stud-wall junction box, optional
⑩2 Clamping-type ceiling adapter, optional
⑪ Surface-mounting adapter IP 54, optional
⑫ Locking mechanism
⑬ Assembly/Installation
⑭ Parallel-connected configurations
⑮ Stay-'ON' time
Orientation light
DIM option

How it works / Basic function

The infrared presence detectors from the Control PRO range control lighting as well as heating, ventilation and air-conditioning (COM 2 only), e.g. in offices, schools, public buildings or at home, in relation to ambient light level and the presence of persons.

The pyro-sensor with highly advanced lens provides a square detection zone, as the typical shape of a room, in which the smallest of movements are sensed. The presence detector's switching outputs and reach are set at the potentiometers and dip switches or by using the optional remote control.

Presence Control has a low intrinsic power consumption.

Presence Control PRO

IR Quattro COM 1 / COM 1 AP (surface-mounted)
IR Quattro HD COM 1 / COM 1 AP (surface-mounted)

1 switching output operating in relation to brightness setting and presence of persons.

Settings:
- Brightness setting
- Stay-'ON' time, pulse mode, IQ mode

Presence Control PRO

IR Quattro COM 2
IR Quattro HD

1 switching output as COM 1. An additional 2nd switching output for operating HVAC (heating/ventilation/air-conditioning) in relation to the presence of persons.

Settings:
- Stay-'ON' time
- Switch-'ON' delay
- Room surveillance

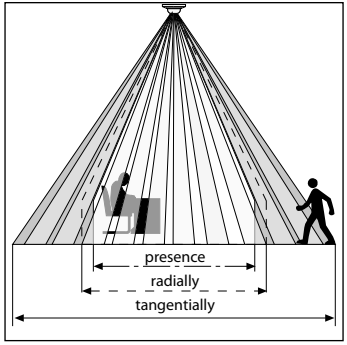
Presence Control PRO

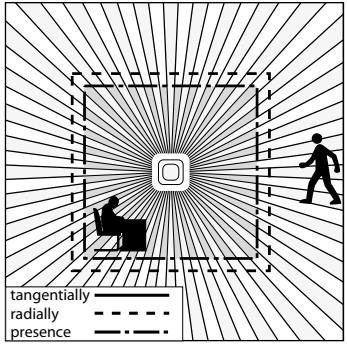
IR Quattro DIM
IR Quattro HD DIM

1 switching output operating in relation to brightness setting and presence of persons.

Settings:
- Brightness setting
- Stay-'ON' time, IQ mode
- Orientation light
- Constant lighting control

Detection zone



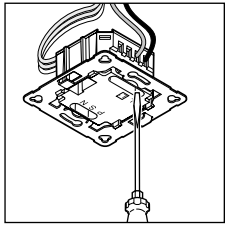


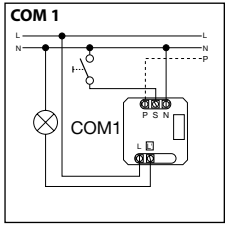
Reliable presence detection largely depends on the number, condition and arrangement of the lens segments. The IR Quattro with its square detection zone of 49 m² divided up into 13 levels and 1760 switching zones senses the smallest of movements. With a square detection zone covering an area of 64 m², the IR Quattro HD has 4800 switching zones that provide even greater precision. These reaches can be adjusted to suit specific requirements at the setting potentiometer.

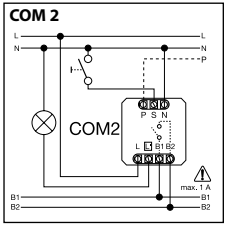
The square detection zone and the capability of interconnecting master/slave versions provide the basis for creating optimum configurations quickly and easily.

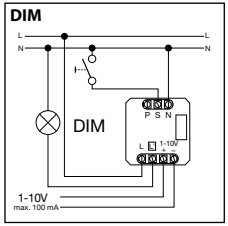
Electrical installation/Automatic mode

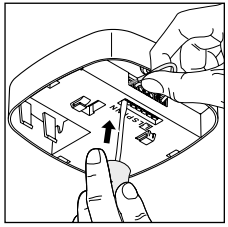
In selecting the wiring leads, it is important to meet the wiring regulations laid down in VDE 0100 (see Safety warnings on page 20). The following applies to wiring presence detectors: Section 6 of VDE 0100 520 permits the use of a multiple-conductor cable containing both the mains-voltage wires as well as the control lines (e.g. NYM 5 × 1.52) for the wiring between sensor and electronic ballast. The mains supply lead must be no greater than 10 mm in diameter. The clamping range of the mains terminal is designed for a maximum of 2 × 2.5 mm². When installing the surface-mounting version, connect a circuit breaker (16 A) on the line side.

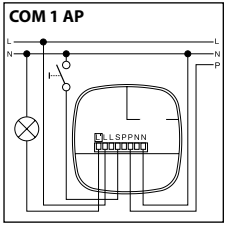












Technical Specifications

Dimensions (H × W × D):	120 × 120 × 76 mm	
Power supply:	230 – 240 V, 50 Hz / 60 Hz	
Minimum load:	3 W	
Capacity, **switching output 1:**	**230 V relay**	
(COM 1/COM 2)	resistive load of 2000 W max. (cos φ = 1)	
	1000 VA max. (cos φ = 0.5)	
Electronic ballast:	Max. 'ON' current 800 A/200 µs	
(COM 1/COM 1 AP/COM 2/DIM)	30 × (1 × 18 W), 25 × (2 × 18 W)	
	25 × (1 × 36 W), 15 × (2 × 36 W)	
	20 × (1 × 58 W), 10 × (2 × 58 W)	
	Pay attention to specific 'ON' currents of electronic ballasts!	
	A relay or contactor must be provided on line side for higher switching capacities.	
Capacity, **switching output 2:**	**Presence**	
(COM 2 only)	max. of 230 W/230 V	
	1A max., (cos φ = 1) for HVAC (heating/ventilation/air conditioning)	
Square detection zones:	**IR Quattro**	**IR Quattro HD**
Presence:	max. of 4 × 4 m (16 sq.m.)	max. of 8 × 8 m (64 sq.m.)
Radially:	max. of 5 × 5 m (25 sq.m.)	max. of 8 × 8 m (64 sq.m.)
Tangentially:	max. of 7 × 7 m (49 sq.m.)	max. of 20 × 20 m (400 sq.m.):
Light-level setting:	10 – 1000 lux, ∞ / daylight /	
	DIM 100 – 1000 lux control threshold	
Switching output 1:	30 sec. – 30 min., pulse mode (approx. 2 sec.),	
Time setting	IQ mode (automatic adjustment to the usage profile)	
Switching output 2:	**COM2 only, for HVAC**	
Time setting	0 sec. – 10 min. switch-'ON' delay	
	1 min. – 2 hrs. stay-'ON' time	
	Automatic room surveillance	
DIM:	30 sec. – 30 min.,	
Time setting	IQ mode (automatic adjustment to the usage profile)	
Control output:	1 – 10 V / max. of 50 electronic ballasts, max. of 100 mA	
Installation height:	2.5 m – 8 m (IR Quattro)	
(mounted to ceiling)	2.5 m – 10 m (IR Quattro HD)	
Installation site:	indoors	
Sensors:	13 detection levels, 1760 switching zones (IR Quattro)	
	13 detection levels, 4800 switching zones (IR Quattro HD)	
IP rating:	IP 20	
Protection class:	II	
Temperature range:	0° C to +40° C	

GB

Functions – Settings by DIP switch

COM 1 + COM 2

DIP 1

Normal mode / Test mode (NORM / TEST)

Test mode has priority over all other settings on the presence detector and serves the purpose of checking for proper working order as well for testing the detection zone. Irrespective of ambient light level, the presence detector activates the light to stay 'ON' for approx. 8 sec. in response to movement in the room (blue LED flashes when movement is detected). All user-selected potentiometer settings apply in normal mode. The presence detector can also be set by means of the blue LED without any load connected.

DIP 2

Semi-automatic mode (MAN) / fully automatic mode (AUTO)

Semi-automatic mode: (MAN)

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 at the potentiometer. (pressing twice switches 'ON' for 4 hours).

Fully automatic mode: (AUTO)

The light automatically switches 'ON' and 'OFF' in relation to brightness when someone is present. Light can be switched 'ON' and 'OFF manually at any time. This temporarily interrupts the automatic switching function. Irrespective of the settings selected, light stays 'ON' for 4 hours after manually pressing the button twice or switches 'OFF' after manually pressing the button once. Pressing the button before the 4 hours elapse returns the Presence Control IR Quattro to the normal operating mode.

DIP 3

Button/switch

Tells the sensor how to interpret the incoming signal. Assigning external buttons/switches allows you to operate the detector as a semi-automatic unit and override it manually at any time.

- Operation either by button or switch
- Several buttons possible on one control input
- Only use illuminated pushbutton with neutral conductor connected
- Cable length between sensor and switch < 50 m

DIP 4

'ON'/'ON'-'OFF' button

In the 'ON'-'OFF' setting, the light can be switched 'ON' and 'OFF' manually at any time (except in pulse mode: no manual 'OFF'). In the 'ON' setting, light can no longer be switched 'OFF' manually. The stay-'ON' time starts from the beginning again each time the button is pressed.

DIM

DIP 5

Constant light 'ON'/'OFF'

Provides a constant level of brightness. Detector measures the prevailing level of daylight and activates sufficient artificial light to achieve the required level of brightness. As daylight changes, the switched-in artificial lighting component is adjusted accordingly. In addition to the daylight component, artificial light is also switched 'ON' and 'OFF' in relation to whether or not persons are present.

Functions – Settings by potentiometer

COM 1 + COM 2

Potentiometer ⑤

Twilight setting

The chosen response threshold can be infinitely varied from approx. 10 – 1000 lux.

Control dial turned fully clockwise: MAX daylight mode
Control dial turned fully anti-clockwise: MIN night-time operation

Depending on the site of installation, the setting may need to be corrected by 1-2 marks on the scale.

Examples of use	Brightness settings
Night-time mode	min
Corridors, foyers	1
Stairs, escalators, moving walkways	2
Washrooms, toilets, switchrooms, canteens	3
Sales floor, kindergartens, nursery school rooms, sports halls	4
Work environments: Offices, conference and meeting rooms, precision assembly activities, kitchens	5
Working areas requiring good light: Laboratory, technical drawing, precision work	>=6
Daylight mode	max

Note: Depending on the site of installation, the setting may need to be corrected by 1 – 2 marks on the scale. Brightness is measured directly at the sensor.

Potentiometer ⑥

Time setting

Stay-'ON'- time for switching output 1
Setting 30 sec. – 30 min.

The chosen stay-'ON' time is infinitely variable from a minimum of approx. 30 sec. to a maximum of 30 min. Light is calibrated after 3 min. When the threshold is exceeded, the sensor switches 'OFF' after the stay-'ON' time expires.

Pulse mode (except DIM) ⎍

If the dial is set to ⎍ (fully anti-clockwise), the unit is in pulse mode, i.e. the output is switched 'ON' for approx. 2 sec. (e.g. for stairwell lighting timer). Afterwards, the sensor does not respond to movement for approx. 8 sec.

Day mode is the only mode possible here because of dazzle by light from external sources.

IQ mode

Turned fully clockwise: 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 min., the longest 20 min.

COM 2

Potentiometer ⑦

Stay-'ON' time for switching output 2 HVAC

Setting 1 sec. – 2 hr.
- Turned fully clockwise: max
- Turned fully anti-clockwise: min

Potentiometer ⑧

Switch-'ON' delay for switching output 2 HVAC

- Setting 0 sec. – 10 min.
- Turned fully clockwise: Room surveillance
- Turned fully anti-clockwise: 0 sec. (OFF)

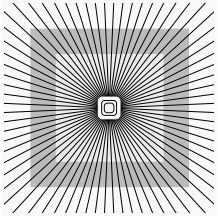
Turning the potentiometer to the "Surveillance" setting reduces the sensitivity of the "Presence" switching output. The contact only closes on detecting a pronounced movement, signalising with a high degree of certainty that persons are present. The stay-'ON'- time remains active. The switch-'ON' delay is inactivated.

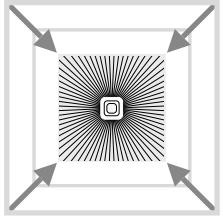
Potentiometer ⑮

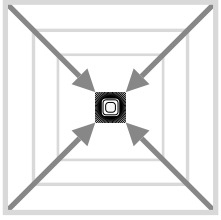
Basic brightness (DIM option)

Provides basic illumination for the selected stay-'ON' time when ambient light falls below the selected brightness threshold that is set. This can be dimmed to 10% of maximum light intensity. As soon as a person enters the scene, the detector switches either to 100% light intensity (constant-lighting controller 'OFF') or adjusts to the preselected brightness level (constant-lighting controller 'ON'). When no movement is being detected, the detector dims back to basic brightness after the stay-'ON' time expires. This is switched 'OFF' when stay-'ON' time (1 min. – 30 min.) has expired or the daylight component is sufficient to exceed the selected level of brightness. In the 'ON' setting, the detector switches basic brightness 'ON' and 'OFF' as soon as the level of light falls below the brightness threshold.

Reach adjustment







Potentiometer ⑨

Adjusts reach to specific requirements.

See table on pages 4 – 5 showing Technical Specifications for selecting settings to suit specific requirements.

Parallel-connected configurations

When using several detectors, they must be connected to the same phase!

GB

(14.1) Master/master

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 brightness 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.

(14.2) Master/slave

The master/slave configuration permits detection of movement in large-type 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 or HVAC is switched 'ON' and 'OFF' by the master only.

(14.3) Two detectors linked with an external stairwell lighting timer

Old building / building modernisation

External light source activated by button. No twilight mode, day mode only.

(14.4) Detector as stairwell lighting timer

(14.5) DIM detector

Additional functions with RC 5

Burning-in function

Pressing the button for > 5 s activates the burn-in function for 100 h.

Presentation mode

Pressing the button for > 5 s keeps the light OFF while movement is being detected.
If movement is no longer being detected, the light switches back to sensor mode after the stay-ON time elapses (LED ON).

Additional functions with RC 8 (DIM version)

Basic brightness

Pressing the relevant button for > 5 s changes the basic brightness to 60 min.

1 - 6

Basic brightness level

Pressing the relevant button for > 5 s changes the brightness level in steps of 10% to: 1 = 10%, 2 = 20%, ... 6 = 60%

Dimming by pushbutton

When a pushbutton is connected to the S terminal, lighting can be dimmed by pressing the pushbutton. The pushbutton first increases lighting to maximum level and then returns it to minimum level. After releasing the pushbutton without further control action, the lighting level selected is maintained until the light is switched OFF.
The detector is then in the previously selected sensor mode.
The direction in which the level of lighting is changed (max./min.) can be reversed by briefly releasing and then re-pressing the pushbutton.

Remote control

Using the remote control, functions can be conveniently activated from the floor.

Note: The pulse mode cannot be overridden by the remote control. Switch pulse mode 'OFF' manually.

Presence Control remote control unit: EAN no.: 4007841 000387

Troubleshooting

Malfunction	Cause	Remedy
Light does not switch 'ON'	■ No supply voltage ■ Lux setting too low ■ No motion detection	■ Check supply voltage ■ Slowly increase lux setting until light switches 'ON' ■ Ensure unobstructed sensor vision ■ Check detection zone
Light does not switch 'OFF'	■ Lux setting too high ■ Stay-'ON' time running out ■ Interference from sources of heat, 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 ■ Use stickers to mask out stationary sources of interference ■ Increase distance between Wi-Fi device and sensor
Sensor switches 'OFF' in spite of persons being present	■ Stay-'ON' time too short ■ Light-level threshold too low	■ Increase stay-'ON' time ■ Change light threshold
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 in spite of it being dark	■ Lux setting too low	■ Sensor deactivated by switch/button? ■ Semi-automatic mode? ■ Increase light-level threshold

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.

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