

Sensor Guide



Understanding and planning sensor technology.

**The right solution for any space.**

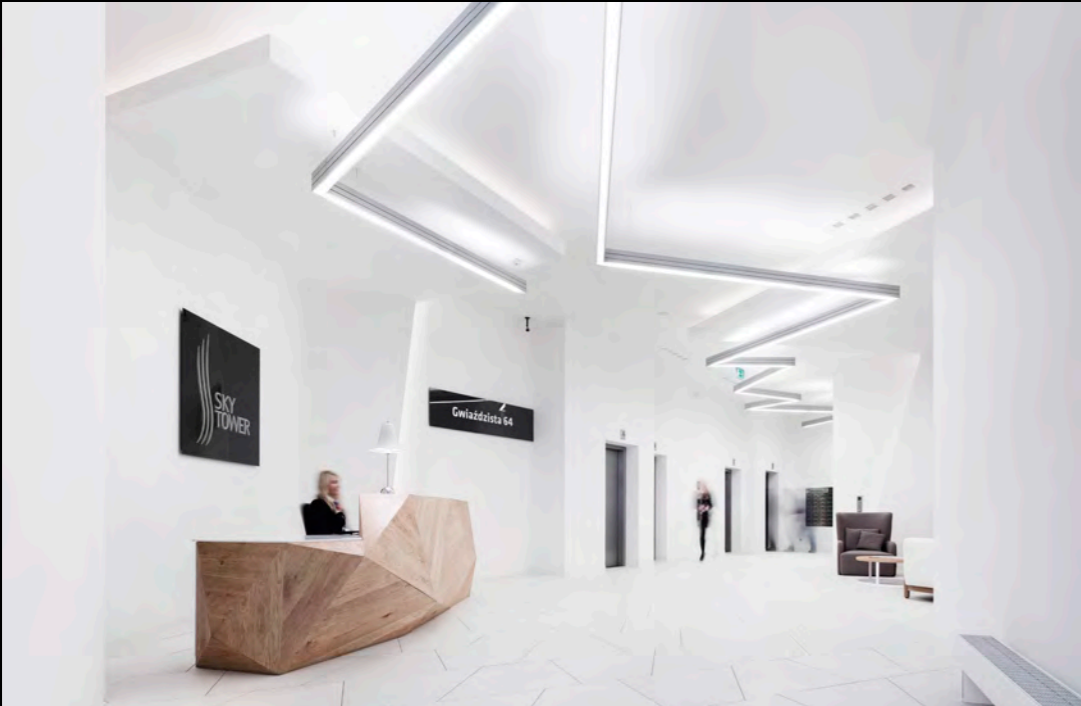
# The right solution for any application.

Long corridors, irregularly shaped stairwells, one-person and open-plan offices, WCs, washrooms or warehouses: commercial properties come with all kinds of different spatial situations. STEINEL has been devoted to the exciting task of developing the best possible lighting control solution for each and every one of them for over 30 years. As a specialist and technology leader in this field, we employ all of the four commonly used sensor technologies in our products out of conviction. For full, reliable coverage of every last inch of space – in absolutely any situation.

In this brochure, which has received an award from the well-known German trade journal bba – Bau, Beratung, Architektur (Building, Advice, Architecture) - we show you why which sensor technology is the best for the specific room situation – and how we put it to optimum use in our products. This will help you to find the ideal sensor for any application in next to no time.

We are convinced of our products and want to convince you as well.  
Not least with our 5-year manufacturer's warranty on all STEINEL PROFESSIONAL products.

5 YEAR  
MANUFACTURER'S  
WARRANTY



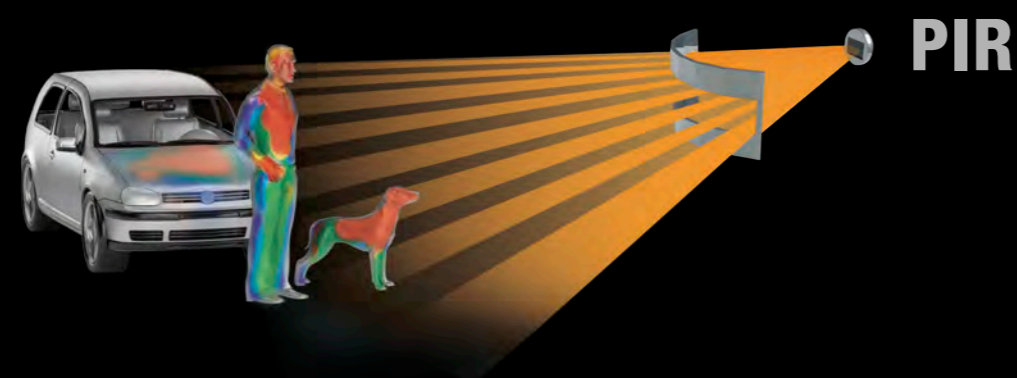
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Our 4 sensor technologies.  
The right solution for any application.

Passive infrared

Responds to moving sources of heat.



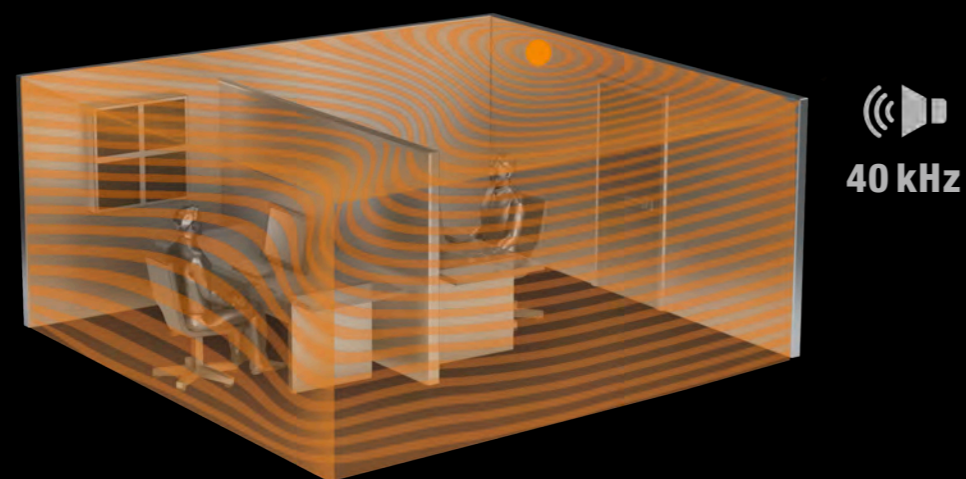
High frequency

Can even see through thin walls.



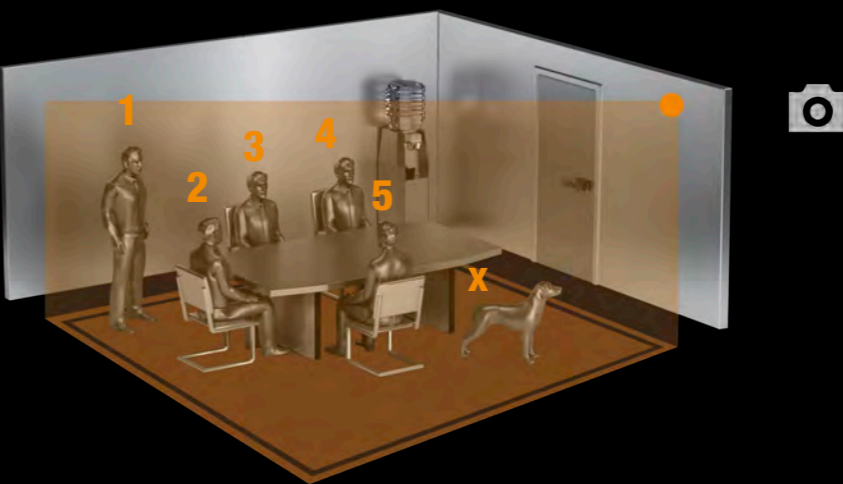
Ultrasonic

Fills the entire room and also detects movement around objects.



Optical sensor

Only detects people and can also count them.



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## Corridor/aisle sensors

It is crucial for a corridor sensor to be good at detecting radial movements. This means in situations where the sensor is approached from the front. STEINEL has developed special sensors for corridors, aisles and passageways on the basis of high-frequency or infrared technology – with a 'radial reach' of up to 12.5 metres in each direction. The DUAL HF or Hallway is the perfect solution for a ceiling height of up to 3.50 m!

### Special applications

- The Hallway can be adjusted in both directions to suit any specific need
- The IS 345 infrared sensor is the right choice for a ceiling height of up to 5 m.
- For wall mounting, the IR 180 UNIVERSAL is the right choice.

### Technical advice

With the Hallway, IR 180 UNIVERSAL and the Dual HF, reach can be set very conveniently via remote control.



### Presence detector **Hallway**

- High-frequency corridor sensor
- Perfect radial detection in a hallway with a length of up to 25 m
- Detects the direction in which people are walking (coming and going)
- Reach can be adjusted separately in two directions.
- Wireless interconnection via Bluetooth
- Surface-mounted and concealed versions
- COM1, COM2, DALI, KNX (concealed installation only)

For EANs, see page 44



### Motion detector **IS 345**

- Infrared corridor sensor
- For corridors and aisles in warehouses, residential and office buildings
- Ceiling installation at a height of up to 5 m
- Detection zone 23 m long and 6 m wide
- Lens specifically geared to corridors
- Surface-mounted and concealed versions in both round and square designs
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 47



### Presence detector **Dual HF**

- High-frequency corridor sensor
- HF sensor detects through thin walls and suspended ceilings
- For corridors and passageways in residential and office buildings
- 20 m reach, 10 m in each direction
- Detects everything equally well whichever direction it is approached from
- COM1, DIM, DALI, DALI-2, LiveLink, KNX

For EANs, see page 45



### Presence switch **IR 180**

- 180° infrared presence switch
- For corridors and passageways in residential and office buildings
- 20 m reach
- The KNX version indicates temperature and humidity levels measured
- Adapters for all commonly used 55 mm surrounds
- Available as 2 and 3-wire option
- COM1, COM2, DALI, KNX

For EANs, see page 46

## Corridor/aisle sensor-switched lights

Sensor-switched lights from STEINEL are the perfect solution for new builds and refurbishment. The high-frequency sensor invented by STEINEL is invisibly integrated into the light and only switches light ON when it is needed. Simply connect the light to the power supply, set the sensor via potentiometer – job done! High-efficiency STEINEL LED systems on the cutting edge of technology provide contemporary and energy-efficient lighting.

### Installation advice

- All models can be used equally well as wall or ceiling lights.

### Technical advice

The Q1, S1 and S2 models are suitable for wireless bi-directional interconnection. All lights provide an optional basic light level function, neighbouring group function and presence mode.



### Sensor-switched indoor light **RS PRO LED Q1**

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 26W giving up to 2920 lumens, 3000K or 4000K
- Optional 10–50% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, group configuration, switches OFF in relation to daylight

For EANs, see page 52



### Sensor-switched indoor light **RS PRO LED S1**

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 15W giving up to 1580 lumens, 3000K or 4000K
- Optional 10–90% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, switches OFF in relation to daylight

For EANs, see page 52



### Sensor-switched indoor light **RS PRO LED S2**

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 26W giving up to 2600 lumens, 3000K or 4000K
- Optional 10% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, switches OFF in relation to daylight

For EANs, see page 52



### Sensor-switched indoor light **RS PRO LED P2**

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 15W giving up to 1600 lumens, 3000K or 4000K
- Optional basic light level 10%
- Also available as emergency light version in compliance with EN 60598-2-22
- Up to 10 lights can be interconnected by cable

For EANs, see page 52

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## Stairwell sensors

In stairwells, it is often hard to provide any direct detection of persons walking up and down the stairs. This is due to the winding nature of stairwells which infrared technology is not designed for. For this reason, STEINEL offers sensors based on high-frequency and ultrasonic technology that guarantee perfect detection in stairwells.

### Installation advice

- Use the high-frequency sensors for normal building architecture and for 360-degree detection
- In small and winding stairwells, choose the Single US ultrasonic sensor

### Technical advice

The HF 360, HF 180 and Single US models provide a semi-automatic mode for switching light ON manually and OFF again automatically.



### Motion detector HF 3360

- 360° high-frequency motion detector
- 8 m reach in diameter
- Ceiling, wall or corner mounting
- Ideal for entrances
- Surface-mounted and concealed versions in both round and square designs
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 48



### Presence switch HF 180

- 180 high-frequency presence switch
- For stair wells, entrance rooms and WC facilities
- 1- 8 m reach in diameter
- The KNX version indicates temperature and air humidity levels measured.
- Adapters for all commonly used 55 mm surrounds
- COM1, COM2, DALI, KNX

For EANs, see page 46



### Presence detector HF 360

- 360° high-frequency presence detector
- HF sensor detects through thin walls and suspended ceilings
- 12 m reach in diameter, ceiling mounting
- COM1, COM2, DIM, DALI, DALI-2, LiveLink, KNX

For EANs, see page 45



### Presence detector Single US

- Ultrasonic corridor sensor
- US sensor envelops objects but does not pass through them
- For corridors and passageways in residential and office buildings
- Perfect detection in one direction
- 10m reach, electronically adjustable
- COM1, COM2, DIM, DALI-2, LiveLink, KNX

For EANs, see page 45

## Stairwell sensor-switched lights

Sensor-switched lights from STEINEL are the perfect solution for new builds and refurbishment. The high-frequency sensor invented by STEINEL is invisibly integrated into the light and only switches light ON when it is needed. Simply connect the light to the power supply, adjust the sensor via potentiometer – that's all there is to it! High-efficiency STEINEL LED systems on the cutting edge of technology provide contemporary and energy-efficient lighting.

### Installation advice

- All models can be used equally well as wall or ceiling lights.

### Technical advice

To install the RS PRO Connect 5100 LED, you can use existing wiring and drill holes. The lights can be interconnected and adjusted via Bluetooth without the need for cables using the STEINEL app.



### Sensor-switched indoor light RS PRO LED Q1

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 26W giving up to 2920 lumens, 3000 K or 4000 K
- Optional 10–50% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, group configuration, switches OFF in relation to daylight

For EANs, see page 52



### Sensor-switched indoor light RS PRO Connect 5100 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, Ø 12 m reach
- 30W giving 4206 lumens, 4000 K
- Optional 10 - 50% basic light level, 50 - 100% main light level, presence mode, neighbouring group function
- Wireless interconnection via Bluetooth

For EANs, see page 52

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### Sensor-switched indoor light RS PRO LED S2

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 26W giving up to 2600 lumens, 3000 K or 4000 K
- Optional 10% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, switches OFF in relation to daylight

For EANs, see page 52



### Sensor-switched indoor light RS PRO LED P3

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 19W giving up to 2000 lumens, 3000 K or 4000 K
- Optional basic light level 10%
- Also available as emergency light version in compliance with EN 60598-2-22
- Up to 10 lights can be interconnected by cable

For EANs, see page 52

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## One-person office sensors

Detecting the smallest of movements is particularly important in offices. High-resolution presence detectors from STEINEL even make sure that the light does not go out when sitting at the computer. In addition to precision infrared sensors, STEINEL now also offers highly sensitive ultrasonic technology from the USA.

### Benefits from STEINEL

- With an installed height of just 6 mm, the IR Quattro SLIM XS is almost invisible
- The IR Quattro lets you limit detection to any chosen work areas
- Measuring only 43 mm in diameter, the IR Quattro MICRO is STEINEL's most compact presence detector

### Technical advice

Utilise natural daylight with the constant lighting control function from the DIM, DALI and KNX versions for maximum energy efficiency.



### Presence Detector **IR Quattro MICRO**

- 360° infrared presence detector
- 16 m<sup>2</sup> presence detection zone
- Only Ø 43 mm
- Micro-precision lens, 15 x 15 mm
- Also suitable for rooms exposed to moisture (IP65)
- Adjustable via smart remote
- COM1, DALI-2, KNX

For EANs, see page 45



### Presence detector **IR Quattro SLIM XS**

- 360° infrared presence detector
- Square presence detection zone covering 16 m<sup>2</sup>, ceiling mounting
- 6 mm installed height, installation in all standard flush-mounting boxes
- COM1, LiveLink, KNX

For EANs, see page 45



### Presence detector **IR Quattro**

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- 16 m<sup>2</sup> presence detection zone, ceiling mounting
- COM1, COM2, DIM, DALI, KNX

For EANs, see page 44



### Presence detector **US 360**

- 360° ultrasonic presence detector
- US sensor envelops objects but do not pass through them
- 28 m<sup>2</sup> presence detection zone, ceiling mounting
- COM1, COM2, DIM, DALI-2, LiveLink, KNX

For EANs, see page 45

## Open-plan office sensors

With STEINEL presence detectors you can watch over every last inch of large offices with just a few sensors. Besides the advanced infrared sensors, STEINEL now also offers the successful combination of infrared and ultrasonic technology. This way, lighting in open-plan offices can be controlled very reliably and very efficiently.

### Benefits from STEINEL

- The IR Quattro HD provides a presence detection zone of up to 64 m<sup>2</sup>, as well as an exact square detection footprint restricted to specific work groups
- Combining infrared and ultrasonic technologies, the DualTech opens up completely new technical options, e.g switching ON light via infrared and detecting presence via ultrasonic waves

### Technical advice

Install the DualTech in the corner at the entrance to the room so as to maximise tangential detection when people enter.



### Human Presence Detector **HPD2**

- Covering 110°, the world's only optical sensor of its kind
- Detects and counts people sitting and standing
- 15 m reach with 5 (10 for the IP version) precisely definable detection zones, wall mounting
- Integrated temperature and humidity sensors
- IP and KNX interface

For EANs, see page 44



### Presence detector **IR Quattro HD**

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 64 m<sup>2</sup>
- Ceiling installation at a height of up to 10 m
- COM1, COM2, DIM, DALI, DALI plus, DALI-2, LiveLink, KNX

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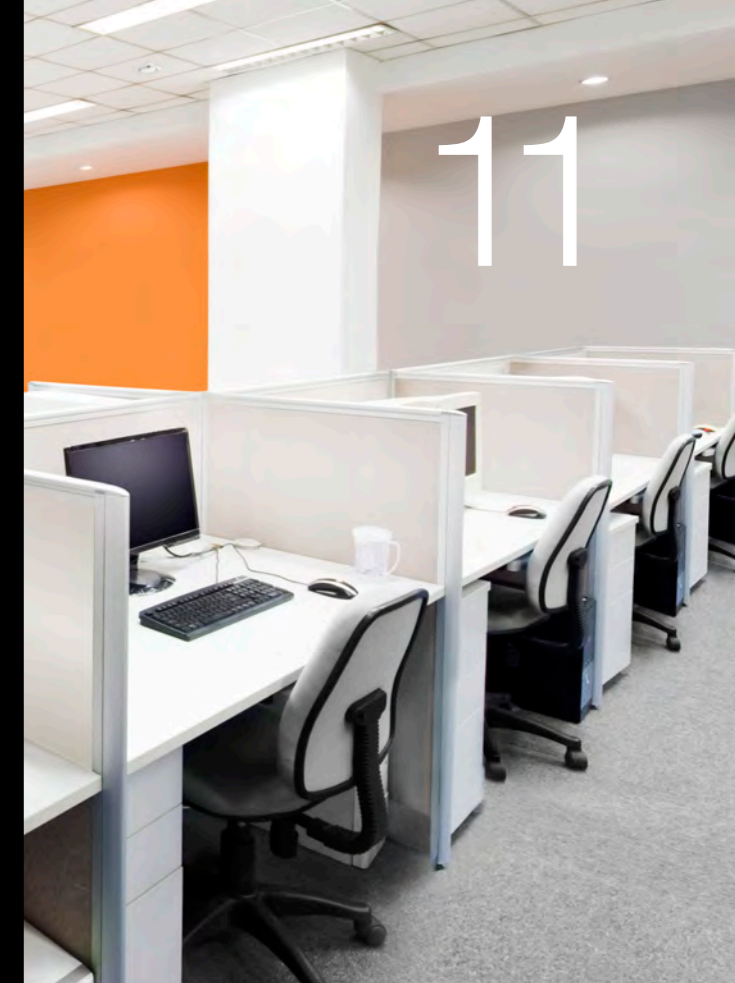


### Presence detector **DualTech**

- 360° DualTech presence detector
- Infrared + ultrasonic for best detection quality
- 28 m<sup>2</sup> presence detection zone, ceiling mounting
- COM1, COM2, DIM, DALI-2, LiveLink, KNX

For EANs, see page 45

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## Flex Desk Management sensors

One workstation in a large city can cost € 10,000 a year and more. And sometimes not even half of these workplaces are effectively occupied. The Desk Sharing solution lets you know at a glance where there still are places available and where not. Idea: Increase the utilisation rate and save money.

### Benefits from STEINEL

- Areas can be divided into a total of 5 detection zones.
- Live information on capacity utilisation and frequency.
- Provides data for analysing situations.

### Technical advice

Once installed, the HPD2 can stay where it is even after restructuring the room situation. All you need to do is re-set the zones. This means the HPD2 provides maximum versatility when re-organising rooms.

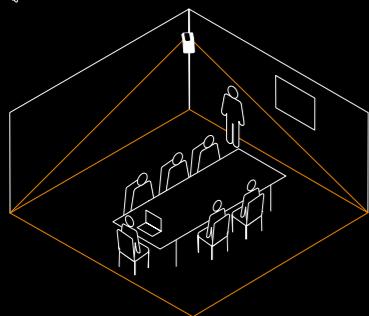


### Human Presence Detector HPD2

- Covering 110°, the world's only optical sensor of its kind
- Detects and counts people sitting and standing
- 15 m reach with 5 (10 for the IP version) precisely definable detection zones, wall mounting
- Integrated temperature and humidity sensors
- IP and KNX interface

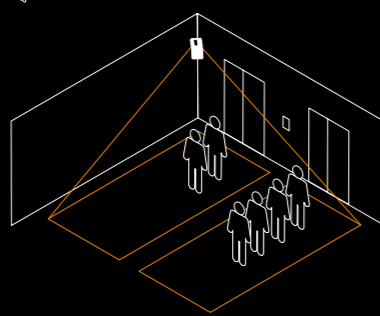
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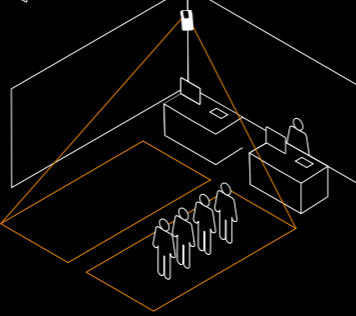
Reliable detection of the number of people in a room.

2, 4 = 6



Live information concerning utilisation and frequency.

0, 4 = 4



Data provision for situation-analysis.

## Hotel sensors

Which room is available, which room is still occupied? It is embarrassing and inefficient when service personnel enter a room that is still occupied. The Hospitality-Solution lets you easily detect which rooms still have guests present and which do not. Service can be optimised and performed much more quickly.

### Benefits from STEINEL

- True Presence® technology permits reliable absence detection for the first time
- Digital configuration of the detection zones and sensor specifications

### Technical advice

Use all of the sensor detection capabilities provided by the True Presence Multisensor KNX and also get information on ambient light level, room temperature, humidity, radial object distance, persons approaching / moving away, CO<sub>2</sub>, volatile organic compounds (VOC) and air pressure



### Presence detector True Presence

- Never makes mistakes detecting human presence
- Micro-movements from breathing are enough
- Reliable absence detection
- 64 m<sup>2</sup> True Presence® detection, 177 m<sup>2</sup> presence and motion detection
- Detection zone adjustable with digital precision
- New, unique design
- 2 - 12m mounting height
- COM1, COM2, DALI, KNX (concealed installation only)

For EANs, see page 44

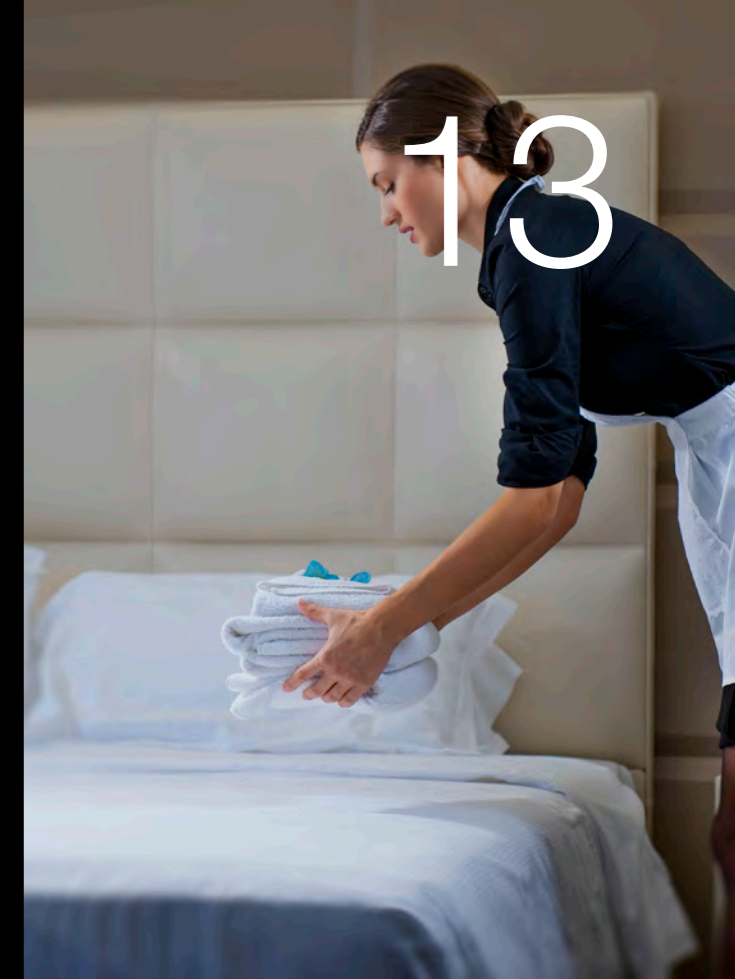


### Presence detector Hallway

- High-frequency corridor sensor
- Perfect radial detection in a hallway with a length of up to 25 m
- Detects the direction in which people are walking (coming and going)
- Reach can be adjusted separately in two directions.
- Wireless interconnection via Bluetooth
- Surface-mounted and concealed versions
- COM1, COM2, DALI, KNX (concealed installation only)

For EANs, see page 44

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### Presence & Multisensor True Presence Multisensor KNX

- 7 sensor detection variables: true presence, brightness, temperature, humidity, air pressure, volatile organic compounds (VOC), CO<sub>2</sub>
- Micro-movements due to breathing are enough
- 64 m<sup>2</sup> True Presence® detection, 177 m<sup>2</sup> presence and motion detection
- Precisely adjustable digital detection zone
- New, unique design
- 2 - 12m mounting height

For EANs, see page 44

## Conference room sensors

Especially in conference rooms, the demands on sensors are very high. To cope with the particular challenges of office spaces, STEINEL offers innovative solutions that are based on True Presence and optical sensor technology.

### Benefits from STEINEL

- With our Meeting Room solution, the HPD2 lets you quickly and reliably ascertain room utilisation and actual occupancy, and can even show you how many people are in a particular room. As a result, it can provide highly relevant information for overall building automation.
- Ultrasonic sensor US 360 is ideal for pendant lights or sound insulation elements

### Technical advice

The HPD2 lets you set up to ten detection zones with absolute precision!



### Human Presence Detector HPD2

- Covering 110°, the world's only optical sensor of its kind
- Detects and counts people sitting and standing
- 15 m reach with 5 (10 for the IP version) precisely definable detection zones, wall mounting
- Integrated temperature and humidity sensors
- IP and KNX interface

For EANs, see page 44



### Presence detector IR Quattro HD

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 64 m²
- Ceiling installation at a height of up to 10 m
- COM1, COM2, DIM, DALI, DALI plus, DALI-2, LiveLink, KNX

For EANs, see page 44



### Presence detector True Presence

- Never makes mistakes detecting human presence
- Micro-movements from breathing are enough
- Reliable absence detection
- 64 m² True Presence® detection, 177 m² presence and motion detection
- Detection zone adjustable with digital precision
- New, unique design
- 2 - 12 m mounting height
- COM1, COM2, DALI, KNX (concealed installation only)

For EANs, see page 44



### Presence detector US 360

- 360° ultrasonic presence detector
- US sensor envelops objects but do not pass through them
- 28 m² presence detection zone, ceiling mounting
- COM1, COM2, DIM, DALI-2, LiveLink, KNX

For EANs, see page 45

## Classroom sensors

Using sensors to control lighting in classrooms is a real challenge. Particular during tests, when pupils hardly move, lighting must not be allowed to go out. This is where you need outstanding detection performance with the first-class sensor technology from STEINEL.

### Benefits from STEINEL

- With its 64 m² presence detection zone, the IR Quattro HD can cover an entire classroom.
- True Presence® is the first detector for identifying actual human presence. Reliably detects presence and absence of people in a 64 m² area "in True Presence quality"

### Technical advice

Multi-sensor Air detects temperature, humidity, air quality, volatile organic compounds (VOC) and brightness, making it a building's real sensory organ and provides the information that is necessary for true building intelligence.



### Presence detector IR Quattro HD

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 64 m²
- Ceiling installation at a height of up to 10 m
- The DALI plus version lets you address and control as many as 3 independent lighting groups
- COM1, COM2, DIM, DALI, DALI plus, DALI-2, LiveLink, KNX

For EANs, see page 44



### Presence & Multisensor True Presence Multisensor KNX

- 7 sensor detection variables: true presence, brightness, temperature, humidity, air pressure, volatile organic compounds (VOC), CO<sub>2</sub>
- Micro-movements due to breathing are enough
- 64 m² True Presence® detection, 177 m² presence and motion detection
- Precisely adjustable digital detection zone
- New, unique design
- 2-12m mounting height

For EANs, see page 44



### Presence detector True Presence

- Never makes mistakes detecting human presence
- Micro-movements from breathing are enough
- Reliable absence detection
- 64 m² True Presence® detection, 177 m² presence and motion detection
- Detection zone adjustable with digital precision
- New, unique design
- 2 - 12 m mounting height
- COM1, COM2, DALI, KNX (concealed installation only)

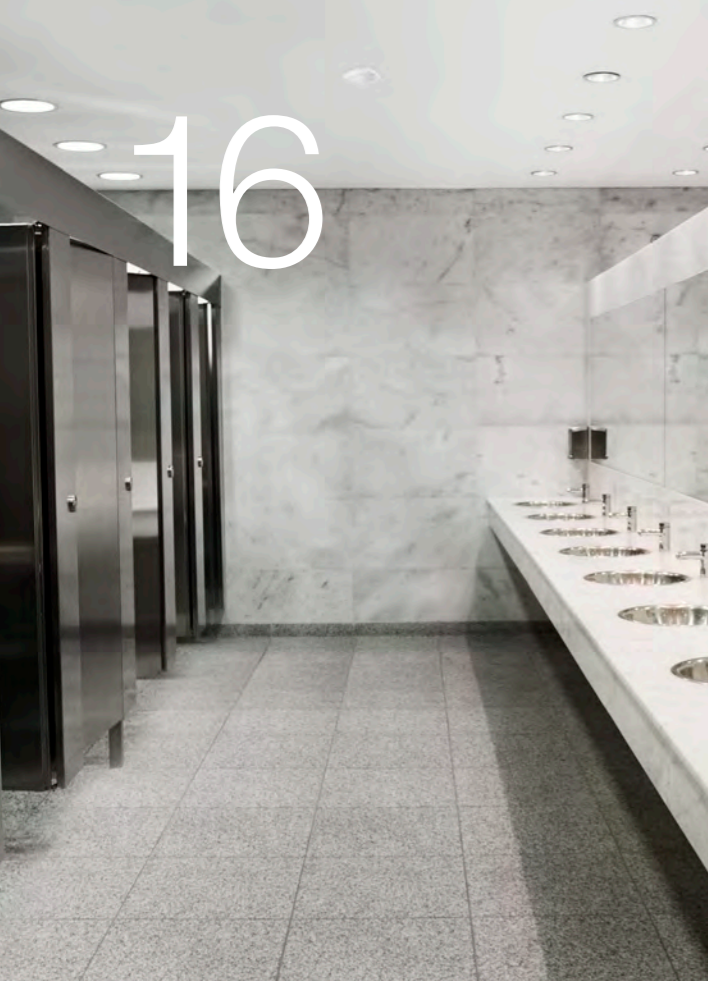
For EANs, see page 44



### Indoor Climate Sensor Multisensor Air KNX

- Detection of temperature, humidity, air pressure, volatile organic compounds (VOC), CO<sub>2</sub> and brightness
- New, unique design

For EANs, see page 44



## WC / washroom sensors

In WCs and washrooms, cubicles and partitions make it difficult to detect movement. Conventional infrared technology involves installing a large number of sensors to ensure well-functioning detection – in fact, a sensor above each WC. That is expensive and involves a lot of work.

### Benefits from STEINEL

- The high-frequency technology developed by STEINEL is capable of reliably detecting movement through stud walls! Compared with infrared technology, this means you only need a fraction of the sensors.

### Technical advice

Using the ceiling adapter, install the HF 360 invisibly on the suspended ceiling where it is protected from vandalism.

### HF ceiling adapter

EAN 4007841 006600



### Presence detector HF 360

- 360° high-frequency presence detector
- HF sensor detects through thin walls and suspended ceilings
- 12 m reach in diameter, ceiling mounting
- COM1, COM2, DIM, DALI, DALI-2, LiveLink, KNX

For EANs, see page 45



### Presence detector US 360

- 360° ultrasonic presence detector
- US sensor envelops objects but do not pass through them
- 28 m² presence detection zone, ceiling mounting
- COM1, COM2, DIM, DALI-2, LiveLink, KNX

For EANs, see page 45



### Presence Detector IR Quattro MICRO

- 360° infrared presence detector
- 16 m² presence detection zone
- Only Ø 43 mm
- Micro-precision lens, 15 x 15 mm
- Also suitable for rooms exposed to moisture (IP65)
- Adjustable via smart remote
- COM1, DALI-2, KNX

For EANs, see page 45



### Presence switch HF 180

- 180 high-frequency presence switch
- For stair wells, entrance rooms and WC facilities
- 1- 8 m reach in diameter
- The KNX version indicates temperature and air humidity levels measured.
- Adapters for all commonly used 55 mm surrounds
- COM1, COM2, DALI, KNX

For EANs, see page 46

## WC / washroom sensor-switched lights

In WCs and washrooms, sensor-switched lights can really demonstrate their advantages. The sensor integrated in the light even detects movements behind partitions, e.g. in WC cubicles. The high-frequency sensor invented by STEINEL is invisibly integrated into the light and only switches light ON when it is needed. The sensor-switched LED downlighter in particular is the ideal solution for washrooms and WCs!

### Technical advice

Take advantage of the low-cost master/slave interconnection capability to create lighting groups with the RS PRO LED P2/P3.



### Sensor-switched indoor light

#### RS PRO LED S1

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 15W giving up to 1580 lumens, 3000 K or 4000 K
- Optional 10-90% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, switches OFF in relation to daylight

For EANs, see page 52



### Sensor-switched indoor light

#### RS PRO LED P2

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 15W giving up to 1600 lumens, 3000 K or 4000 K
- Optional basic light level 10%
- Also available as emergency light version in compliance with EN 60598-2-22
- Up to 10 lights can be interconnected by cable

For EANs, see page 52



### Sensor-switched indoor light

#### RS PRO LED S2

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 26W giving up to 2600 lumens, 3000 K or 4000 K
- Optional 10% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, switches OFF in relation to daylight

For EANs, see page 52

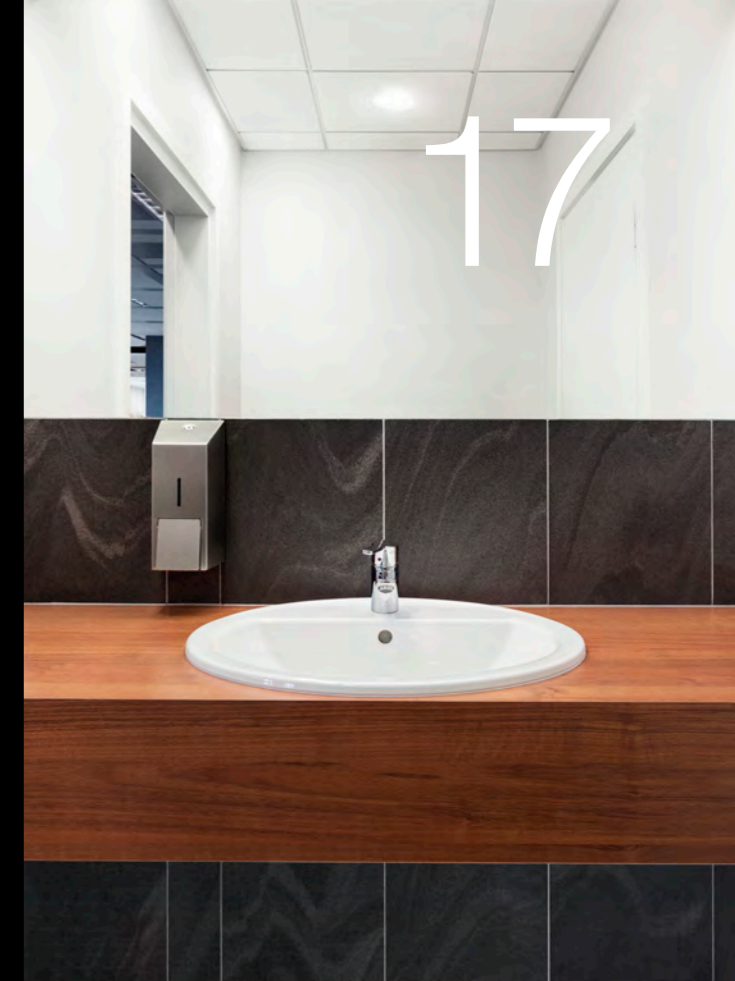


### Sensor-switched indoor light

#### RS PRO LED P3

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 19W giving up to 2000 lumens, 3000 K or 4000 K
- Optional basic light level 10%
- Also available as emergency light version in compliance with EN 60598-2-22
- Up to 10 lights can be interconnected by cable

For EANs, see page 52



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## Side room sensors

Particularly in seldom used side rooms, the light is often left on when there is nobody there. Depending on room type, STEINEL offers you three technologies based on infrared, high-frequency and ultrasonic systems.

### Benefits from STEINEL

- Use the IR Quattro for small to medium-sized rooms
- The HF 360 is the ideal solution where the influence of temperature makes it difficult to detect movement via infrared (e.g. printer rooms)
- The US 360 detects the smallest of movements despite obstacles in the line of sensor vision (e.g. cabinets)
- Using adapter surrounds, the IR 180 can also be integrated into switching programs from Busch-Jaeger, Jung and Feller

### Technical advice

All sensors can also be configured via the optional remote controls.



### Presence detector IR Quattro

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 16 m², ceiling mounting
- COM1, COM2, DIM, DALI, KNX, wireless

For EANs, see page 44



### Presence detector HF 360

- 360° high-frequency presence detector
- HF sensor detects through thin walls and suspended ceilings
- 12 m reach in diameter, ceiling mounting
- COM1, COM2, DIM, DALI, DALI-2, LiveLink, KNX

For EANs, see page 45



### Presence detector US 360

- 360° ultrasonic presence detector
- US sensor envelops objects but do not pass through them
- 28 m² presence detection zone, ceiling mounting
- COM1, COM2, DIM, DALI-2, LiveLink, KNX

For EANs, see page 45



### Presence switch IR 180

- 180° infrared presence switch
- For corridors and passageways in residential and office buildings
- 20 m reach
- The KNX version indicates temperature and humidity levels measured
- Adapters for all commonly used 55 mm surrounds
- Available as 2 and 3-wire option
- COM1, COM2, DALI, KNX

For EANs, see page 46

## Side room sensor-switched lights

Side rooms often have no windows, making them dark when you enter them. This is where you want the light to come ON quickly. Instead, you sometimes have to fumble around to find the switch. Sensor-switched lights from STEINEL are ideal in this situation.

### Benefits from STEINEL

- Invisibly integrated in the light, the high-frequency sensor reliably switches the light ON when anyone enters the room
- High-efficiency STEINEL LED systems on the cutting edge of technology provide contemporary and energy-efficient lighting

### Technical advice

Choose any of the different shades for the RS PRO LED S1: high-quality glass or PC for maximum light output.



### Sensor-switched indoor light

#### RS PRO LED S1

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 15W giving up to 1580 lumens, 3000 K or 4000 K
- Optional 10 - 90% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, switches OFF in relation to daylight

For EANs, see page 52



### Sensor-switched indoor light

#### RS PRO LED P3

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 19W giving up to 2000 lumens, 3000 K or 4000 K
- Optional basic light level 10%
- Also available as emergency light version in compliance with EN 60598-2-22
- Up to 10 lights can be interconnected by cable

For EANs, see page 52



### Sensor-switched indoor light

#### RS PRO LED S2

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 26W giving up to 2600 lumens, 3000 K or 4000 K
- Optional 10% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability, switches OFF in relation to daylight

For EANs, see page 52



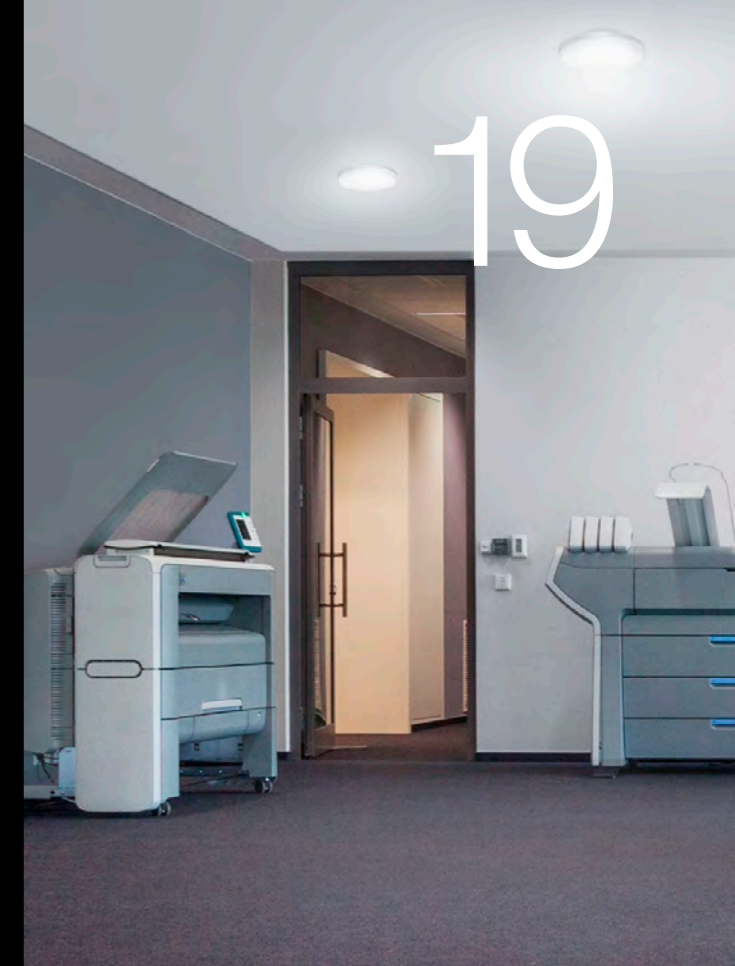
### Sensor-switched indoor light

#### RS PRO Connect 5100 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, Ø 12 m reach
- 30W giving 4206 lumens, 4000 K
- Optional 10 - 50% basic light level, 50 - 100% main light level, presence mode, neighbouring group function
- Wireless interconnection via Bluetooth

For EANs, see page 52

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## Multi-storey / underground car park sensors

We've all seen it – multi-storey car parks are always brightly lit when there's nobody around. This is where on-demand lighting can make huge savings. These areas need to be provided with efficient coverage using just a few sensors. Infrared sensors are very well suited for this job.

### Benefits from STEINEL

- The IS 3360 covers an area of over 1000 m<sup>2</sup> with just one sensor
- At entrances, the HF 3360 is ideal for providing light that switches ON immediately. Because light is switched ON as soon as the sensor detects the door opening.

### Technical advice

All four sensors can be controlled bi-directionally via the Smart Remote.



### Motion detector IS 3360

- 360° infrared motion detector
- Ceiling installation at a height of up to 4 m
- Watches over up to 1,000 m<sup>2</sup>, 20 m reach radius
- 3 pyro sensors, surface-mounted: IP54, concealed: IP20
- Surface-mounted and concealed versions in both round and square designs
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 47



### Motion detector sensIQ

- 300° motion detector for outdoors
- Wall, corner or ceiling mounting
- Three 100° zones and sneak-by guard
- Each zone can be mechanically adjusted from 2-20 m
- Installation at a height of up to 5 m, IP54
- Also available as eNet and KNX version

For EANs, see page 50



### Motion detector IS 3180

- 180° infrared motion detector
- Wall or corner mounting
- Watches over up to 500 m<sup>2</sup>, 20 m reach radius
- 2 pyro sensors, surface-mounted: IP54, concealed: IP20
- Surface-mounted and concealed versions
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 49



### Motion detector HF 3360

- 360° high-frequency motion detector
- 8 m reach in diameter
- Ceiling, wall or corner mounting
- Ideal for entrances
- Surface-mounted and concealed versions in both round and square designs
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 48

## Multi-storey / underground car park sensor-switched lights

To illuminate multi-storey car parts safely, powerful lights are needed that use a lot of energy. In many cases, lighting is switched ON over entire levels without anyone being there. Using STEINEL sensor-switched lights, lighting is switched ON when it is needed, saving a large amount of energy.

### Benefits from STEINEL

- Invisibly integrated in the light, the high-frequency sensor reliably switches the light ON
- Lights can be switched ON and OFF in groups
- Highly efficient STEINEL LED system on the cutting edge of technology
- You are provided with the basic light level option for night-time safety lighting

### Technical advice

To install the RS PRO Connect 5100 LED, you can use existing wiring and drill holes. The lights can be interconnected and adjusted via Bluetooth without the need for cables using the STEINEL app.



### Sensor-switched indoor light

#### RS PRO LED S2 IP65

- LED sensor-switched indoor light
- For rugged applications: IP65, IK10
- 360° high-frequency sensor, Ø 8 m reach
- 26W giving up to 2020 lumens, 3000 K or 4000 K
- Optional 10% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability

For EANs, see page 44



### Sensor-switched indoor light

#### RS PRO LED S1 IP65

- LED sensor-switched indoor light
- For rugged applications: IP65, IK10
- 360° high-frequency sensor, Ø 8 m reach
- 15W giving up to 1213 lumens, 3000 K or 4000 K
- Optional 10–50% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability

For EANs, see page 52



### Sensor-switched indoor light

#### RS PRO LED P3

- LED sensor-switched indoor light
- 360° high-frequency sensor, Ø 8 m reach
- 19W giving up to 2000 lumens, 3000 K or 4000 K
- Optional basic light level 10%
- Also available as emergency light version in compliance with EN 60598-2-22
- Up to 10 lights can be interconnected by cable

For EANs, see page 44



### Sensor-switched indoor light

#### RS PRO Connect 5100 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, Ø 12 m reach
- 30W giving 4206 lumens, 4000 K
- Optional 10–50% basic light level, 50–100% main light level, presence mode, neighbouring group function
- Wireless interconnection via Bluetooth

For EANs, see page 52

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## Sports hall sensors

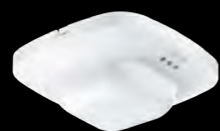
Ceilings in sports halls are often 8 – 10 m high. Detecting movement reliably in environments like this is no easy task. STEINEL has created a convincing solution for this in the form of the IR Quattro HD.

### Benefits from STEINEL

- The IR Quattro HD guarantees reliable detection from a ceiling height of up to 10 m
- With its four pyro sensors, it effortlessly covers an area of up to 1,300 m<sup>2</sup> when installed at a height of 10 m
- True Presence provides a detection zone of no less than an unprecedented 177 m<sup>2</sup> – even from a height of up to 12 m

### Technical advice

The additional guard cage protects the sensor from ball damage and vandalism.



### Presence detector IR Quattro HD

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 64 m<sup>2</sup>
- Ceiling installation at a height of up to 10 m
- COM1, COM2, DIM, DALI, DALI plus, DALI-2, LiveLink, KNX

For EANs, see page 44



### Motion detector IS 3360

- 360° infrared motion detector
- Ceiling installation at a height of up to 4 m
- Watches over up to 1,000 m<sup>2</sup>, 20 m reach radius
- 3 pyro sensors, surface-mounted: IP54, concealed: IP20
- Surface-mounted and concealed versions in both round and square designs
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 47



### Presence detector True Presence

- Never makes mistakes detecting human presence
- Micro-movements from breathing are enough
- Reliable absence detection
- 64 m<sup>2</sup> True Presence® detection, 177 m<sup>2</sup> presence and motion detection
- Detection zone adjustable with digital precision
- New, unique design
- 2 - 12 m mounting height
- COM1, COM2, DALI, KNX (concealed installation only)

For EANs, see page 44



### Motion detector IS 3360 MX Highbay

- 360° infrared ceiling sensor
- For large halls or entrances
- Ceiling installation at a height of up to 14 m
- 18 m reach radius
- Square surface-mounted and concealed versions
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 48

## Equipment room sensors / sensor-switched lights

Equipment rooms in schools or other facilities, such as exercise studios, are rooms in which lighting is often left ON unused.

### Benefits from STEINEL

- The ultrasonic sensor US 360 is ideal for irregularly shaped rooms, such as changing rooms with lockers, as ultrasonic waves propagate throughout the room
- The infrared sensor IS 3360 is the perfect solution for large, open spaces
- As impact-resistant sensor-switched lights with integrated HF sensor, the RS PRO Connect 5100 LED and RS PRO LED S1 IP 65 are equipped for the toughest of applications

### Technical advice

With all STEINEL indoor lights, the push-in shrouds supplied with them let you mask out specific areas of the detection zone very easily.



### Presence detector US 360

- 360° ultrasonic presence detector
- US sensor envelops objects but do not pass through them
- 28 m<sup>2</sup> presence detection zone, ceiling mounting
- COM1, COM2, DIM, DALI-2, LiveLink, KNX

For EANs, see page 45



### Sensor-switched indoor light RS PRO Connect 5100 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, Ø 12 m reach
- 30W giving 4206 lumens, 4000K
- Optional 10 - 50% basic light level, 50 - 100% main light level, presence mode, neighbouring group function
- Wireless interconnection via Bluetooth

For EANs, see page 52



### Motion detector IS 3360

- 360° infrared motion detector
- Watches over up to 1,000 m<sup>2</sup>, 20 m reach radius
- Ceiling installation at a height of up to 4 m
- 3 pyro sensors, surface-mounted: IP54, concealed: IP20
- Surface-mounted and concealed versions in both round and square designs
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 47



### Sensor-switched indoor light RS PRO LED S1 IP65

- LED sensor-switched indoor light
- For rugged applications: IP65, IK10
- 360° high-frequency sensor, Ø 8 m reach
- 15W giving up to 1213 lumens, 3000K or 4000K
- Optional 10 - 50% basic light level, presence mode, neighbouring group function, bi-directional wireless interconnection capability

For EANs, see page 52

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## High-bay warehouse sensors

In high-bay warehouses, ceilings of up to 14 m in height place exacting demands on the sensor technology. On the one hand, it must reliably detect movements from these heights. On the other, it must only detect movement in the particular aisle it covers. Infrared is the only technology suitable for these heights.

### Benefits from STEINEL

- For large expanses and ceilings as high as 10 m we recommend the IR Quattro HD for covering areas of up to 1,300 m<sup>2</sup> with just one sensor
- For warehouse aisles, STEINEL offers the IS 345 MX Highbay with a reach of 30 m per aisle
- The IS 3360 MX Highbay with a mounting height of up to 14 m is particularly suitable for warehouses

### Technical advice

The sensors can be interconnected for covering even larger areas.



### Motion detector IS 345 MX Highbay

- Infrared corridor sensor
- High-bay warehouse and aisles
- Ceiling installation at a height of up to 14 m
- Detection zone 30 m long and 4 m wide
- Lens specifically geared to corridors
- Square surface-mounted and concealed versions
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 49



### Presence detector IR Quattro HD

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 64 m<sup>2</sup>
- Ceiling installation at a height of up to 10 m
- COM1, COM2, DIM, DALI, DALI plus, DALI-2, LiveLink, KNX

For EANs, see page 44



### Presence detector True Presence

- Never makes mistakes detecting human presence
- Micro-movements from breathing are enough
- Reliable absence detection
- 64 m<sup>2</sup> True Presence® detection, 177 m<sup>2</sup> presence and motion detection
- Detection zone adjustable with digital precision
- New, unique design
- 2-12 m mounting height
- COM1, COM2, DALI, KNX (concealed installation only)

For EANs, see page 44



### Motion detector IS 3360 MX Highbay

- 360° infrared motion detector
- For large halls or entrances
- Ceiling installation at a height of up to 14 m
- 18 m reach radius
- Square surface-mounted and concealed versions
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 48

## Warehouse sensor-switched lights

Almost all warehouse facilities are illuminated by artificial light and in most cases lighting is left on all the time during working hours, even though it is only needed for short periods. Using STEINEL sensor-switched lights, the light is only switched ON when it's needed. Otherwise it is off or can be dimmed to a stand-by mode. In short – using automatic lighting in warehouses can produce very high potential savings.

### Benefits from STEINEL

- Invisibly integrated in the light, the high-frequency sensor reliably switches the light ON, lights can be switched ON and OFF in groups
- Highly efficient STEINEL LED systems on the cutting edge of technology
- All lights are also available in a slave version

### Technical advice

Benefiting from its neighbouring-light function, the RS PRO Connect 5100 LED is capable of providing preceding and accompanying light for more safety and convenience.



### Sensor-switched indoor light RS PRO Connect 5100 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, Ø 12 m reach
- 30W giving 4206 lumens, 4000K
- Optional 10 - 50% basic light level, 50-100% main light level, presence mode, neighbouring group function
- Wireless interconnection via Bluetooth

For EANs, see page 52



### Sensor-switched indoor light RS PRO Connect 5100 LED Emergency Light

- Sensor-switched LED diffuser luminaire
- Available as emergency light version with 3 hours of emergency lighting in compliance with EN 60598-2-22
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, Ø 8 m reach
- 30W giving 4206 lumens, 4000K
- Optional 10 - 50% basic light level, 50-100% main light level, presence mode, neighbouring group function
- Wireless interconnection via Bluetooth

For EANs, see page 52

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## Outdoor sensors

### Private residential buildings

In private residential buildings, the main reason for using motion detectors is safety and convenience. Whether on the driveway or at the front door – lighting needs to switch ON reliably when anyone approaches the house.

### Benefits from STEINEL

- STEINEL offers sensors with an angle of coverage of up to 300 degrees for mounting on the wall, ceiling or on building corners
- Its slim-line and compact design makes the IS 2180-2 very inconspicuous as it reliably watches over outdoor areas across an angle of 180 degrees
- The sensIQ S is divided into three 100-degree zones, with each zone being separately adjustable in reach

### Technical advice

The iHF 3D technology suppresses inadvertent triggering by small animals and permits precision electronic adjustment of the detection zone in 3 directions over a maximum reach of 7 m.



### Motion detector iHF 3D

- 160° high-frequency sensor for outdoors
- Max. reach 1-7 m, precision-adjustable in 3 directions
- Detects movement equally well from whichever direction it is approached from
- No inadvertent triggering by small animals
- Also available as a KNX version

For EANs, see page 50



### Motion detector sensIQ S

- 300° motion detector for outdoors
- Wall or corner mounting
- Three 100° zones and sneak-by guard
- Each zone can be mechanically adjusted from 2-20 m
- Installation at a height of up to 5 m, IP54
- Including corner wall mount and remote control
- Also available as a KNX version

For EANs, see page 50



### Motion detector IS 2180-2

- 180° infrared motion detector for outdoors
- Watches over up to 200 m², 12 m reach radius
- 2 pyro sensors
- Compact design fits close to the wall

For EANs, see page 50



### Motion detector IS 3180

- 180° infrared motion detector
- Wall or corner mounting
- Watches over up to 500 m², 20 m reach radius
- 2 pyro sensors, surface-mounted: IP54, concealed: IP20
- Surface-mounted and concealed versions
- COM1, PF, DALI, DALI-2, LiveLink, KNX

For EANs, see page 49



### Motion detector sensIQ

- 300° motion detector for outdoors
- Wall, corner or ceiling mounting
- Three 100° zones and sneak-by guard
- Each zone can be mechanically adjusted from 2-20 m
- Installation at a height of up to 5 m, IP54
- Including corner wall mount and remote control
- Also available as eNet and KNX version

For EANs, see page 50

## Outdoor sensors

### Commercial buildings

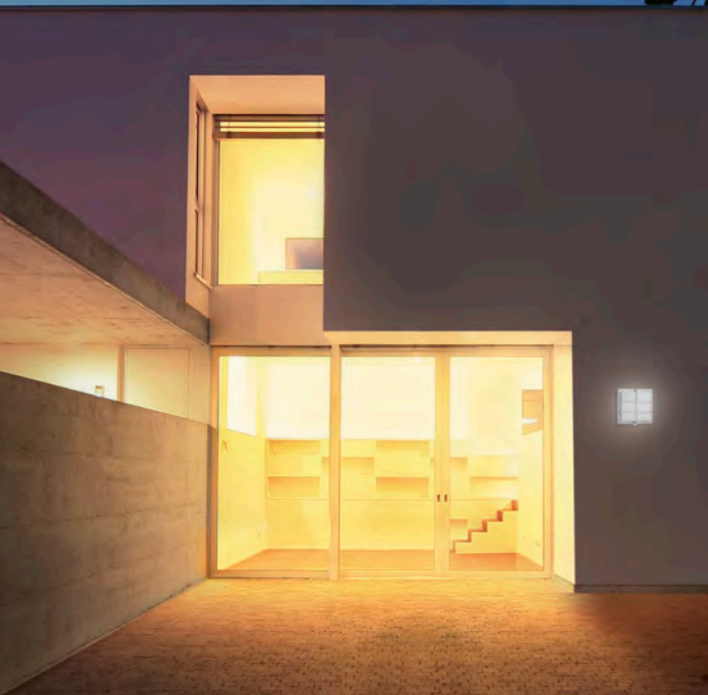
The outdoor areas around commercial buildings are among the fields in which sensors are most frequently used. This is where the main focus is on security and efficiency in illuminating large areas.

### Benefits from STEINEL

- The sensIQ can be installed at a height of up to 5 m, either on the wall, on the ceiling or on corners
- The IS 3180 can watch over outdoor areas of up to 500 m²
- Besides high-resolution infrared detectors, STEINEL is the only manufacturer to offer iHF technology that opens up completely new options in detecting movement outdoors

### Technical advice

Wherever possible, install infrared sensors so they are aimed across the direction walking in order to obtain optimum detection results.



### Sensor-switched outdoor light

#### L 690 LED

- LED sensor-switched outdoor light
- 360° infrared sensor, 7 m reach
- 9W LED light system, 753 lm
- Optional basic light level 10%, soft start
- Four intelligent basic light-level programs
- Front of the light provides the optimum surface for affixing the house numbers supplied with it
- Up to 10 lights can be interconnected by cable

For EANs, see page 53



### Sensor-switched outdoor light

#### L 330 LED

- LED sensor-switched outdoor light
- 360° infrared sensor, 7 m reach
- 9W LED light system, 753 lm
- Optional basic light level 10%, soft start
- Four intelligent basic light-level programs
- Up to 10 lights can be interconnected by cable

For EANs, see page 53



### Sensor-switched outdoor light

#### L 691 LED

- LED sensor-switched outdoor light
- 360° infrared sensor, 7 m reach
- 9W LED light system, 753 lm
- Optional basic light level 10%, soft start
- Four intelligent basic light-level programs
- Up to 10 lights can be interconnected by cable

For EANs, see page 53



### Sensor-switched outdoor light

#### L 331 LED

- LED sensor-switched outdoor light
- 360° infrared sensor, 7 m reach
- 9W LED light system, 753 lm
- Optional basic light level 10%, soft start
- Four intelligent basic light-level programs
- Up to 10 lights can be interconnected by cable

For EANs, see page 53

## Outdoor sensor-switched lights

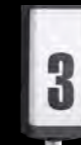
Sensor-switched LED lights for outdoors. The capability of interconnecting light by cable always gives you a consistent pattern of lighting around the entire property.

### Benefits from STEINEL

- The mini-sensor can simply be removed from the light to facilitate configuration
- Thanks to its 4 individually adjustable sensors, the DL Vario Quattro PRO LED can be matched perfectly to needs, reducing inadvertent triggering
- The intelligent high-frequency technology in the L 825 LED manages without any visible sensor

### Technical advice

The L 825 LED iHF is easily and conveniently set and interconnected via Bluetooth using the STEINEL app. As a result, parameters are quickly readjusted.



### Sensor-switched outdoor light

#### L 666 LED

- LED sensor-switched outdoor light
- 360° infrared sensor, 7 m reach
- 9W LED light system, 750 lm
- Optional basic light level 10%, soft start
- Four intelligent basic light-level programs
- Front of the light provides the optimum surface for affixing the house numbers supplied with it
- Up to 10 lights can be interconnected by cable

For EANs, see page 53



### Sensor-switched outdoor light

#### DL Vario Quattro PRO LED

**World first: the light diffuser with a patented honeycomb structure also acts as the sensor lens.**

- LED sensor-switched outdoor light
- 360° infrared sensor, 2-8 m reach
- 14W LED light system, 1430 lm, 3000 K or 4000 K
- Optional basic light level 10%, soft start
- Up to 10 lights can be interconnected by cable

For EANs, see page 53



### Sensor-switched outdoor light

#### L 665 LED

- LED sensor-switched outdoor light
- 360° infrared sensor, 7 m reach
- 9W LED light system, 750 lm
- Optional basic light level 10%, soft start
- Four intelligent basic light-level programs
- Front of the light provides the optimum surface for affixing the house numbers supplied with it
- Up to 10 lights can be interconnected by cable

For EANs, see page 53



### Sensor-switched outdoor light

#### L 825 LED iHF

- LED sensor-switched outdoor light
- 360° intelligent high-frequency sensor, 5 m reach
- 12W LED light system, 770 lm
- Optional basic light level 10%, soft start
- Interconnection and start-up all very convenient by Bluetooth and STEINEL app

For EANs, see page 53



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## Outdoor sensor-switched floodlights

Without using motion detectors, illuminating large outdoor areas uses a lot of energy. Only by using motion detectors can lighting be controlled intelligently and activated on demand. Particularly on drives and at the back of buildings, sensor-switched floodlights are a popular choice for installing as a security measure.

### Benefits from STEINEL

- The XLED PRO Square and Wide offer two light output levels of an impressive 4400 and 2400 lumens
- Light pattern aimed for illuminating rectangular (Wide) or square (Square) areas along buildings
- These floodlights feature a fully tilting and rotating flat-design light head, 3% linear basic light level and active LED cooling system

### Technical advice

You can increase the illuminated area by interconnecting these floodlights with slave versions.



### Sensor-switched floodlight XLED PRO Wide

- High-power sensor-switched LED floodlight
- 240° infrared sensor with 12 m reach
- 24.8 W giving 2400 lumens
- 48 W giving 4400 lumens (XL version)
- 3% linear basic light level
- Mounting height up to 6 m
- Available as slave and eNet versions

For EANs, see page 53



### Sensor-switched floodlight XLED PRO 240

- High-power sensor-switched LED floodlight
- 240° infrared sensor with 12 m reach
- 20 W giving 1830 lumens
- Mounting height up to 6 m
- Fully swivelling LED panel
- Includes corner wall mount
- Slave version available

For EANs, see page 53



### Sensor-switched floodlight XLED PRO Square

- High-power sensor-switched LED floodlight
- 240° infrared sensor with 12 m reach
- 24.8 W giving 2400 lumens
- 48 W giving 4400 lumens (XL version)
- 3% linear basic light level
- Mounting height up to 6 m
- Available as slave and eNet versions

For EANs, see page 53

## Smart Remote One for all

STEINEL sensors and sensor-switched lights are very easy to control via remote control and the associated app. For this, a smartphone or tablet is placed on the Smart Remote and connected via Bluetooth. An infrared interface permits communication with the sensors and lights. It doesn't get any smarter than that!

### Benefits from STEINEL

- The Smart Remote and associated app always give you the right remote control
- Replaces remote controls RC1 - RC10
- Available for iOS and Android

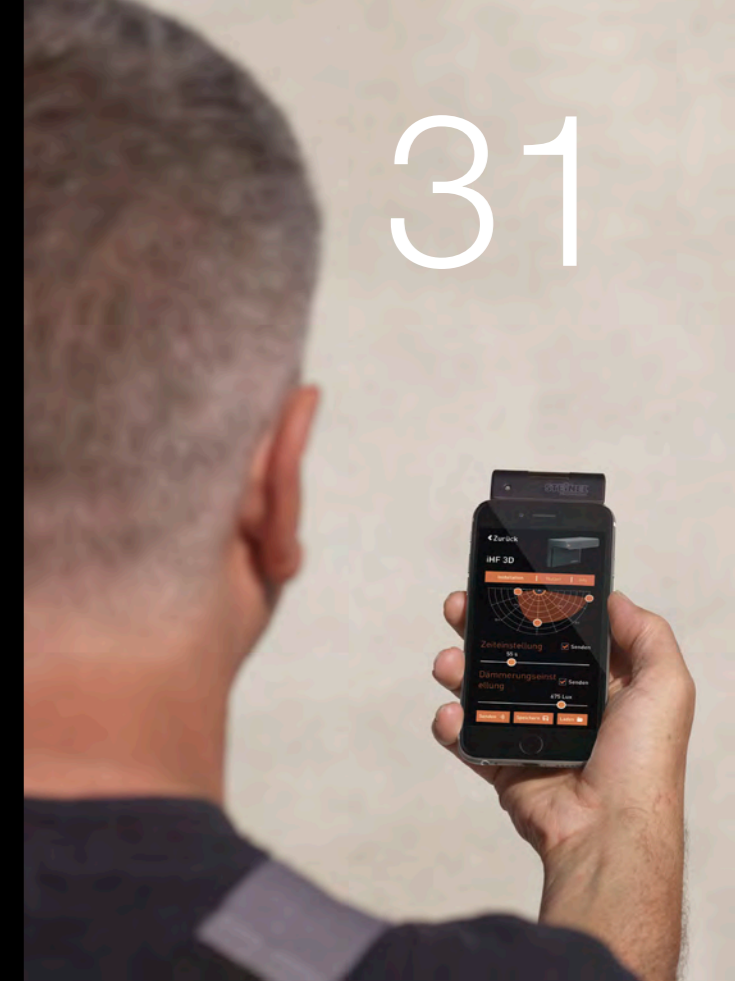


### Remote control Smart Remote

Settings are made conveniently via a smartphone or tablet. A universal remote control that replaces the RC1 - RC10.

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### The STEINEL App. Control by Bluetooth.

The STEINEL app can also be used without Smart Remote for controlling Bluetooth-capable luminaires. The makes it easy and convenient to make all sensor and lighting settings. We are constantly expanding our range of Bluetooth-capable luminaires.



## The world's largest KNX range

Home and building automation "speaks" KNX. There are millions of successful KNX installations across Europe and worldwide. With the largest sensor range worldwide, STEINEL provides the "sensory organs" for KNX. The sensor technologies we offer - passive infrared, high frequency, ultrasonic and camera sensor technology - are available in many highly practical sensor versions. This means STEINEL can give you the right sensor for any application. We are not just a partner for KNX, but also for planners, architects and electrical fitters. With them, we seek dialogue for ideas and suggestions from practical experience.

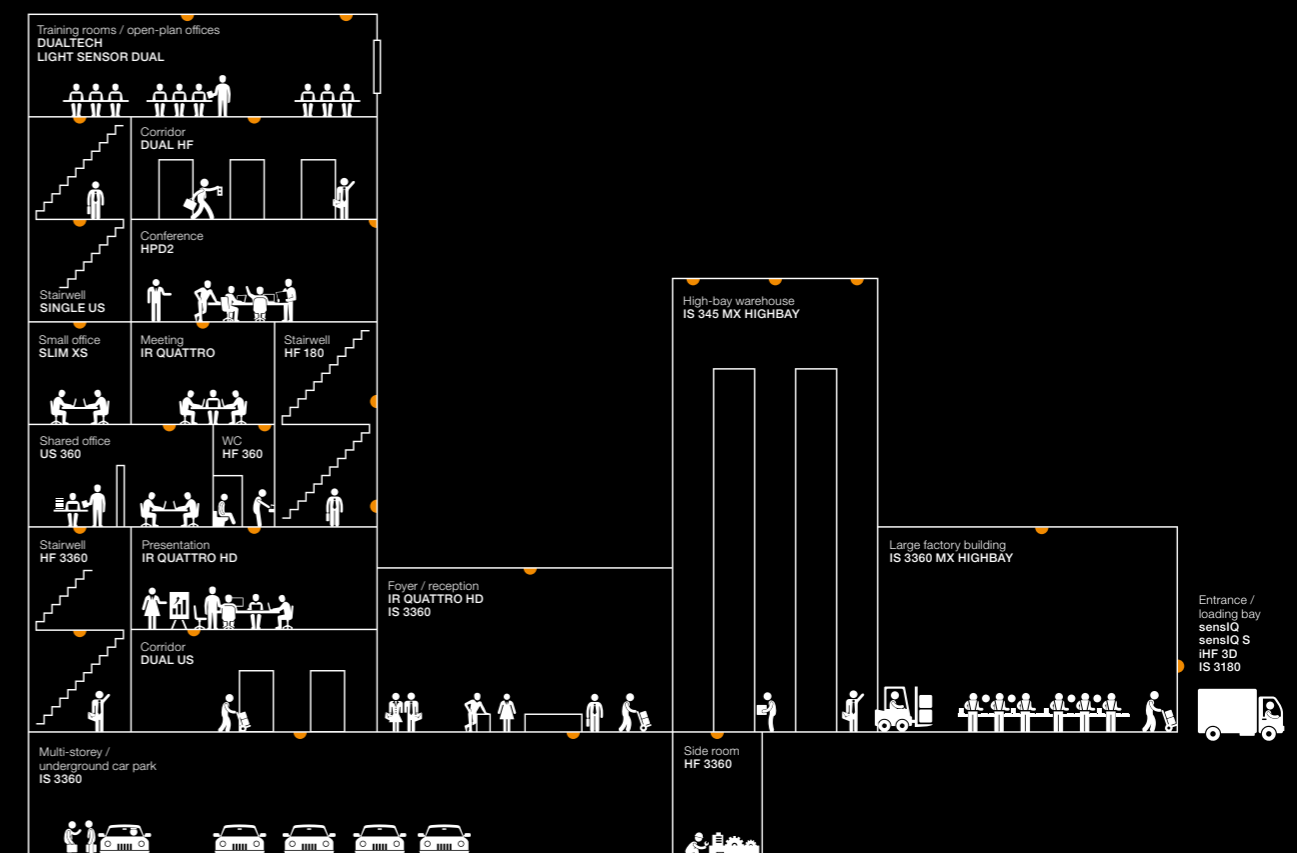
### Benefits from STEINEL

- Tailored room solutions using various sensor technologies: passive infrared, ultrasonic, high frequency and camera sensors.
- Seamless integration into existing installations

### Technical advice

Application descriptions and software at [knx.steinell.de](http://knx.steinell.de).

You will find all details on STEINEL's KNX sensors in our separate KNX brochure.





## Light management, revolutionarily simple. Now new with: Human Centric Lighting (HCL)

LiveLink is the new DALI-based light management system developed by STEINEL in cooperation with the lighting specialist TRILUX. What used to be very complex and time-consuming can now be configured with LiveLink in just a few minutes without any specialist knowledge or programming experience. Operation is simple and intuitive via tablet or smartphone. The LiveLink app assists you step by step through the installation process. Common application scenarios, such as in an office or classroom, are stored as so-called use cases and make planning particularly simple. Special, highly sensitive LiveLink sensors from STEINEL permit precision lighting control in line with room use and the prevailing level of daylight.

This means it provides electrical fitters and users with professional and yet simple and secure access to the possibilities of lighting control. Almost every segment and application can benefit from LiveLink because it caters to any scenario and standard.

### Now with Human Centric Lighting (HCL)

Artificial lighting that follows natural characteristics in terms of changing brightness and colours can have a positive effect on effectiveness and concentration of the individuals. Human Centric Lighting (HCL) is now also available for LiveLink and complements the light management system with a further important feature.

### Benefits from STEINEL

- LiveLink sensors with infrared, high-frequency and ultrasonic technology
- Fast, easy start-up via app
- An integrated, autonomous Wi-Fi network provides optimum connection and security

### Technical advice

The Connect control box also makes it possible to interconnect several control boxes in a master-slave network.





## DALI plus

# The gateway to intelligent lighting control.

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Integrating a complete control unit into the load section of a sensor has enabled us to combine the key functions for DALI-based lighting control for straightforward installation and use. This provides an easy, fast and cost-effective way of providing solutions for many different applications. DALI plus – developed for everyone wanting to create and quickly implement innovative lighting management.

For classrooms, cubicle areas or single offices: Our DALI plus solution is both easy to use and effective. With intelligent sensors that come with a complete lighting control module. The control unit fitted in the load section makes installation both fast and easy. Using the Smart Remote, you can control up to 64 luminaires via 3 lighting channels by app. DALI plus is

the ideal solution for anyone wishing to plan and install intelligent lighting with just a few components.

### Benefits from STEINEL

- perfect IR Quattro HD detection
- 64 DALI electronic ballasts in 5 groups
- Surface-mounted and in-ceiling version

### Technical advice

In classrooms or offices, large windows produce different light levels in the room. The sensor automatically dims lighting as the daylight component increases.





## The interface for intelligent lighting

DALI (Digital Addressable Lighting Interface) offers almost boundless potential. Lighting control, sensors, electronic control gear and lights work exceptionally well with the professional interface standard. They communicate with each other and respond to each other without any obstacle whatsoever. In conjunction with constant-lighting control via 2 light channels, STEINEL DALI presence detectors provide optimum control for strip lighting in relation to incident daylight. With the RS PRO 5800 LED range, STEINEL also presents advanced LED diffuser luminaires with swarm intelligence. Communicating via the DALI bus, swarm technology lets light 'move along' with you.

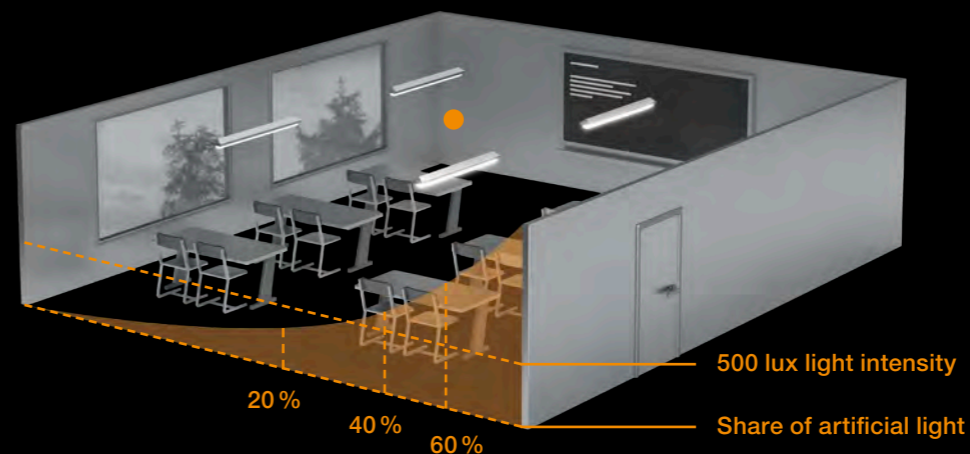
### Benefits from STEINEL

- The STEINEL DALI range currently features 14 sensors and 2 lights

### Technical advice

In classrooms or offices, large windows produce different light levels in the room. The sensor automatically dims lighting as the daylight component increases.

### Constant-lighting control for efficient lighting management.





## DALI-2

### The new benchmark.


Among other aspects, the new DALI-2 standard provides the basis for standardising sensor communication in DALI systems. This ensures compatibility among all brands. DALI-2 enables sensors to communicate collected sensor data to higher-level lighting management systems. This means 64 lights and 64 sensors can be matched to the lighting or building management facility with a good level of flexibility. They are also easy to assign to usage zones via lighting or building management.

#### Benefits from STEINEL

- STEINEL PROFESSIONAL offers a wide range of DALI-2 input device sensors for every application.

#### Technical advice

Pay attention to the power consumption of the DALI sensors. A sensor may require more than 2 mA (1 user).



# Spot on rather than a rough estimate. STEINEL planning tools. 43

## PROLog

The PROLog planning tool answers the question: how much energy can intelligent sensor technology save in our particular project?

Easy to use, the PROLog planning tool tells you precisely the amount of energy you can save in a building. For you this means: spot on rather than a rough estimate. Overwhelming example calculations and generalisations are often far off the mark, leaving you to think you can save far more than is actually possible. PROLog from STEINEL puts an end to guesswork and calculates exactly how much energy intelligent sensor technology can save for a particular building.

PROLog records user behaviour as well as the level of light in a room and takes this as the basis for calculating the energy / lighting that is being wasted. This way, user behaviour determines the potential saving. Our PROLog, together with the PROLog software, gives you a comprehensive instrument to plan your lighting needs: it measures the exact amount of energy being wasted and calculates actual savings for a specific situation.

And the result? An objective basis that perfectly controls the lighting a building actually needs. Simply intelligent.

## RELUX®

Do you want direct access to our comprehensive collection of lighting and sensor data for planning the perfect solution? This software not only provides you with all the data for planning lighting and lights from STEINEL, but also for accurately configuring the detection zone of our sensors - including visual displays. Available for download at [www.relux.ch](http://www.relux.ch)

## DIALux

With our vast experience in planning lighting, you can be sure of getting professional results every time. Our expertise combined with free, all-inclusive software gives you a level of efficiency that delivers results you can be proud of. DIALux constantly offers you support with all lighting data and in meeting national and international guidelines, calculates your particular energy requirement and displays your planning results in photo-realistic quality. Having been geared specifically to practical needs, this software has been used by hundreds of thousands of lighting planners across the world.

The light planning and visualisation data is exclusively available to STEINEL Professional clients for on-line plug-in use in DIALux. Light distribution curves, technical specifications and 3D volumetric data are available for downloading from [www.dial.de](http://www.dial.de).

### Free planning service

- PROLog / DIALux / Relux
- Phone: +49 (0) 52 45 / 448 307
- Fax: +49 (0) 52 45 / 448 308
- E-mail: [objekte@steinel.de](mailto:objekte@steinel.de)

# Summary of sensors

## TruePresence®



True Presence COM1, concealed installation.....	EAN 4007841 057923.....	13, 14, 15, 22, 24
True Presence COM2, concealed installation ...	EAN 4007841 057947.....	13, 14, 15, 22, 24
True Presence DALI, concealed installation.....	EAN 4007841 057961.....	13, 14, 15, 22, 24
True Presence KNX, concealed installation .....	EAN 4007841 056339.....	13, 14, 15, 22, 24
True Presence COM1, surf.-mounted inst.....	EAN 4007841 057916.....	13, 14, 15, 22, 24
True Presence COM2, surf.-mounted inst.....	EAN 4007841 057930.....	13, 14, 15, 22, 24
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IR Quattro COM1 .....	EAN 4007841 000349 .....	10, 18
IR Quattro COM1 AP.....	EAN 4007841 592301 .....	10, 18
IR Quattro COM2 .....	EAN 4007841 000356 .....	10, 18
IR Quattro DIM .....	EAN 4007841 002718 .....	10, 18
IR Quattro DALI .....	EAN 4007841 002749 .....	10, 18
IR Quattro KNX .....	EAN 4007841 008772.....	10, 18



IR Quattro HD COM1 .....	EAN 4007841 002794.....	11, 14, 15, 22, 24
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IR Quattro HD DIM .....	EAN 4007841 002787.....	11, 14, 15, 22, 24
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IR Quattro HD DALI plus (concealed inst.) .....	EAN 4007841 035204.....	11, 14, 15, 22, 24



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IR Quattro SLIM XS COM1, square.....	EAN 4007841 032951 .....	10
IR Quattro SLIM XS DALI-2, square.....	EAN 4007841 057510 .....	10
IR Quattro SLIM XS KNX, square .....	EAN 4007841 033033.....	10
IR Quattro SLIM XS LiveLink, square.....	EAN 4007841 033040.....	10
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US 360 KNX.....	EAN 4007841 029463.....	11, 14, 16, 18, 23
US 360 LiveLink .....	EAN 4007841 008444 .....	11, 14, 16, 18, 23











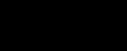
Single US COM1 .....	EAN 4007841 007966.....	8
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Single US DIM .....	EAN 4007841 007980.....	8
Single US DALI-2.....	EAN 4007841 057503 .....	8
Single US KNX.....	EAN 4007841 029487 .....	8
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	IR 180 UNIVERSAL (2-wire), silver .....	EAN 4007841 033132 .....	6, 18
	IR 180 UNIVERSAL (2-wire), anthracite .....	EAN 4007841 055943 .....	6, 18
	IR 180 (3-wire) COM1, white .....	EAN 4007841 029944 .....	6, 18
	IR 180 (3-wire) COM2, white .....	EAN 4007841 033002 .....	6, 18
	IR 180 (3-wire) DALI, white .....	EAN 4007841 033026 .....	6, 18
	IR 180 (3-wire) KNX, white .....	EAN 4007841 032975 .....	6, 18
	IR 180 (3-wire) COM1, silver .....	EAN 4007841 032982 .....	6, 18
	IR 180 (3-wire) COM2, silver .....	EAN 4007841 032999 .....	6, 18
	IR 180 (3-wire) DALI, silver .....	EAN 4007841 033019 .....	6, 18
	IR 180 (3-wire) KNX, silver .....	EAN 4007841 032968 .....	6, 18
	IR 180 (3-wire) COM1, anthracite .....	EAN 4007841 055950 .....	6, 18
	IR 180 (3-wire) COM2, anthracite .....	EAN 4007841 055967 .....	6, 18
	IR 180 (3-wire) DALI, anthracite .....	EAN 4007841 055974 .....	6, 18
	IR 180 (3-wire) KNX, anthracite .....	EAN 4007841 055981 .....	6, 18
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	HF 180 (3-wire) DALI, white .....	EAN 4007841 032937 .....	8, 16
	HF 180 (3-wire) KNX, white .....	EAN 4007841 032876 .....	8, 16
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	HF 180 (3-wire) PF, silver .....	EAN 4007841 032906 .....	8, 16
	HF 180 (3-wire) DALI, silver .....	EAN 4007841 032920 .....	8, 16
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	HF 180 (3-wire) COM1, anthracite .....	EAN 4007841 055998 .....	8, 16
	HF 180 (3-wire) PF, anthracite .....	EAN 4007841 056001 .....	8, 16
	HF 180 (3-wire) DALI, anthracite .....	EAN 4007841 056018 .....	8, 16
	HF 180 (3-wire) KNX, anthracite .....	EAN 4007841 056025 .....	8, 16

## Motion detectors

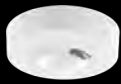
	IS 3360 COM1, surf.-mounted inst., square.....	EAN 4007841 010478 .....	20, 22, 23
	IS 3360 PF, surf.-mounted inst., square.....	EAN 4007841 010515 .....	20, 22, 23
	IS 3360 DALI, surf.-mounted inst., square.....	EAN 4007841 010560 .....	20, 22, 23
	IS 3360 DALI-2, surf.-mounted inst., square.....	EAN 4007841 057237 .....	20, 22, 23
	IS 3360 LiveLink, surf.-mounted inst., square...	EAN 4007841 049362 .....	20, 22, 23
	IS 3360 KNX, surf.-mounted inst., square .....	EAN 4007841 058166 .....	20, 22, 23
	IS 3360 COM1, surf.-mounted inst., round .....	EAN 4007841 033446 .....	20, 22, 23
	IS 3360 PF, surf.-mounted inst., round .....	EAN 4007841 033477 .....	20, 22, 23
	IS 3360 DALI, surf.-mounted inst., round .....	EAN 4007841 033507 .....	20, 22, 23
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	IS 3360 LiveLink surf.-mounted inst., round ....	EAN 4007841 049386 .....	20, 22, 23
	IS 3360 KNX, surf.-mounted inst., round .....	EAN 4007841 058180 .....	20, 22, 23
	IS 3360 COM1, concealed installation, square .	EAN 4007841 033460 .....	20, 22, 23
	IS 3360 PF, concealed installation, square .....	EAN 4007841 033491 .....	20, 22, 23
	IS 3360 DALI, concealed installation, square....	EAN 4007841 033514 .....	20, 22, 23
	IS 3360 DALI-2, concealed installation, square	EAN 4007841 057244 .....	20, 22, 23
	IS 3360 LiveLink, concealed inst., square .....	EAN 4007841 049379 .....	20, 22, 23
	IS 3360 KNX, concealed installation, square....	EAN 4007841 058173 .....	20, 22, 23
	IS 3360 COM1, concealed installation, round...	EAN 4007841 033453 .....	20, 22, 23
	IS 3360 PF, concealed installation, round.....	EAN 4007841 033484 .....	20, 22, 23
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	IS 3360 DALI-2, concealed installation, round ..	EAN 4007841 057268 .....	20, 22, 23
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	IS 345 COM1, surf.-mounted inst., square.....	EAN 4007841 010485 .....	6
	IS 345 PF, surf.-mounted inst., square.....	EAN 4007841 010539 .....	6
	IS 345 DALI, surf.-mounted inst., square.....	EAN 4007841 010584 .....	6
	IS 345 DALI-2, surf.-mounted inst., square.....	EAN 4007841 057275 .....	6
	IS 345 LiveLink, surf.-mounted inst., square.....	EAN 4007841 049416 .....	6
	IS 345 KNX, surf.-mounted inst., square .....	EAN 4007841 058258 .....	6
	IS 345 COM1, surf.-mounted inst., round .....	EAN 4007841 033798 .....	6
	IS 345 PF, surf.-mounted inst., round .....	EAN 4007841 033828 .....	6
	IS 345 DALI, surf.-mounted inst., round .....	EAN 4007841 033859 .....	6
	IS 345 DALI-2, surf.-mounted inst., round .....	EAN 4007841 057299 .....	6
	IS 345 LiveLink, surf.-mounted inst., round ....	EAN 4007841 049430 .....	6
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	IS 345 COM1, concealed installation, square ..	EAN 4007841 033804 .....	6
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	IS 345 KNX, concealed installation, round .....	EAN 4007841 058289 .....	6

# Summary of sensors

## Motion detectors



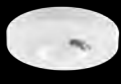
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HF 3360 PF, surf.-mounted inst., square .....EAN 4007841 010546..... 8, 20  
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HF 3360 DALI-2, surf.-mounted inst., square ...EAN 4007841 057312 ..... 8, 20  
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HF 3360 COM1, surf.-mounted inst., round.....EAN 4007841 033668..... 8, 20  
HF 3360 PF, surf.-mounted inst., round.....EAN 4007841 033699..... 8, 20  
HF 3360 DALI, surf.-mounted inst., round .....EAN 4007841 033736..... 8, 20  
HF 3360 DALI-2, surf.-mounted inst., round .....EAN 4007841 057329..... 8, 20  
HF 3360 LiveLink, surf.-mounted inst., round ...EAN 4007841 055639..... 8, 20  
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HF 3360 COM1, concealed inst., square.....EAN 4007841 033675..... 8, 20  
HF 3360 PF, concealed installation, square .....EAN 4007841 033705..... 8, 20  
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HF 3360 DALI-2, concealed inst., square .....EAN 4007841 057336..... 8, 20  
HF 3360 LiveLink, concealed inst., square.....EAN 4007841 055622..... 8, 20  
HF 3360 KNX, concealed installation, square...EAN 4007841 058227 ..... 8, 20



HF 3360 COM1, concealed inst., round .....EAN 4007841 033682..... 8, 20  
HF 3360 PF, concealed installation, round .....EAN 4007841 033712 ..... 8, 20  
HF 3360 DALI, concealed installation, round....EAN 4007841 033750..... 8, 20  
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IS 3180 PF, concealed installation, square.....EAN 4007841 055769 . 20, 27  
IS 3180 DALI, concealed installation, square.....EAN 4007841 055745.. 20, 27  
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Light Sensor Dual DALI-2, surface-mounted installation, square ..... EAN 4007841 057428  
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NM 5000-3 COM1, white .....EAN 4007841 011697  
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sensIQ, black .....	EAN 4007841 029579.....	20, 27
sensIQ KNX, white .....	EAN 4007841 029593 .....	20, 27
sensIQ KNX, stainless steel.....	EAN 4007841 029616.....	20, 27
sensIQ KNX, anthracite .....	EAN 4007841 056643.....	20, 27
sensIQ KNX, black .....	EAN 4007841 029609.....	20, 27
sensIQ eNet, white .....	EAN 4007841 020439.....	20, 27
sensIQ eNet, stainless steel.....	EAN 4007841 020422.....	20, 27
sensIQ eNet, black.....	EAN 4007841 020415 .....	20, 27



sensIQ S, white .....	EAN 4007841 034955.....	26
sensIQ S, stainless steel.....	EAN 4007841 034962.....	26
sensIQ S, anthracite .....	EAN 4007841 056650.....	26
sensIQ S, black.....	EAN 4007841 034979.....	26
sensIQ S KNX, white .....	EAN 4007841 004064 .....	26
sensIQ S KNX, stainless steel.....	EAN 4007841 004040.....	26
sensIQ S KNX, anthracite .....	EAN 4007841 056667 .....	26
sensIQ S KNX, black .....	EAN 4007841 004057 .....	26



IS 2180-2, white .....	EAN 4007841 603816.....	26
IS 2180-2, stainless steel.....	EAN 4007841 603915.....	26
IS 2180-2, anthracite .....	EAN 4007841 057664.....	26
IS 2180-2, black .....	EAN 4007841 603717 .....	26

# Overview of accessories

## Remote controls



Remote control RC2 .....	4007841 737818
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User remote control RC5 .....	4007841 592806
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Service remote control RC6 KNX .....	4007841 593018
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User remote control RC7 KNX.....	4007841 592912
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Service remote control RC8 .....	4007841 559410
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Remote control RC9.....	4007841 007638
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Service remote control RC10 5800 .....	4007841 008925
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Service remote control RC10 Q1 .....	4007841 007645
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Smart Remote.....	4007841 009151
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## LiveLink



LiveLink control box .....	4007841 031653
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LiveLink control box Connect.....	4007841 035129
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Switch coupler 4x DALI .....	4007841 013660
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LiveLink Gateway KNX .....	4007841 034009
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# Summary of sensor-switched lights

## Sensor-switched lights for indoors



RS PRO LED Q1 WW silver .....	EAN 4007841 007126 .....	7, 9
RS PRO LED Q1 WW white .....	EAN 4007841 007133 .....	7, 9
RS PRO LED Q1 NW silver .....	EAN 4007841 007102 .....	7, 9
RS PRO LED Q1 NW white .....	EAN 4007841 007119 .....	7, 9
RS PRO remote control RC 10.....	EAN 4007841 007645 .....	



RS PRO LED S2 WW PMMA .....	EAN 4007841 035846.....	7, 9, 17, 19
RS PRO LED S2 WW polycarbonate .....	EAN 4007841 035792.....	7, 9, 17, 19
RS PRO LED S2 WW glass .....	EAN 4007841 035853.....	7, 9, 17, 19
RS PRO LED S2 NW PMMA .....	EAN 4007841 035839.....	7, 9, 17, 19
RS PRO LED S2 NW polycarbonate .....	EAN 4007841 035808.....	7, 9, 17, 19
RS PRO LED S2 NW glass .....	EAN 4007841 035860.....	7, 9, 17, 19



RS PRO LED S1 WW polycarbonate .....	EAN 4007841 057831 .....	7, 17, 19
RS PRO LED S1 WW glass .....	EAN 4007841 057817 .....	7, 17, 19
RS PRO LED S1 NW polycarbonate .....	EAN 4007841 057800.....	7, 17, 19
RS PRO LED S1 NW glass .....	EAN 4007841 057787 .....	7, 17, 19



RS PRO LED S1 IP 65 WW .....	EAN 4007841 057824 .....	21, 32
RS PRO LED S1 IP 65 NW .....	EAN 4007841 057794.....	21, 32
RS PRO LED S2 IP 65 WW .....	EAN 4007841 057688.....	21
RS PRO LED S2 IP 65 NW .....	EAN 4007841 055820.....	21



RS PRO LED P1 WW .....	EAN 4007841 056063 .....	
RS PRO LED P1 WW slave .....	EAN 4007841 056056 .....	
RS PRO LED P1 NW .....	EAN 4007841 056032 .....	
RS PRO LED P1 NW slave .....	EAN 4007841 056049 .....	



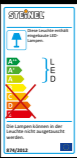
RS PRO LED P2 WW .....	EAN 4007841 056100.....	7, 17
RS PRO LED P2 WW slave .....	EAN 4007841 056094.....	7, 17
RS PRO LED P2 WW emergency light .....	EAN 4007841 058586.....	7, 17
RS PRO LED P2 NW .....	EAN 4007841 056070.....	7, 17
RS PRO LED P2 NW slave .....	EAN 4007841 056087 .....	7, 17
RS PRO LED P2 NW emergency light .....	EAN 4007841 058579.....	7, 17



RS PRO LED P3 WW .....	EAN 4007841 056148 .....	9, 17, 19, 21
RS PRO LED P3 WW slave .....	EAN 4007841 056131 .....	9, 17, 19, 21
RS PRO LED P3 WW emergency light .....	EAN 4007841 058609.....	9, 17, 19, 21
RS PRO LED P3 NW .....	EAN 4007841 056117 .....	9, 17, 19, 21
RS PRO LED P3 NW slave .....	EAN 4007841 056124 .....	9, 17, 19, 21
RS PRO LED P3 NW emergency light .....	EAN 4007841 058593.....	9, 17, 19, 21



RS PRO Connect 5100 LED .....	EAN 4007841 052911 .....	9, 19, 21, 23, 25
RS PRO Connect 5100 LED slave .....	EAN 4007841 052904.....	9, 19, 21, 23, 25
RS PRO Connect 5100 LED emergency light .....	EAN 4007841 058708.....	25



Energy efficiency class: the LED lights illustrated contain LED lamps of energy classes A++ to A.  
The lamps in these lights cannot be replaced.

## Sensor-switched lights for outdoors



L 690 LED anthracite.....	EAN 4007841 053000 .....	28
L 691 LED anthracite.....	EAN 4007841 053031 .....	28



L 330 LED anthracite.....	EAN 4007841 053079.....	28
L 331 LED anthracite.....	EAN 4007841 053093.....	28



L 666 LED anthracite.....	EAN 4007841 053116 .....	29
L 665 LED anthracite.....	EAN 4007841 053949.....	29



DL Vario Quattro PRO LED WW silver.....	EAN 4007841 035433.....	29
DL Vario Quattro PRO LED WW anthracite.....	EAN 4007841 057596.....	29
DL Vario Quattro PRO LED NW silver.....	EAN 4007841 035495.....	29
DL Vario Quattro PRO LED NW anthracite .....	EAN 4007841 057589.....	29



L 825 LED iHF anthracite.....	EAN 4007841 059903.....	29
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## Sensor-switched floodlights for outdoors



XLED PRO Wide, white .....	EAN 4007841 010072 .....	30
XLED PRO Wide, black .....	EAN 4007841 010096.....	30
XLED PRO Wide eNet, white .....	EAN 4007841 010218 .....	30
XLED PRO Wide eNet, black .....	EAN 4007841 010249 .....	30
XLED PRO Wide SL, white .....	EAN 4007841 010232 .....	30
XLED PRO Wide SL, black .....	EAN 4007841 010256 .....	30
XLED PRO Wide XL, white .....	EAN 4007841 010041 .....	30
XLED PRO Wide XL, black .....	EAN 4007841 010065.....	30
XLED PRO Wide XL SL, white .....	EAN 4007841 010201 .....	30
XLED PRO Wide XL SL, black .....	EAN 4007841 010225 .....	30



XLED PRO Square, white .....	EAN 4007841 009953 .....	30
XLED PRO Square, black .....	EAN 4007841 009977.....	30
XLED PRO Square eNet, white .....	EAN 4007841 009991.....	30
XLED PRO Square eNet, black .....	EAN 4007841 010027 .....	30
XLED PRO Square SL, white .....	EAN 4007841 010010 .....	30
XLED PRO Square SL, black .....	EAN 4007841 010034.....	30
XLED PRO Square XL, white .....	EAN 4007841 009922.....	30
XLED PRO Square XL, black.....	EAN 4007841 009946.....	30
XLED PRO Square XL SL, white .....	EAN 4007841 009984 .....	30
XLED PRO Square XL SL, black .....	EAN 4007841 010003.....	30



XLED PRO 240, white .....	EAN 4007841 003630 .....	30
XLED PRO 240, black .....	EAN 4007841 003623.....	30
XLED PRO 240, anthracite .....	EAN 4007841 057695.....	30
XLED PRO 240 SL, white .....	EAN 4007841 057725 .....	30
XLED PRO 240 SL, black .....	EAN 4007841 057718 .....	30
XLED PRO 240 SL, anthracite .....	EAN 4007841 057701 .....	30

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WARRANTY

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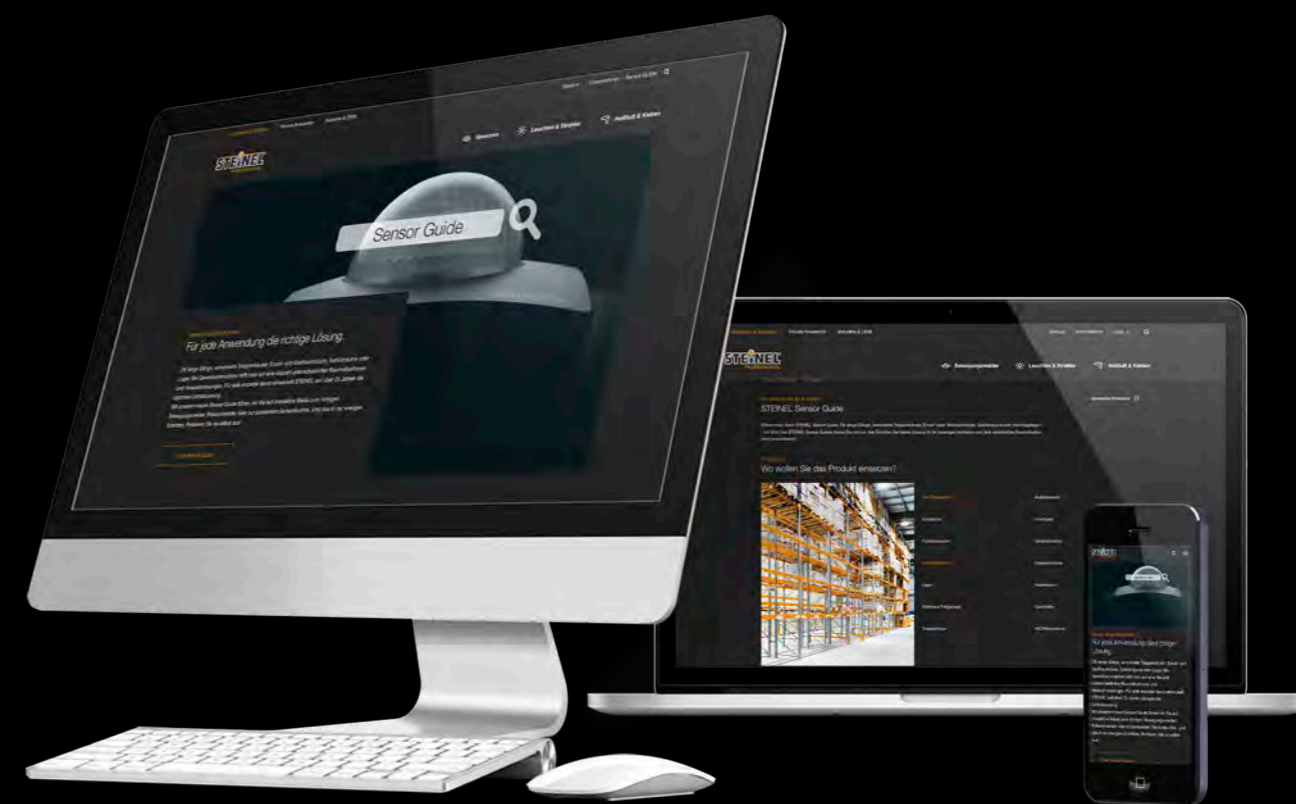
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As from now, you can access the online version of our sensor guide. This is where you will find the right sensor for your application and can immediately get all of the latest product details on our sensors and sensor-switched lights at a glance.

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