

Understanding and planning sensor technology.

The right solution for any space.

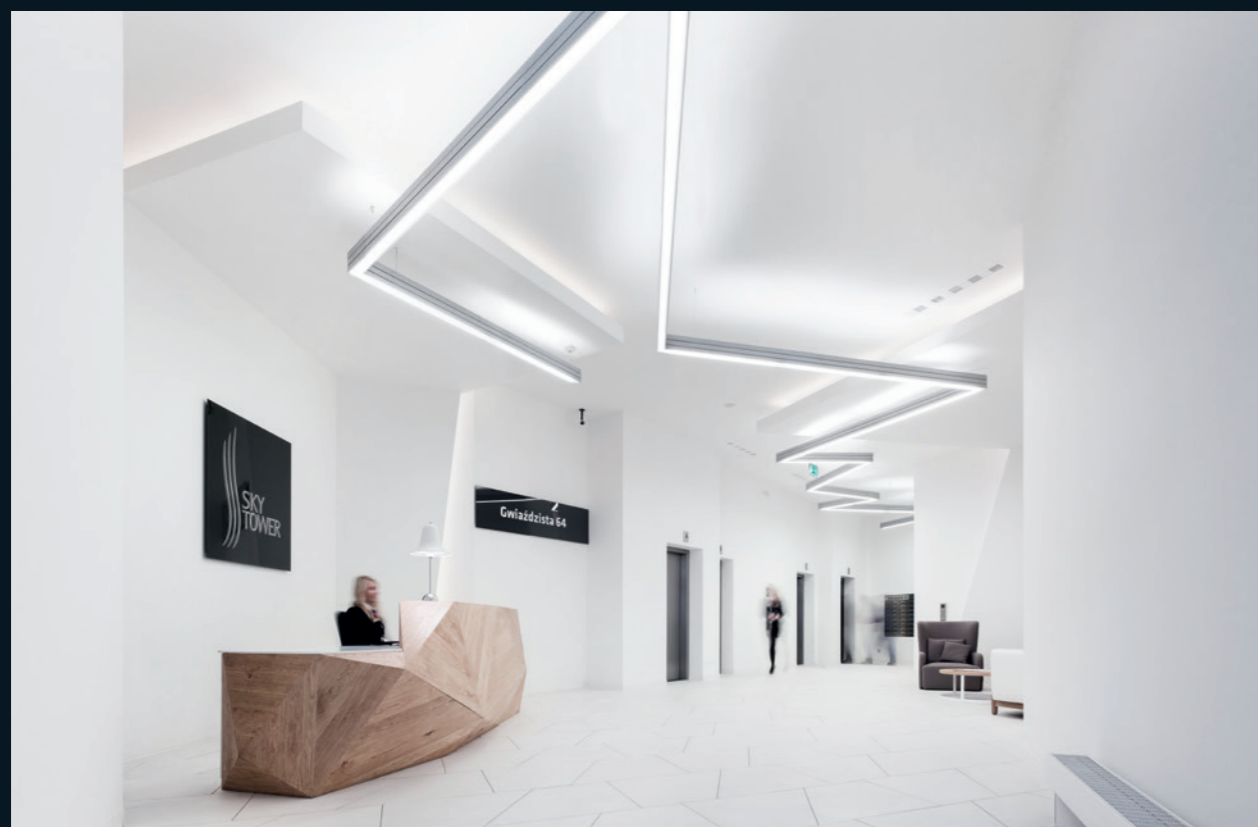
The right solution for any application.

Long corridors, irregularly shaped stairwells, one-person or open-plan offices, WCs, washrooms or warehouses: commercial properties come with all kinds of different spatial situations. STEINEL has been devoted to the task of developing the best possible lighting control solution for each and every one of them for over 25 years. As a specialist and technology in this field, we employ all of the four commonly used sensor technologies in our products out of conviction. So that they can reliably detect any movement over every last inch of space – in absolutely any situation.

In this brochure, we show you which sensor technology is best for the particular room situation – and how we optimise their use in our products. Doing so, we want to make it quick and easy for you to find the ideal sensor for any specific application. Leaving you to concentrate on the most important part of your work: making sure that your customers are fully satisfied by installing the best possible lighting control solution.

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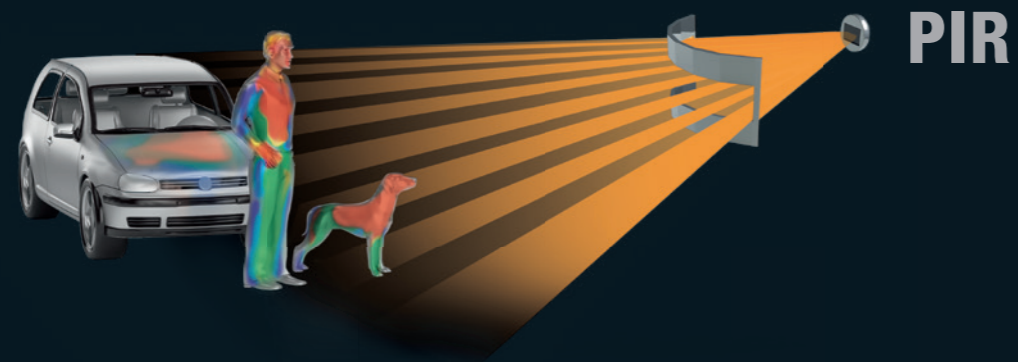
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Our 4 sensor technologies.
The right solution for any application.

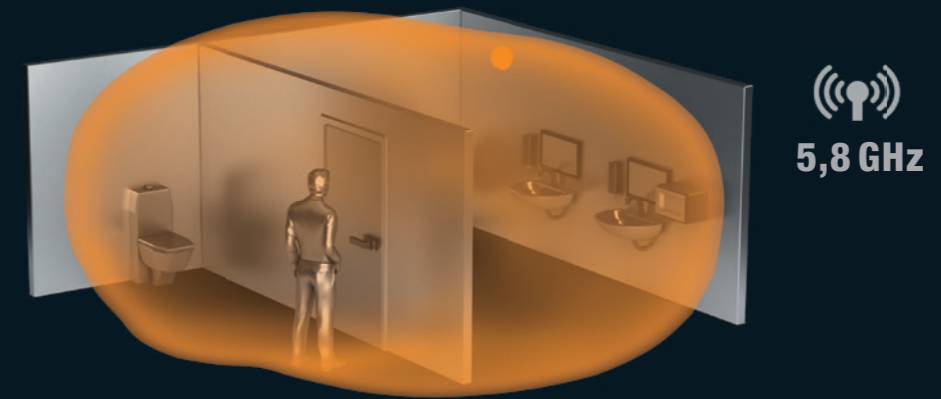
Passive infrared

Responds to moving sources of heat.



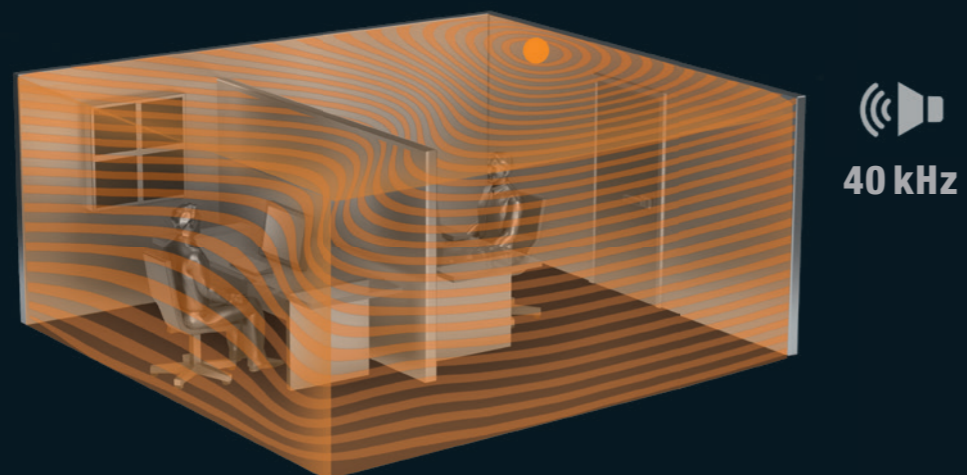
High frequency

Can even see through thin walls.



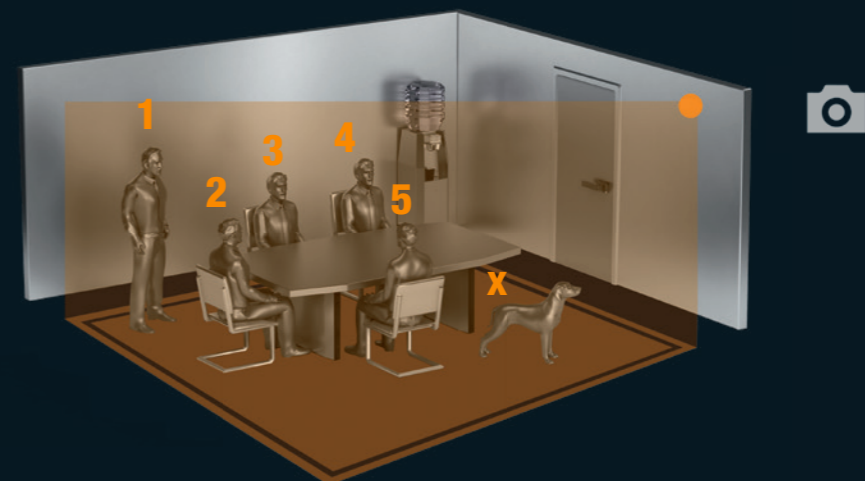
Ultrasonic

Fills the entire room and also detects movement around objects.



Camera sensor system

Only detects people and can also count them.



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Corridor/ passageway Sensors

It is crucial for a corridor sensor to be good at detecting radial movements. This means in situations when the sensor is approached from the front. STEINEL has developed special sensors for corridors, aisles and passageways on the basis of high-frequency technology or ultrasound – with a 'radial reach' of 10 metres in each direction. The DUAL HF or the DUAL US makes the perfect solution for a ceiling height of up to 3.50 m!

Special applications

- Opt for the DUAL US or Single US in situations involving widespread use of stud walls.
- The IS 345 infrared sensor is the right choice for a ceiling height of up to 5 m.

Technical advice

Reach of the ultrasonic and high-frequency sensors is easy to set by potentiometer. The IS 345 comes complete with practical shrouds.



Presence detector **Dual HF**

- High-frequency corridor sensor
 - HF-sensor detects through thin walls and suspended ceilings
 - For corridors, passageways and aisles in residential and office buildings
 - 20 m reach, 10 m in each direction
 - Detects everything equally well whichever direction it is approached from
 - COM1, KNX, DIM, DALI
- For EANs, see page 36



Motion detector **IS 345**

- Infrared corridor sensor
 - For corridors, passageways and aisles in residential and office buildings
 - Detection zone 20 m long and 5 m wide
 - Ceiling installation at a height of up to 5 m
 - Lens specifically geared to corridors, IP54
- For EANs, see page 36



Presence detector **Dual US**

- Ultrasonic corridor sensor
- Ultrasound envelops objects but does not pass through
- 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, COM2, DIM

For EANs, see page 36



Presence detector **Single US**

- Ultrasonic corridor sensor
- Ultrasound envelops objects but does not pass through
- For corridors, passageways and aisles in residential and office buildings
- 10 m reach in one direction only
- Perfect detection in one direction
- COM1, COM2, DIM

For EANs, see page 36

Corridor/ passageway SensorLights

SensorLights from STEINEL are the perfect solution for new build and refurbishment. The high-frequency sensor invented by STEINEL is invisibly integrated in the light and only switches light ON when it is needed. Simply connect the light to the power supply, adjust the sensor by 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

Models Q1, S1 and S2 can be interconnected bi-directionally by wireless signal and provide an optional basic lighting-level function.



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

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8 m reach
- 27,5W giving 1960 lumens, 3000K or 4000K
- Optional 10% – 50%, basic light level, bi-directional wireless interconnection capability
- Group parameterisation, switches OFF in relation to daylight

For EANs, see page 39



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

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8 m reach
- 16W giving 972 lumens, 3000K or 4000K
- Optional 10% basic light level, bi-directional wireless interconnection capability

For EANs, see page 39



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

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8 m reach
- 28W giving 1440 lumens, 3000K or 4000K
- Optional 10% basic light level, bi-directional wireless interconnection capability

For EANs, see page 39



Sensor-switched indoor light **RS PRO LED R1**

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8 m reach
- 11 W giving 770 lumens, 3000K or 4000K
- Wired interconnection

For EANs, see page 39

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Stairwell Sensors

In stairwells, direct detection of persons going up or down the stairs is often very restricted. This is because of the winding geometry of stairwells that infrared technology is not designed for. This is why STEINEL offers sensors based on high-frequency technology and ultrasound which guarantee perfect detection in stairwells.

Installation advice

- Use high-frequency sensors in normal building situations and for 360-degree detection
- Choose the Single US ultrasonic sensor for small and winding stairwells

Technical advice

The HF 360 and Single US models permit semi-automatic operation for switching light ON manually and OFF again automatically.



Motion detector HF 3600

- 360° high-frequency motion detector
- HF-sensor can detect through suspended ceilings
- For indoor wall and corner mounting
- 8 m in diameter, infinitely variable

For EANs, see page 36



Presence detector HF 360

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

For EANs, see page 36



Presence detector Single US

- Ultrasonic corridor sensor
- Ultrasound envelops objects but does not pass through
- For corridors, passageways and aisles in residential and office buildings
- 10m reach in one direction only
- Perfect detection in one direction
- COM1, COM2, DIM

For EANs, see page 36

Stairwell SensorLights

SensorLights from STEINEL are the perfect solution for new build and refurbishment. The high-frequency sensor invented by STEINEL is invisibly integrated in the light and only switches light ON when it is needed. Simply connect the light to the power supply, adjust the sensor by 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

The new Remote Group Setting function featured in the RS PRO 5800/5850 LED models minimises the effort involved in setting your lights. You can simply send the settings of one light to all of the others by remote control!



Sensor-switched indoor light RS PRO LED Q1

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8m reach
- 27,5W giving 1960 lumens, 3000K or 4000K
- Optional 10% – 50%, basic light level, bi-directional wireless interconnection capability
- Group parameterisation, switches OFF in relation to daylight

For EANs, see page 39



Sensor-switched indoor light RS PRO 5800 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8m reach
- 40W giving 4600 lumens, 4000K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50% basic light level, slave version available

For EANs, see page 39



Sensor-switched indoor light RS PRO LED S2

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8m reach
- 28W giving 1440 lumens, 3000K or 4000K
- Optional 10% basic light level, bi-directional wireless interconnection capability

For EANs, see page 39



Sensor-switched indoor light RS PRO LED R1

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8m reach
- 11W giving 770 lumens, 3000K or 4000K
- Easy-Install concept

For EANs, see page 39

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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 doesn't go out when sitting at the computer. Besides precision infrared sensors, STEINEL now also offers the highly sensitive ultrasonic technology from the USA.

Benefits from STEINEL

- With an overall height of just 4mm, the IR Quattro SLIM is almost invisible
- The IR Quattro lets you limit detection to any chosen work areas
- The ultrasonic US 360 detects even the smallest of movement despite obstacles and room dividers

Technical advice

Take advantage of natural daylight using constant-lighting control in the DIM, DALI & KNX versions for maximum energy efficiency.



Presence detector **IR Quattro SLIM**

- Ultra-slim 360° infrared presence detector
- Overall height of just 4 mm, ceiling mounting
- Square presence detection zone covering 16m²
- Only retina lens of its kind in the world
- COM1, COM2, KNX, DIM, DALI

For EANs, see page 36



Presence detector **IR Quattro**

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

For EANs, see page 36



Presence detector **IR Quattro HD**

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

For EANs, see page 37



Presence detector **DualTech**

- 360° DualTech presence detector
- Infrared + ultrasound for best detection quality
- Presence detection zone covering 28m², ceiling mounting
- COM1, COM2, DIM

For EANs, see page 37



Presence detector **US360**

- 360° ultrasonic presence detector
- Ultrasound envelops objects but does not pass through
- Presence detection zone covering 28m², ceiling mounting
- COM1, COM2, DIM

For EANs, see page 37

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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 brings tremendous reliability and efficiency to controlling lighting in open-plan offices.

Benefits from STEINEL

- The IR Quattro HD provides a presence detection zone of up to 64 square metres as well as exact square detection footprint restricted to specific work groups
- By combining infrared and ultrasonic technology, DualTech opens up completely new technical capabilities, such as switching light ON by infrared and detecting presence by ultrasound

Technical advice

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

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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 infrared and ultrasound as well as the camera sensor system as the only one of its kind in the world.

Benefits from STEINEL

- The IR Quattro HD provides a presence detection zone of up to 64 square metres as well as exact square detection footprint restricted to chosen areas
- Ultrasonic sensor US 360 is ideal for pendant lights or sound insulation elements
- The HPD 1 can count the number of people in a room, delivering highly relevant information for overall building automation

Technical advice

The HPD1 lets you set up three precision detection zones!



Human Presence Detector HPD1

- 120° camera sensor as the only one of its kind in the world
- Detects and counts people sitting and standing
- 3 detection zones can be precision-defined, wall mounting
- IP and KNX interface

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Presence detector IR Quattro

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

For EANs, see page 36



Presence detector IR Quattro HD

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

For EANs, see page 37



Presence detector DualTech

- 360° DualTech presence detector
- Infrared + ultrasound for best detection quality
- Presence detection zone covering 28m², ceiling mounting
- COM1, COM2, DIM

For EANs, see page 37



Presence detector IR Quattro HD

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

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Presence detector US360

- 360° ultrasonic presence detector
- Ultrasound envelops objects but does not pass through
- Presence detection zone covering 28m², ceiling mounting
- COM1, COM2, DIM

For EANs, see page 37



Presence detector IR Quattro SLIM

- Ultra-slim 360° infrared presence detector
- Overall height of just 4 mm, ceiling mounting
- Square presence detection zone covering 16m²
- Only retina lens of its kind in the world
- COM1, COM2, KNX, DIM, DALI

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Presence detector US360

- 360° ultrasonic presence detector
- Ultrasound envelops objects but does not pass through
- Presence detection zone covering 28m², ceiling mounting
- COM1, COM2, DIM

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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 excellent detection performance with the best sensor technology from STEINEL.

Benefits from STEINEL

- With its presence detection zone of 64 square metres, the IR Quattro HD can cover an entire classroom.
- The US 360 monitors even the smallest of movement despite possible obstructions to the line of sensor vision, e.g. from partitions or large visual display units in the room.

Technical advice

Install the IR Quattro SLIM DALI for controlling two rows of luminaires for room light and the IR Quattro HD for the blackboard lighting. This is where you have options for automatic and manual control, e.g. dimming the light.



WC / washroom Sensors

In WCs and washrooms, cubicles and partitions make it hard to detect movement. Conventional infrared technology makes it necessary to install a large number of sensors to ensure well-functioning detection – in fact, a sensor above each WC. That's 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!
This means you only need a fraction of the sensors you would with infrared technology.
- The new ultrasonic technology is the ideal solution for irregularly shaped rooms.
- The IS D360 sensor can be neatly installed as an infrared solution in standard GU10 spots.

Technical advice

Use the ceiling adapter for installing the HF 360 on a suspended ceiling, leaving it hidden from view and vandalproof.



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, KNX, DIM, DALI

For EANs, see page 36



HF ceiling adapter

- for installation on suspended ceilings

EAN 4007841 006600



Motion detector **ISD 360**

- 360° infrared motion detector
- Concealed wiring, ceiling mounting at a height of up to 2.5 m
- 16 m reach in diameter
- 3 pyro sensors, IP20

For EANs, see page 37



Presence detector **US 360**

- 360° ultrasonic presence detector
- Ultrasound envelops objects but does not pass through
- Presence detection zone covering 28 m², ceiling mounting
- COM1, COM2, DIM

For EANs, see page 37

WC / washroom SensorLights

In WCs and washrooms, SensorLights 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 in 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 LED downlighter.



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

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8 m reach
- 16 W giving 972 lumens, 3000 K or 4000 K
- Optional 10% basic light level, bi-directional wireless interconnection capability

For EANs, see page 39



Sensor-switched downlighter **RS PRO DL LED 22 W**

- Sensor-switched LED downlighter
- 360° high-frequency sensor, 8 m reach
- 22 W giving 1400 lumens, 3000 K or 4000 K
- Optional 10% basic light level, slave version available

For EANs, see page 39



Sensor-switched downlighter **RS PRO DL LED 15 W**

- Sensor-switched LED downlighter
- 360° high-frequency sensor, 8 m reach
- 15 W giving 925 lumens, 3000 K or 4000 K
- Optional 10% basic light level, slave version available

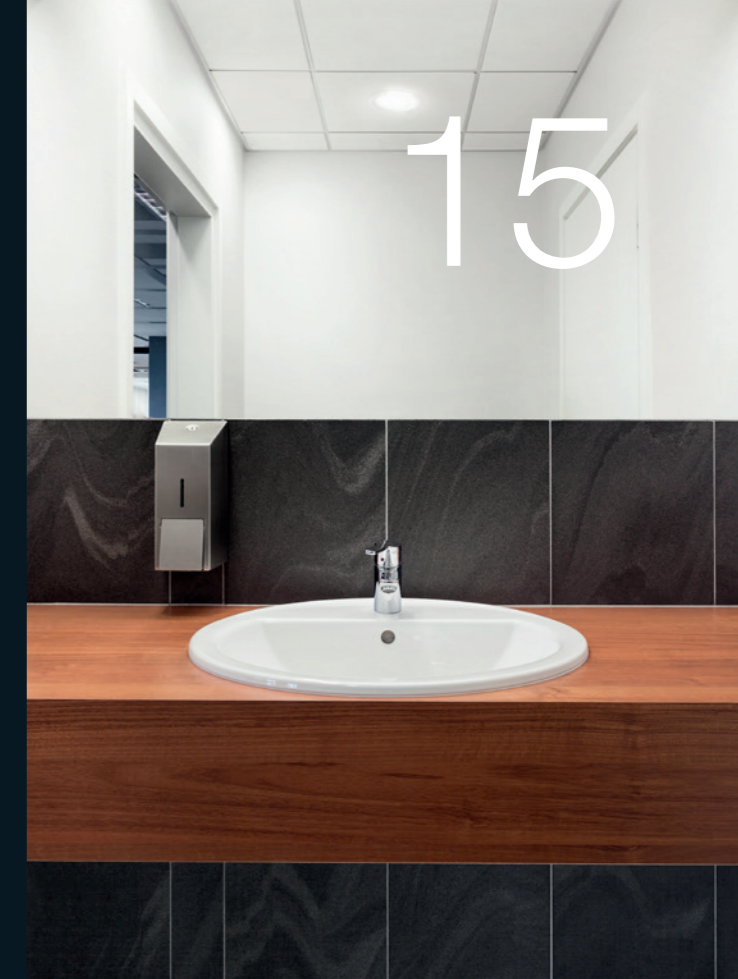
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Sensor-switched indoor light **RS PRO LED R1**

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8 m reach
- 11 W giving 770 lumens, 3000 K or 4000 K
- Easy-Install concept

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Side room Sensors

Particularly in little used side rooms, the light is often left on when there's nobody there. Depending on room type, STEINEL offers you three technologies based on infrared, high frequency and ultrasound.

Benefits from STEINEL

- Use the IR Quattro and IR Quattro SLIM for small to medium-sized rooms
- The HF 360 is the optimum solution where the influence of temperature makes infrared detection difficult (e.g. printer rooms)
- The US 360 detects the smallest of movements despite obstacles to the line of sensor vision (e.g. cabinets)

Technical advice

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



Presence detector **IR Quattro SLIM**

- Ultra-slim 360° infrared presence detector
- Overall height of just 4 mm, ceiling mounting
- Square presence detection zone covering 16m²
- Only retina lens of its kind in the world
- COM1, COM2, KNX, DIM, DALI

For EANs, see page 36



Presence detector **IR Quattro**

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

For EANs, see page 36



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

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8m reach
- 16W giving 972 lumens, 3000K or 4000K
- Optional 10% basic light level, bi-directional wireless interconnection capability

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Sensor-switched downlighter **RS PRO DL LED 15W**

- Sensor-switched LED downlighter
- 360° high-frequency sensor, 8m reach
- 15W giving 925 lumens, 3000K or 4000K
- Optional 10% basic light level, slave version available

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Presence detector **US360**

- 360° ultrasonic presence detector
- Ultrasound envelops objects but does not pass through
- Presence detection zone covering 28m², ceiling mounting
- COM1, COM2, DIM

For EANs, see page 37



Presence detector **HF360**

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

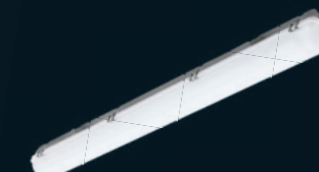
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Sensor-switched indoor light **RS PRO LED R1**

- Sensor-switched LED indoor light
- 360° high-frequency sensor, 8m reach
- 11W giving 770 lumens, 3000K or 4000K
- Easy-Install concept

For EANs, see page 39



Sensor-switched indoor light **RS PRO 5800 LED**

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8m reach
- 40W giving 4600 lumens, 4000K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50% basic light level, slave version available

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Side room SensorLights

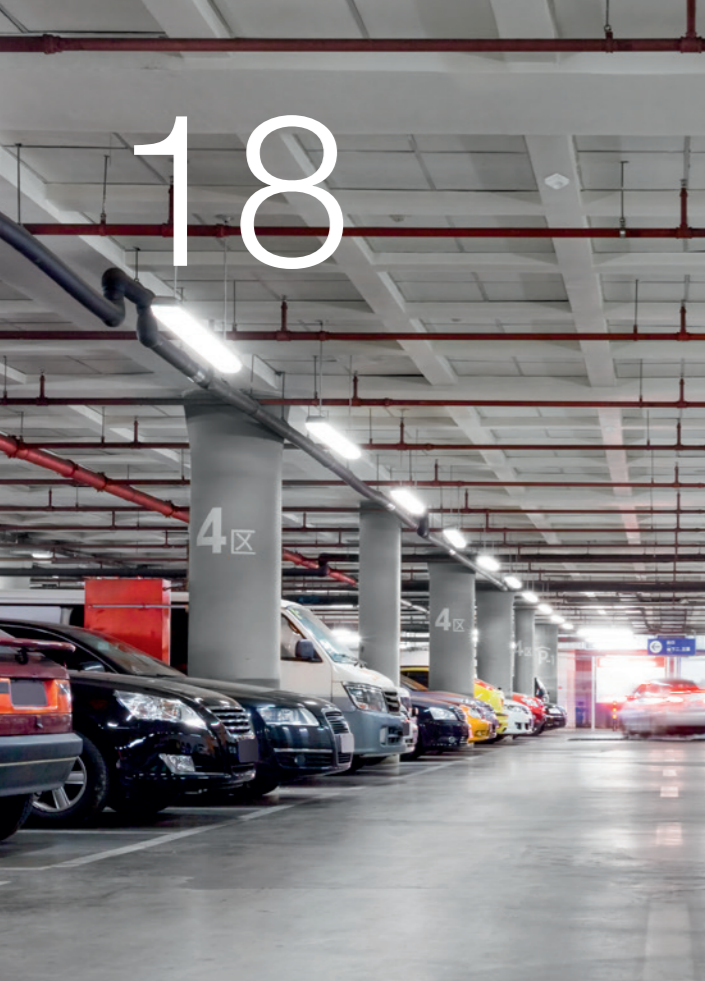
Side rooms often have no window, making them dark when you enter them. This is where you want the light to come on quickly. Instead, you sometimes have to fumble around to find the switch. SensorLights from STEINEL are the ideal solution here.

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 one of the many different shades for the RS PRO LED S1 for impact resistance or maximum light output.



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 square metres with only one sensor
- The HF 3360 is ideal at entrances for switching light ON instantly. Because light is switched ON as soon as the sensor detects the door opening.

Technical advice

The SensIQ can be wall and ceiling mounted.



Motion detector **IS 3360**

- 360° infrared motion detector
- Watches over up to 1,000 m², 20m reach radius
- Ceiling installation at a height of up to 4 m
- 3 pyro sensors, IP54

For EANs, see page 37



Motion detector **IS 3180**

- 180° infrared motion detector
- Watches over up to 500 m², 20m reach radius
- Wall and corner mounting
- 2 pyro sensors, IP54

For EANs, see page 37



Motion detector **sensIQ**

- 300° motion detector for outdoors
- Wall, corner & ceiling mounting
- Three 100° zones and sneak-by guard
- Each zone can be mechanically adjusted from 2–20m
- Installation at a height of up to 5 m, IP54
- Additional wireless, soft-start and potential-free modules

For EANs, see page 37



Motion detector **HF 3360**

- 360° high-frequency motion detector
- 8m reach in diameter
- Ceiling, wall or corner mounting
- Ideal for entrances

For EANs, see page 37

Multi-storey / underground car park SensorLights

Illuminating multi-storey car parks safely and reliably demands the use of powerful lights that use up a lot of energy. Often, entire storeys are illuminated when nobody's there. Using STEINEL SensorLights, the light is switched ON when it's 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
- The basic light-level function is available for safety lighting at night

Technical advice

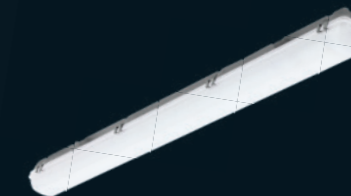
The new and highly innovative swarm function from the RS PRO 5800 LED for the first time permits dynamic lighting.



Sensor-switched indoor light **RS PRO 5800 LED**

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8 m reach
- 40 W giving 4600 lumens, 4000 K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50 % basic light level, slave version available

For EANs, see page 39



Sensor-switched indoor light **RS PRO 5850 LED**

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8 m reach
- 52 W giving 5820 lumens, 4000 K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50 % basic light level, slave version available

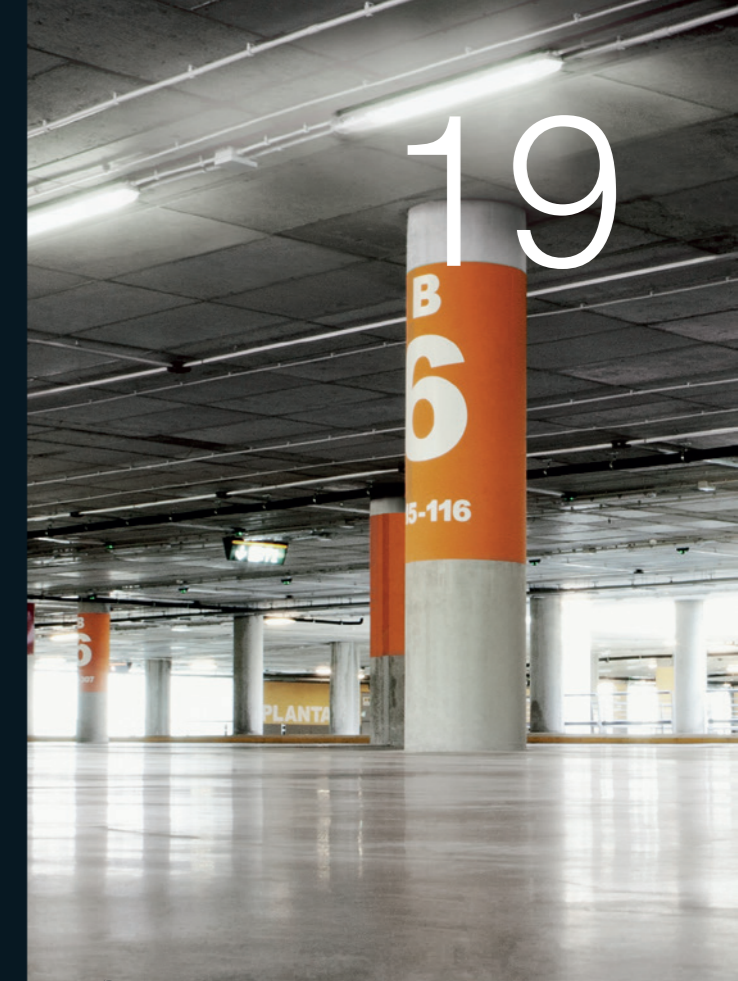
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Sensor-switched indoor light **RS PRO 5002 LED**

- T5 sensor-switched LED diffuser luminaire
- 360° high-frequency sensor, 8 m reach
- 2 x 28 W T5 and LED orientation light, 6.7 W
- IP65 and IK07, also available as a slave version

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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 square metres when installed at a height of 10 m
- You can protect the sensor from any damage with an optional metal cage

Technical advice

You can set the sensor with the optional remote control for added convenience.



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, KNX, DIM, DALI

For EANs, see page 37



Guard cage **IR Quattro HD**

- Prevents damage from balls or vandals

EAN 4007841 003036

Equipment room Sensors / SensorLights

Equipment rooms on schools and other facilities, like gyms, are rooms in which the light is often left on unused.

Benefits from STEINEL

- Ultrasonic sensor US 360 is ideal for irregularly shaped rooms, e.g. changing rooms with lockers, as ultrasound propagates throughout the room
- Infrared sensor IS 3360 is the perfect solution for large, open spaces
- As impact-resistant, sensor-switched luminaires, SensorLights RS PRO 5800 LED and RS PRO LED S1 IP 65 are equipped with an integrated HF-sensor for the toughest of applications

Technical advice

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



Presence detector **US360**

- 360° ultrasonic presence detector
- Ultrasound envelops objects but does not pass through
- Presence detection zone covering 28 m², ceiling mounting
- COM1, COM2, DIM

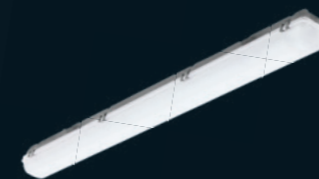
For EANs, see page 37



Motion detector **IS 3360**

- 360° infrared motion detector
- Watches over up to 1,000 m², 20 m reach radius
- Ceiling installation at a height of up to 4 m
- 3 pyro sensors, IP54

For EANs, see page 37



Sensor-switched indoor light **RS PRO 5800 LED**

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8 m reach
- 40 W giving 4600 lumens, 4000 K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50 % basic light level, slave version available

For EANs, see page 39

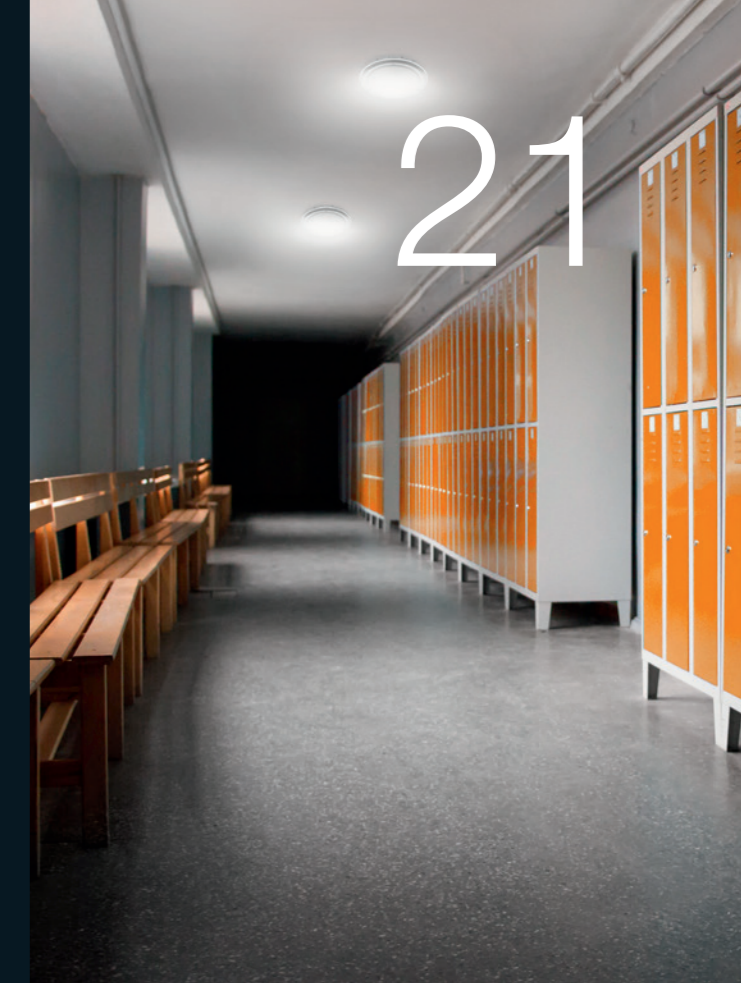


Sensor-switched indoor light **RS PRO LED S1 IP65**

- Sensor-switched LED indoor light
- For rugged applications: IP65, IK10
- 360° high-frequency sensor, 8 m reach
- 16 W giving 1191 lumens (opal 900 lumens), 4000 K
- Optional 10 % basic light level, bi-directional wireless interconnection capability

For EANs, see page 40

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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 square metres with just one sensor
- For warehouse aisles, STEINEL offers the IS 345 MX Highbay with a reach of 30 m per aisle
- Existing highbay lights can be automated directly by fitting HBS 300 and 200 sensors to the light

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 up to 12 m high
- Detection zone 30 m long and 4 m wide
- Lens specifically geared to corridors, IP54

For EANs, see page 38



Presence detector IR Quattro HD

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

For EANs, see page 37



Motion detector HBS 300 Highbay

- 360° infrared motion detector
- For fitting to existing highbay lights
- Warehouses and indoor spaces up to 14 m high
- 18 m reach radius

For EANs, see page 38



Motion detector HBS 200 Highbay

- Infrared corridor sensor
- For fitting to existing highbay lights
- High-bay warehouse and aisles up to 14 m high
- Detection zone 30 m long and 4 m wide

For EANs, see page 38

Warehouse SensorLights

Almost all warehouse facilities are illuminated by artificial light and in most cases lighting is left on all the time during working hours although it is only needed for a short period. Using STEINEL SensorLights, 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, and lights can be operated in groups
- High-efficiency STEINEL LED systems on the cutting edge of technology
- All lights are also available in a slave version

Technical advice

Models RS PRO 5800 & 5850 LED provide the capability of setting basic light level from 10–50 % and the main light from 50–100 %.

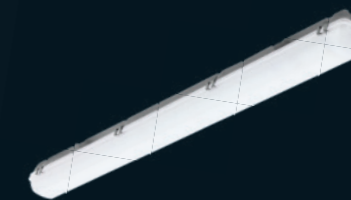
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Sensor-switched indoor light RS PRO 5800 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8 m reach
- 40 W giving 4600 lumens, 4000 K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50 % basic light level, slave version available

For EANs, see page 39



Sensor-switched indoor light RS PRO 5850 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8 m reach
- 52 W giving 5820 lumens, 4000 K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50 % basic light level, slave version available

For EANs, see page 39



Sensor-switched indoor light RS PRO 5002 LED

- T5 sensor-switched LED diffuser luminaire
- 360° high-frequency sensor, 8 m reach
- 2 x 28 W T5 and LED orientation light, 6.7 W
- IP65 and IK07, also available as a slave version

For EANs, see page 40



Sensor-switched indoor light RS PRO 5100

- T5 sensor-switched LED diffuser luminaire
- 360° high-frequency sensor, 8 m reach
- 1 x 54 W T5
- IP65 and IK07, also available as a slave version

For EANs, see page 40

Outdoors Sensors

Private home construction

In private home construction, the main reason for using motion detectors is safety and convenience. Whether on the drive or at the front door – lighting needs to come on reliably when people approach the building.

Benefits from STEINEL

- STEINEL offers sensors with coverage angles of up to 300 degrees for mounting on the wall, ceiling or on the corners of buildings
- Its slim-line and compact design makes the IS 2180 extremely unobtrusive as it reliably watches over outdoor areas over 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

iHF 3-D technology prevents inadvertent triggering from small animals and the detection zone can be precision-adjusted electronically in 3 directions with a reach of 8 m.



Motion detector iHF 3D

- 160° high-frequency sensor
- The perfect, innovative detector for outdoors
- Reach 0.5–8m, precision-adjustable in 3 directions
- Detects movement equally well from whichever direction it is approached from
- No inadvertent triggering from small animals
- Also available as a KNX version

For EANs, see page 38



Motion detector IS 2180-2

- 180° infrared sensor, 2 pyro sensors
- Compact design fits close to the wall
- Outdoors, areas of up to 200 m²
- Reach up to 12 m

For EANs, see page 38



Motion detector IS 3180

- 180° infrared motion detector
- Watches over up to 500 m², 20m reach radius
- Wall and corner mounting
- 2 pyro sensors, IP54

For EANs, see page 37



Motion detector sensIQ S

- 300° motion detector for outdoors
- Wall and 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 5m, IP54
- Also available as a KNX version

For EANs, see page 38

Outdoors Sensors

Commercial buildings

The outdoor areas around commercial buildings are among the fields in which sensors are most frequently used. This is where it is mainly about 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 in corners
- The IS 3180 can watch over outdoor areas of up to 500 sq.m.
- 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 the infrared sensors to point across the walking direction so as to optimise detection performance.



Motion detector IS 3180

- 180° infrared motion detector
- Watches over up to 500 m², 20m reach radius
- Wall and corner mounting
- 2 pyro sensors, IP54

For EANs, see page 37



Motion detector sensIQ

- 300° motion detector for outdoors
- Wall, corner & 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 5m, IP54
- Additional wireless, soft-start and potential-free modules

For EANs, see page 37



Outdoors SensorLights

STEINEL offers a wide selection of sensor-switched LED lights for outdoors. Whether for the family home, residential complex or entrances to commercial properties – with this selection, you are bound to find the right light.

Benefits from STEINEL

- SensorLights for outdoors provide convenience, safety and security from innovative infrared sensor technology
- Integrated LED light systems are perfectly matched to the sensors
- An optional basic light level attractively illuminates the house number at night

Technical advice

If required, you can activate 4 hours of permanent lighting operating the switch in the mains power cable.



Sensor-switched outdoor light L 650 LED

- Sensor-switched outdoor LED light
- Impact-resistant polycarbonate diffuser, IK 07
- 180° infrared sensor, 12 m reach
- 8 W LED light system, optional basic lighting level, soft start

For EANs, see page 40



Sensor-switched outdoor light L 691 LED

- Sensor-switched outdoor LED light
- 360° infrared sensor, 8 m reach
- 16 W LED light system, optional basic light level, soft start
- Four intelligent basic light-level programmes

For EANs, see page 40



Sensor-switched outdoor light L 680 LED

- Sensor-switched outdoor LED light
- 140° infrared sensor, 12 m reach
- 8 W LED light system
- Optional basic light level, soft start

For EANs, see page 40



Sensor-switched outdoor light L 665 LED

- Sensor-switched outdoor LED light
- 360° infrared sensor, 8 m reach
- 9 W LED light system, separate house number illumination
- Optional basic lighting level, soft start
- Four intelligent basic light-level programmes

For EANs, see page 41



Sensor-switched outdoor light L 675 LED

- Sensor-switched outdoor LED light
- 360° infrared sensor, 8 m reach
- 9 W LED light system, separate house number illumination
- Optional basic lighting level, soft start
- Four intelligent basic light-level programmes

For EANs, see page 40



Sensor-switched outdoor light L 676 LED

- Sensor-switched outdoor LED light
- 360° infrared sensor, 8 m reach
- 8 W LED light system, separate house number illumination
- Optional basic lighting level, soft start
- Four intelligent basic light-level programmes

For EANs, see page 40



Sensor-switched outdoor light L 666 LED

- Sensor-switched outdoor LED light
- 360° infrared sensor, 8 m reach
- 8 W LED light system, separate house number illumination
- Optional basic lighting level, soft start
- Four intelligent basic light-level programmes

For EANs, see page 41



Sensor-switched outdoor light L 690 LED

- Sensor-switched outdoor LED light
- 360° infrared sensor, 8 m reach
- 16 W LED light system, optional basic light level, soft start
- Four intelligent basic light-level programmes

For EANs, see page 41

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Outdoors Floodlight projectors

Outdoor illumination for advertising purposes is a major field of application for lights. This often involves illuminating signs, company logos or billboards. Normally, this is done using floodlights with halogen bulbs. The drawback: once the bulb reaches the end of its life, it has to be changed at lofty heights, involving a considerable amount of effort.

Benefits from STEINEL

- Thanks to integrated photo-cell controller, advertising can be illuminated at night all automatically with the LED floodlight projector from STEINEL
- The long-life LED light system keeps power consumption very low
- Several floodlights can be interconnected by cable to switch ON at the same time

Technical advice

The floodlight head can be turned through 180° to illuminate areas from above or below.



Floodlight projector **XLED FL-100**

- LED floodlight projector with photo-cell sensor system
- For billboards and advertising signs
- 25W giving 1016 lumens, colour rendering index RA ≥ 90
- Arm length 100cm, as many as 16 floodlights can be interconnected by cable

For EANs, see page 41

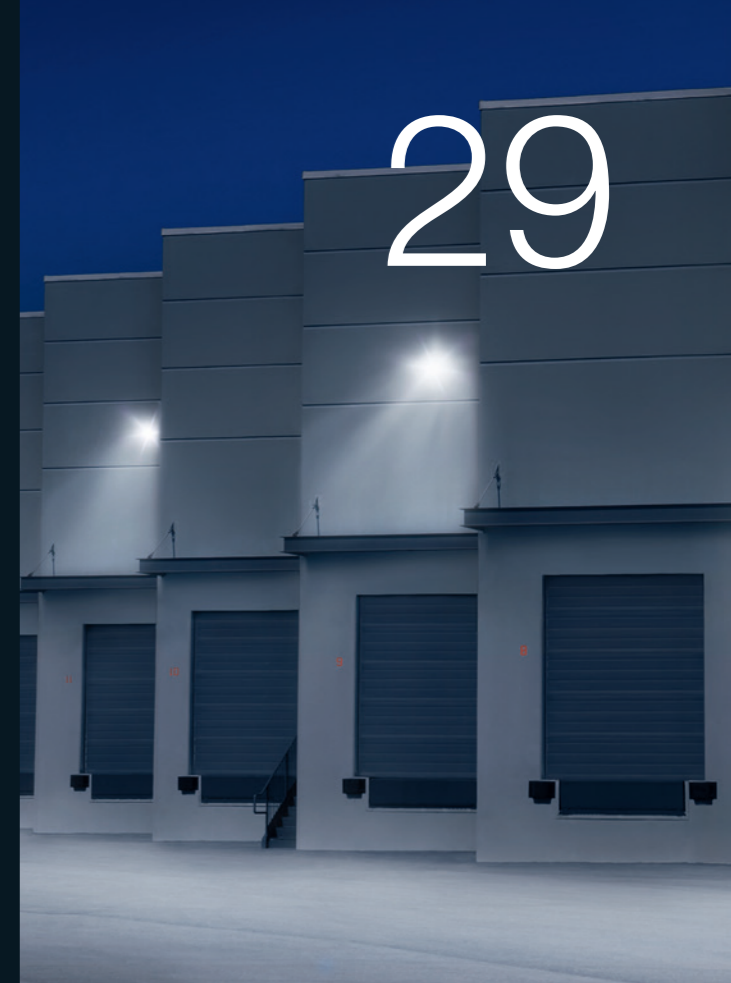


Floodlight projector **XLED FL-50**

- LED floodlight projector with photo-cell sensor system
- For billboards and advertising signs
- 25W giving 1016 lumens, colour rendering index RA ≥ 90
- Arm length 50cm, as many as 16 floodlights can be interconnected by cable

For EANs, see page 41

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Outdoors 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

- With LED floodlights XLED 25 and 10, STEINEL offers two output levels to provide an impressive 4000 and 2000 lumens of light
- These powerful floodlights can brightly illuminate areas of up to 500 square metres with effortless ease
- The floodlights feature a fully rotating LED panel, 10% basic light level and an active LED cooling system

Technical advice

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



Sensor-switched floodlight **XLED 25**

- High-power sensor-switched LED floodlight
- 240° infrared sensor with 12m reach
- 62W giving 4000 lumens
- Optional 10% basic light level, slave and wireless version available

For EANs, see page 41



Sensor-switched floodlight **XLED 10**

- High-power sensor-switched LED floodlight
- 240° infrared sensor with 12m reach
- 30W giving 2000 lumens
- Optional 10% basic light level, slave and wireless version available

For EANs, see page 41

KNX sensors

STEINEL detectors provide more functions than other sensors and come with additional HVAC and presence outputs to make the overall system even more efficient. All settings for STEINEL sensors are also very easy to change by BUS. In short: opting for STEINEL sensors with KNX interface, you are making exactly the right decision in terms of future-proofing a building and ensuring its long-term attractiveness.



Presence detector IR Quattro HD KNX

- 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

For EANs, see page 37



Motion detector sensIQ S KNX

- 300° motion detector for outdoors
- Wall & 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

For EANs, see page 38



Presence detector IR Quattro KNX

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 16 m², ceiling mounting

For EANs, see page 36



Presence detector Dual HF KNX

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

For EANs, see page 36



Presence detector IR Quattro SLIM KNX

- Ultra-slim 360° infrared presence detector
- Overall height of just 4 mm, ceiling mounting
- Square presence detection zone covering 16 m²
- Only retina lens of its kind in the world

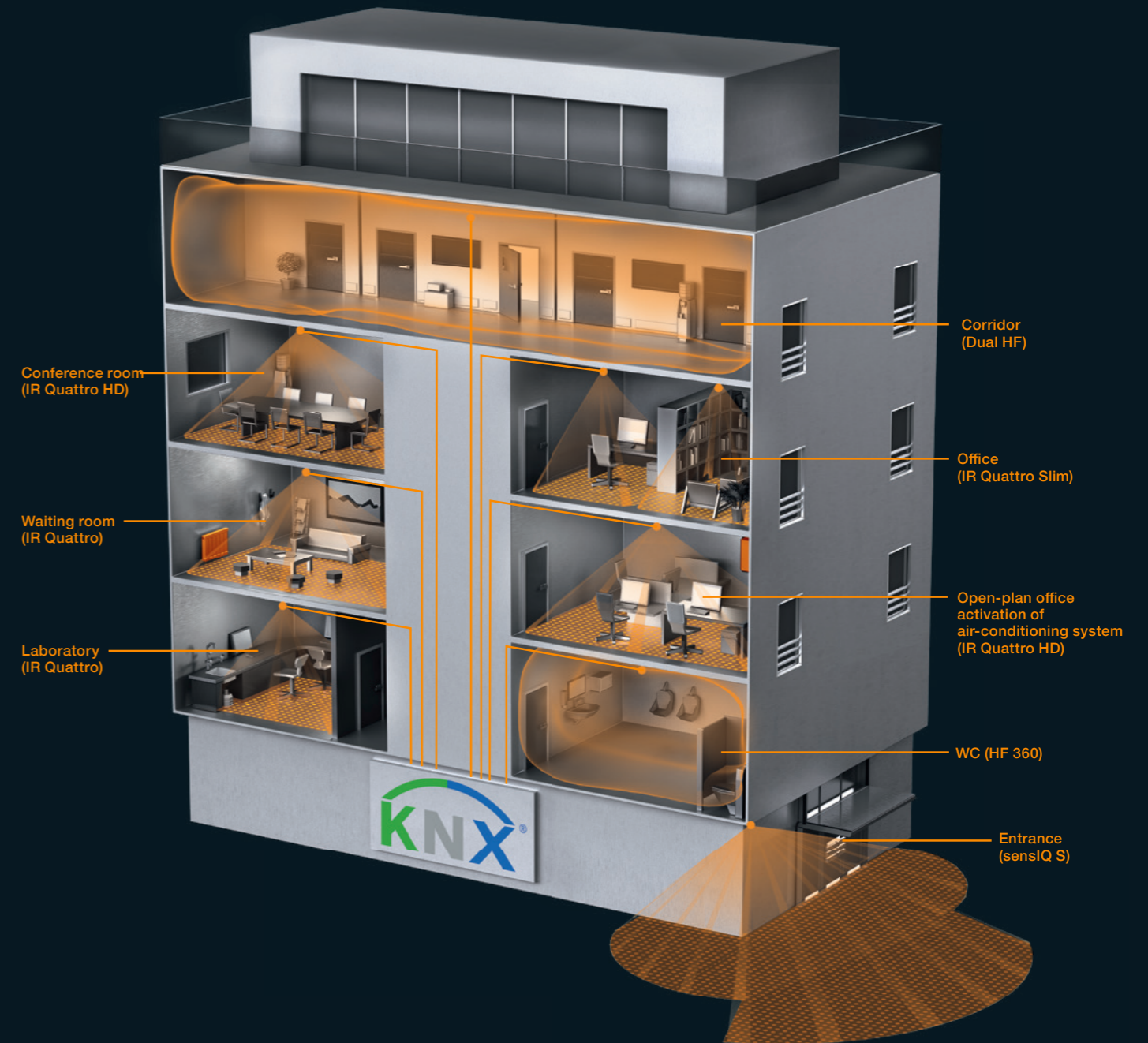
For EANs, see page 36



Presence detector HF 360 KNX

- 360° high-frequency presence detector
- HF-sensor detects through thin walls and suspended ceilings
- 12 m reach in diameter, ceiling mounting

For EANs, see page 36



CONTROL
PRO
SYSTEM

sensIQ

- Up to 4 lighting channels
- Basic lighting level function
- Constant-lighting control
- HVAC output
- Additional presence output
- Light level can be exported
- Mains connection (30 V) through KNX BUS voltage
- Setting by ETS, remote control or BUS

- 1 lighting channel
- Basic lighting level function and soft start
- Additional presence output
- Close-up range output
- Photo-cell controller output
- Light level can be exported
- Mains connection (30 V) through KNX BUS voltage
- Setting by ETS, remote control or BUS

DALI sensors

Constant-lighting control by means of intelligent sensors.

In classrooms or offices, large windows produce different light levels in the room.

To make optimum use of daylight, this means that the lighting control system should respond to the different light situations in the room. With constant lighting control on 2 light channels, the STEINEL DALI presence detectors provide optimum control for light strips in relation to incident daylight. If the daylight component increases, the sensor dims the lighting down. If more light is needed as it gets dark, artificial lighting is turned up to the level required. This provides added convenience while keeping light levels constant, and it also saves energy because artificial lighting is only added when it is really needed. The presence detectors are easily integrated into the lighting system by DALI Broadcast. They can be put into operation by remote control all very conveniently.

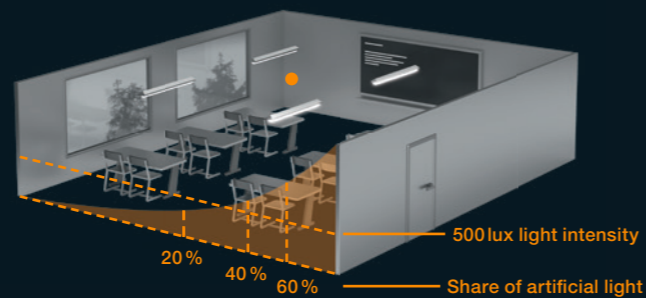


Presence detector IR Quattro HD

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 64m²
- Ceiling installation at a height of up to 10m

For EANs, see page 37

Constant-lighting control for controlling light the efficient way.



Presence detector IR Quattro

- 360° infrared presence detector
- Square detection zone, mechanically scalable
- Square presence detection zone covering 16m², ceiling mounting

For EANs, see page 36



Presence detector Dual HF

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

For EANs, see page 36



Presence detector IR Quattro SLIM

- Ultra-slim 360° infrared presence detector
- Overall height of just 4 mm, ceiling mounting
- Square presence detection zone covering 16m²
- Only retina lens of its kind in the world

For EANs, see page 36



Presence detector HF 360

- 360° high-frequency presence detector
- HF-sensor detects through thin walls and suspended ceilings
- 12m reach in diameter, ceiling mounting

For EANs, see page 36

DALI SensorLights

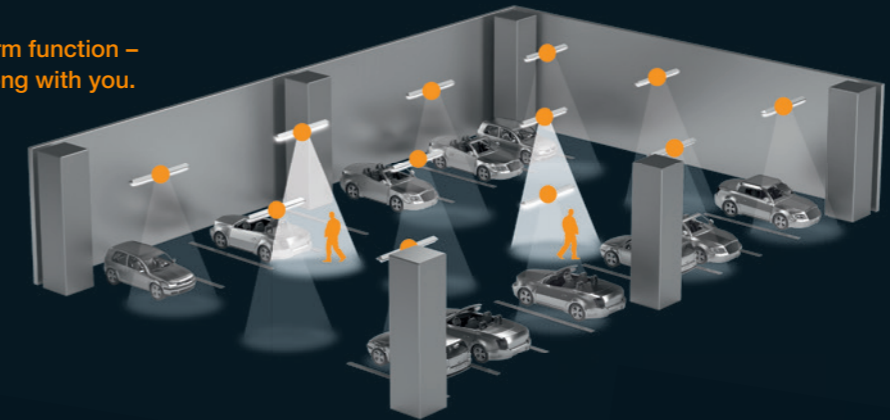
Dynamic lighting intelligence.

Presenting the RS PRO 5800 LED series, STEINEL provides state-of-the-art waterproof LED diffuser luminaires with swarm intelligence.

Communicating on the DALI bus, swarm technology lets light 'move along' with you.

These luminaires couldn't be easier to install. You can make all settings by remote control for ultimate convenience. The Remote Group Setting function (group parameterisation) provides the capability of relaying all settings on to the other lights. Any basic light level can be selected and is automatically synchronised among the lights. Protected against strong jets of water and impact-resistant, they are ready for any lighting application.

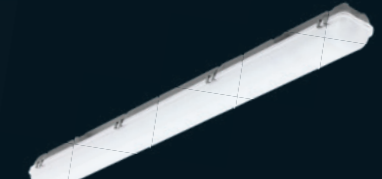
Intelligent swarm function – light moves along with you.



Sensor-switched indoor light RS PRO 5800 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8m reach
- 40W giving 4600 lumens, 4000K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50% basic light level, slave version available

For EANs, see page 39



Sensor-switched indoor light RS PRO 5850 LED

- Sensor-switched LED diffuser luminaire
- For rugged applications: IP66, IK07
- 360° high-frequency sensor, 8m reach
- 52W giving 5820 lumens, 4000K
- Intelligent swarm function on DALI bus
- Group parameterisation
- Optional 10–50% basic light level, slave version available

For EANs, see page 39

Group parameterisation Remote control RC 10

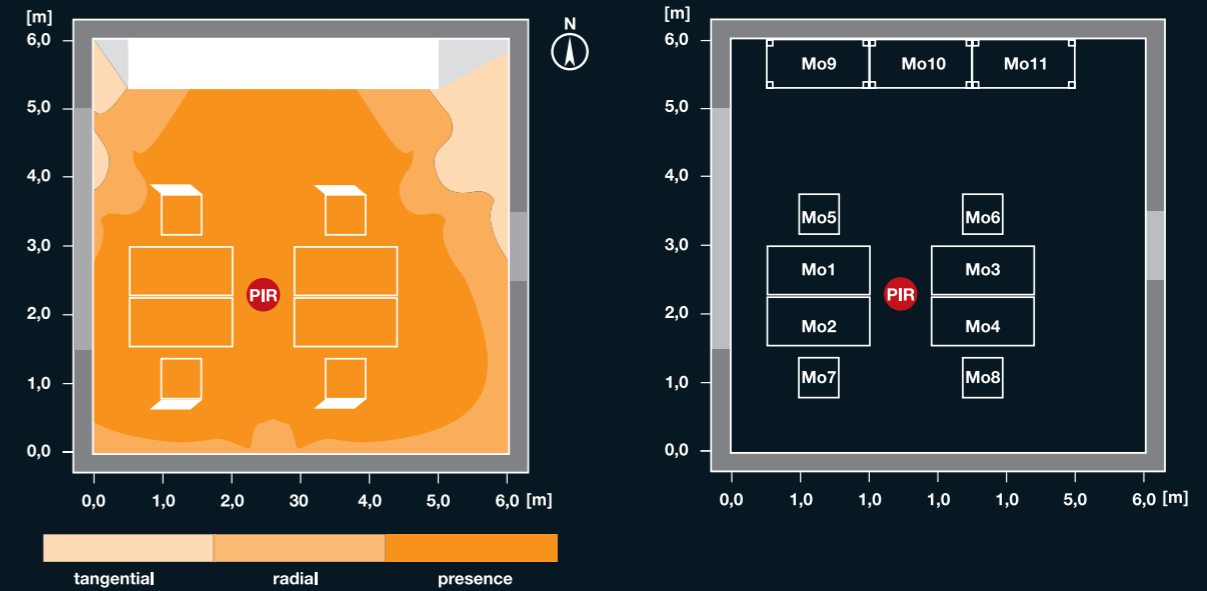
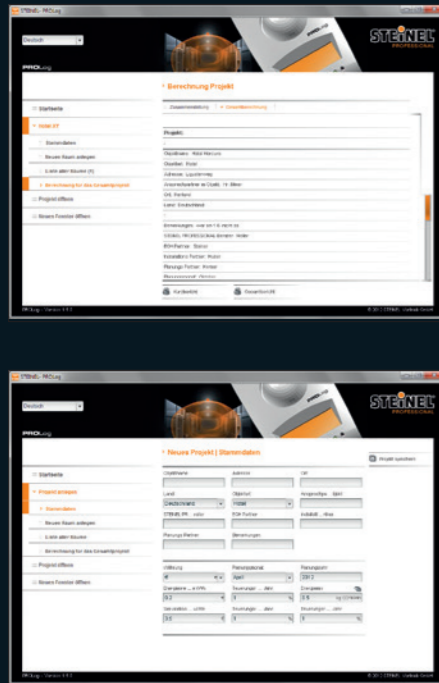
Remote Group Setting function.

Set once – automatic transmission to all lights interconnected in a group.

For EANs, see page 39



Spot on rather than rough estimate. STEINEL PROFESSIONAL planning tools.



The PROLog planning tool answers your 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 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 and 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? The 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.

Download from 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, the software has been used by hundreds of thousands of lighting planners across the world.

The light planning and visualisation data are 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.

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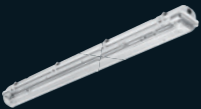





Summary of sensors








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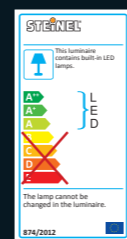
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	L 676 LED aluminium-silverEAN 4007841 003869..... 26 L 676 LED aluminium-anthraciteEAN 4007841 581916 26
	L 680 LED glass, whiteEAN 4007841 003821 27 L 680 LED glass, silverEAN 4007841 003838..... 27 L 680 LED stainless steelEAN 4007841 671914..... 27 L 680 LED aluminium silverEAN 4007841 003814 27 L 680 LED aluminium anthraciteEAN 4007841 003807..... 27

	L 665 LED aluminium-silverEAN 4007841 003760 27
	L 666 LED aluminium-silverEAN 4007841 003777 27
	L 690 LED aluminium-silver PMMAEAN 4007841 672010 27 L 690 LED aluminium-anthracite PMMA EAN 4007841 672119..... 27 L 690 LED aluminium-silver glassEAN 4007841 671518..... 27 L 690 LED aluminium-anthracite glass ..EAN 4007841 671617 27
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Energy efficiency class:
The illustrated LED luminaires contain
LED lamps of energy classes A++ to A.
The lamps cannot be changed in the luminaire.

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