



Presence Detectors
Motion Detectors
Practical SensorLights

Product Overview

Motion Detectors



Indoors and Outdoors

Information	Motion Detectors							
								
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Presence Detectors








Control PRO System
Indoors

Information	Presence Control PRO			
				
Page 68	84 IR Quattro HD	86 IR Quattro	88 HF 360	90 Dual HF

Smoke Detector	Air Quality Sensor
	
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SensorLights

Indoors *

Information	HF-SensorLights RS PRO					
						
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HF-SensorLights RS PRO					Information	HF-SensorLights		
								
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RS PRO 5500 Sensor	RS PRO 5500 Slave	RS PRO DL 100 Sensor	RS PRO DL 100 Slave	RS PRO LED S1		RS 50	BRS 81	BRS 82










Sensor-Switched Floodlights

Outdoors*

Information	Sensor-Switched LED Floodlights		LED Floodlights		Sensor-Switched Halogen Floodlights			
								
Page 156	158 XLed 10 Sensor	158 XLed 25 Sensor	160 XLed-SL 10	160 XLed-SL 25	162 HS 502	164 HS 152 XENO	166 HS 2160	168 HS-S 150 W Slave

Wireless Sensor Technology

IMPULSER
Indoors and Outdoors

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IS 2180-5	IS 2180-2	HF 3600	IS 300	IS D360	IS 2160 ECO

Photoelectric Lighting Controller



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NightMatic 5000-2

Presence detectors
LuxMaster
Indoors







Infrared			
			
110	110	110	110
BLS	BLS D	BLS DF	BLS T

STEINEL PROLog and RELUX







Page 16/18
PROLog, RELUX


	Information	HF-SensorLights RS PRO							
									
116									
		RS PRO 5000 Sensor	RS PRO 5000 Slave	RS PRO 5002 Sensor with LED	RS PRO 5002 Slave with LED	RS PRO 5200 Sensor	RS PRO 5200 Slave	RS PRO 5100 Sensor	RS PRO 5100 Slave

					
148	148	148	148	148	148
BRS 83	BRS 86	BRS 87	BRS 80 P with power socket	BRS 83 P with power socket	BRS 85 P with power socket

* You will find decorative indoor SensorLights in the separate "Style" catalogue

* You will find decorative outdoor SensorLights in the separate "Style" catalogue

Transceivers			
			
183	183	183	183
FE 8200	MF 1	RS PRO 1000, 2000 + MF 1	sensIQ + MF 1

 Remote control (optional)

Developed by Steinel – that was true of the first SensorLight back in 1987 as it is today of the widest range of sensor technologies and products.

STEINEL Professional

Whether the invention of the Sensor-Light back then or today's well-established high-frequency sensor systems – our profound expertise evolved over time and systematically moved forward is second to none. We are the full-line supplier of automated, efficient lighting control systems. Idea and expertise have been going hand in hand for over 50 years to make sensor and lighting technology from Steinel the No. 1 one

choice for electrical fitters in all room situations.

Solutions for professional needs

STEINEL Professional is the roof under which we bring together the full range of sensor technologies for professional requirements. We develop products and technologies for specific lighting situations. Easy to follow, clearly structured operating concepts and straightforward assembly form the cornerstones of our product ranges. These provide everyone working with our products on a daily basis with the equipment they need to meet any lighting task in the best possible way.

Intelligent flexibility

We combine energy efficiency with convenience and optimise the solution by perfecting the way consumption is matched to actual demand. We call this "ecological intelligence". And it pays in every respect: The user saves time and money – our products take care of the rest all by themselves.

STEINEL Professional.
Intelligent Lighting for Professionals.



PORTRAIT

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You will find further decorative SensorLights for indoors and outdoors in our separate "Style" catalogue.



Philosophy

To be and remain technology leader, we set the benchmark in technology, design, planning, calculation and realisation in close dialogue with the electrical installation trade.



From the idea to service

Being the No. 1 technologically – that's what drives us. STEINEL Professional is, has always been and will remain the driving force in sensor technology. In addition to pure functionality, we push forward design, planning, calculation, technical implementation and quality of service. That's how we understand a professional partnership for intelligent lighting.

We work with the experts

We develop and optimise our products by communicating and co-operating with the electrical and specialist retail trade. With STEINEL Professional, this not only means continuous technical advances are put to the test every day but also our customer focus.

Realising visions

Energy efficiency, i.e. easing the burden on ecological resources, is the aim of everything we develop. It is on this basis that products of world renown are manufactured at five locations in Europe. They prove that research and development in tune with the world create trendsetting solutions. STEINEL Professional optimises techniques and technologies to achieve and ensure energy efficiency, precision, reliability and long service life.

PROFESSION

German Quality made in Europe

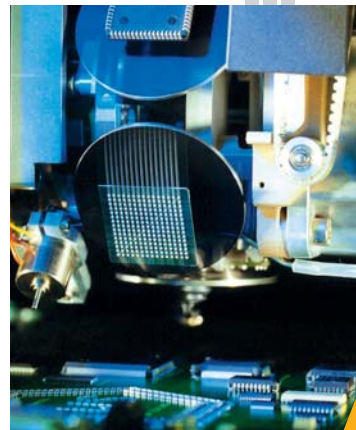
Herzebrock-Clarholz/D

Leipzig-Mölkau/D

Liberec/CZ

Einsiedeln/CH

Curtea de Arges/RO



AL

Quality: Professionalism from A – Z



Development, manufacturing, testing and training is all done by us: "German Quality made in Europe" – that's what the STEINEL Professional name stands for.

Germany quality – made in Europe

From A to Z, STEINEL Professional does everything itself: with 1,200 members of staff, its own team of over 70 physicists, engineers and electronics experts, its own development laboratories in Switzerland and in Germany. The result is a uniquely broad range of technologies for controlling and automating lighting in line with demand.

This brand quality is ensured by

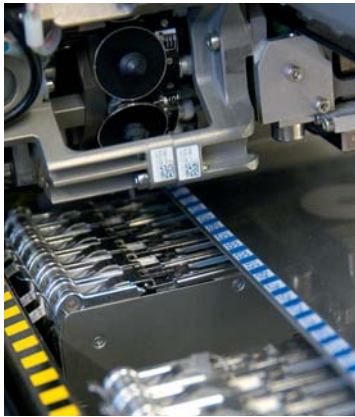
- our own precision manufacturing facilities at five locations in Europe
- doing our own research and development
- making our own tools and prototypes
- producing our own electronics, plastics and injection mouldings
- providing our own warehousing logistics from picking to world-wide shipment
- operating our own training centre
- providing support from our own sales representatives and service hot line

Consistent in technology and design

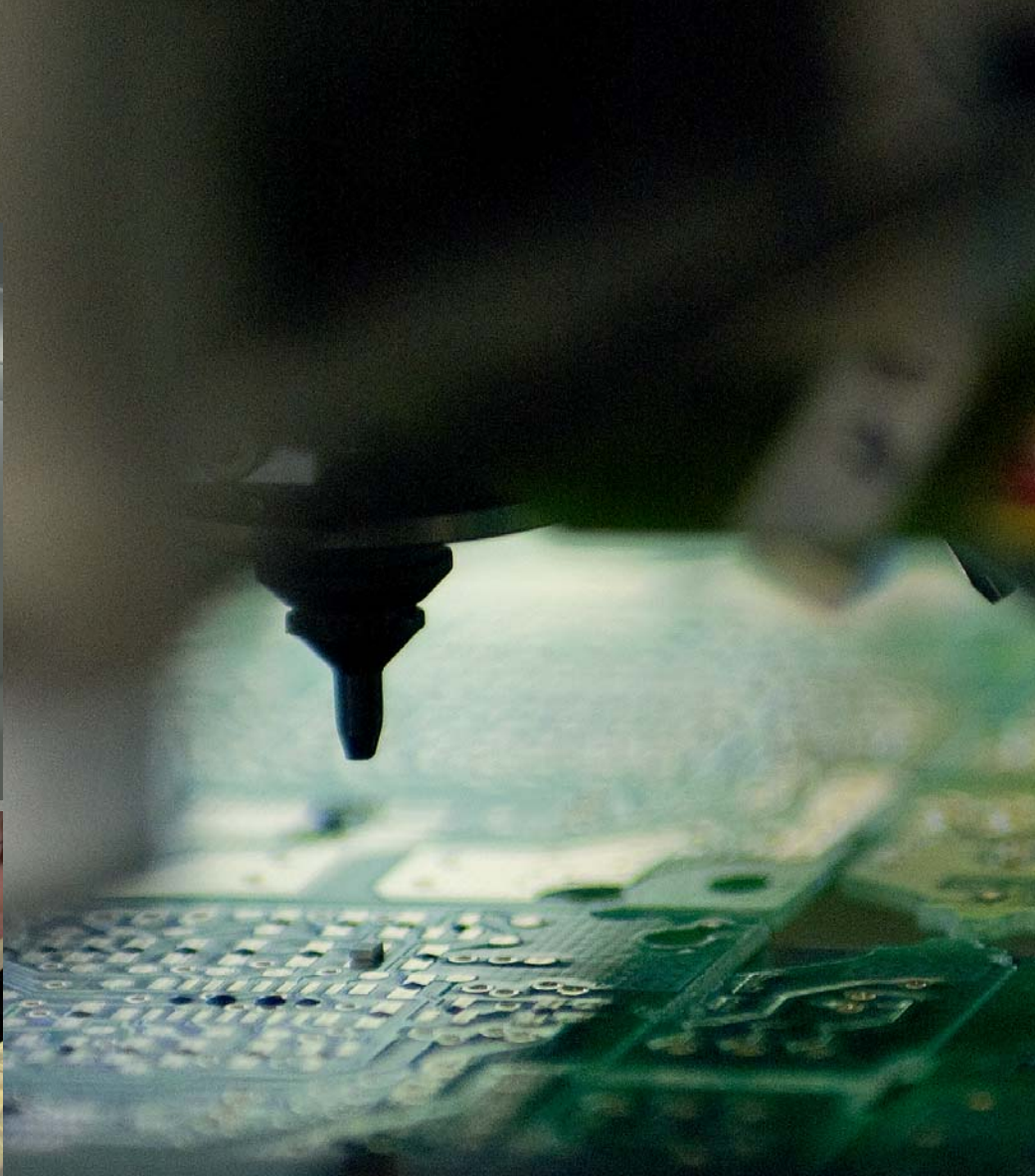
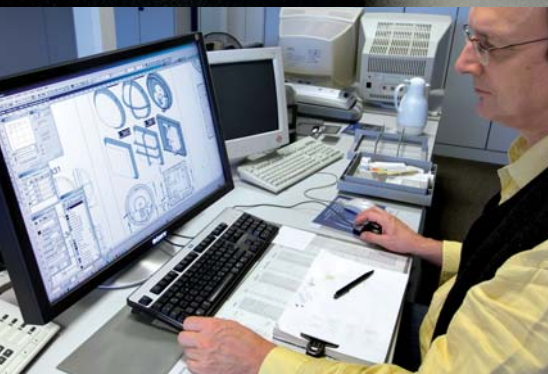
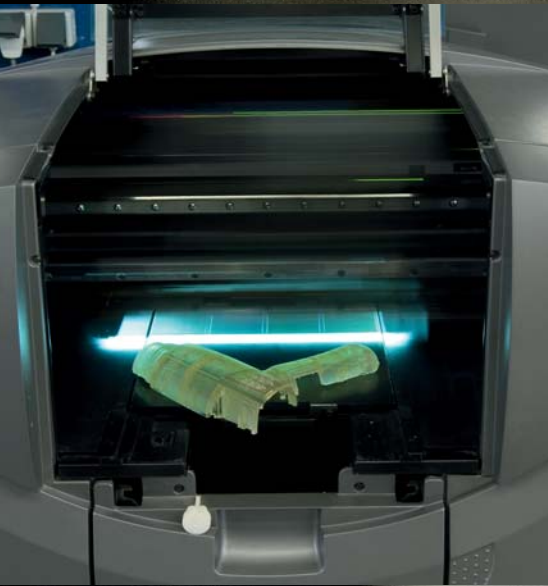
As a full-line supplier operating across the globe, we work with a certified quality management system and quality standard that covers all relevant – national and international – guidelines: our products comply with the latest safety regulations and constantly receive all the important marks of approval. Every product must prove its suitability for everyday use in endurance trials and test series. Once it does, it goes into mass production. We also meet this high quality standard in terms of design. All STEINEL Professional products speak a design language that has attracted numerous international awards.



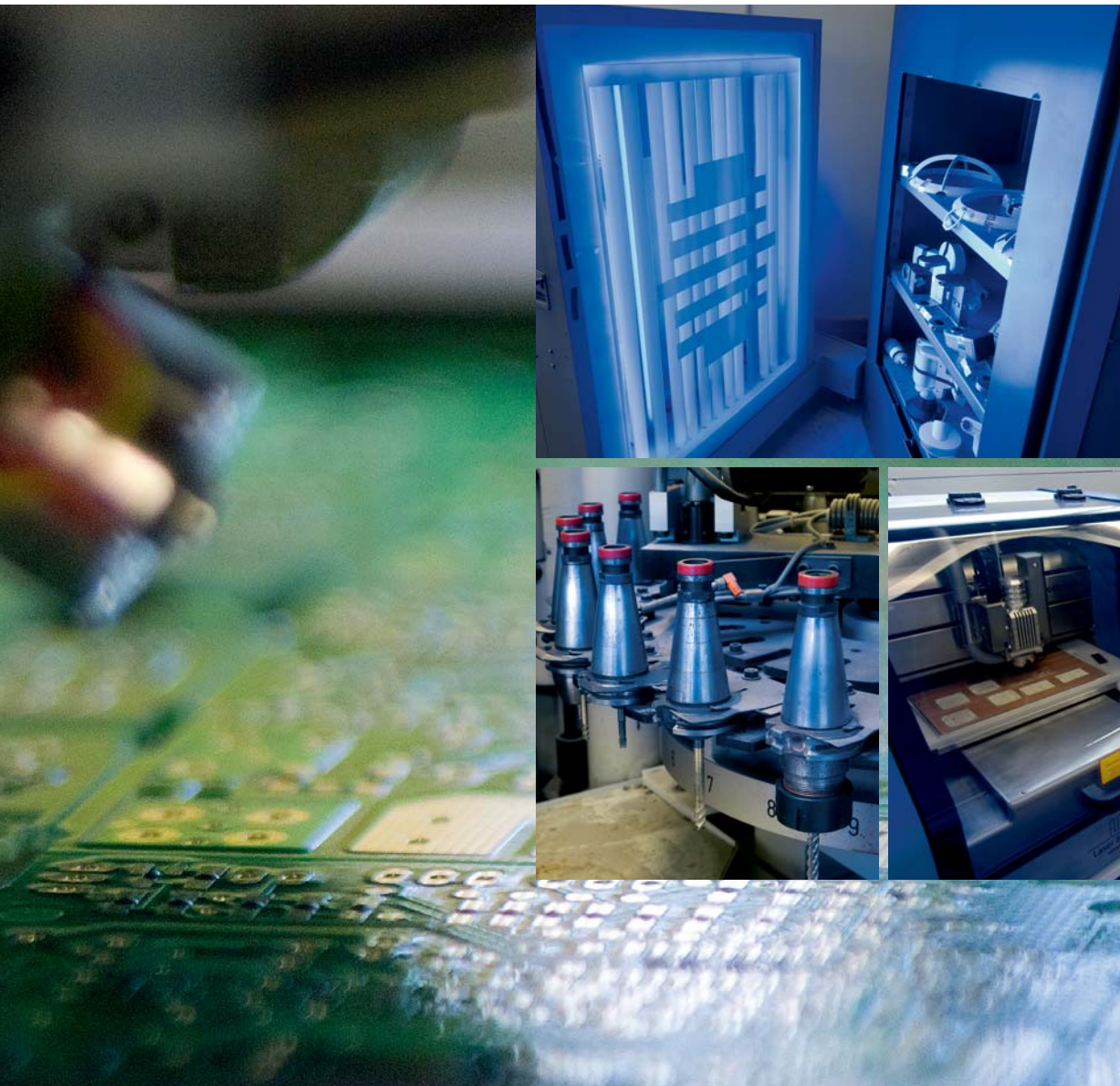
QUALITY



Quality: Professionalism from A – Z



PRECISION



Designing, planning, manufacturing, testing: Our plants are hives of intense activity during the various phases of product development.



Quality: Professionalism from A – Z

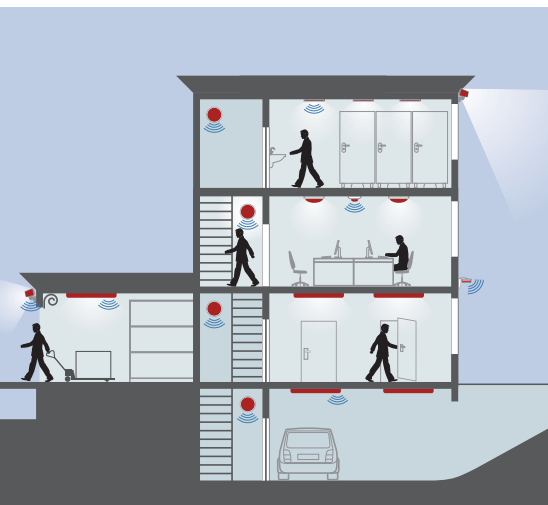


PRODUCTION



Whether planning and designing, manufacturing our products or training our staff and customers – we do the producing, developing, researching and training from A to Z all by ourselves.

Our Mission: Energy Efficiency



Light that comes 'ON' automatically, reliably recognising with precision in any room situation when it's needed and when it's not – that's what we understand our job to be.

Being there is enough

Just imagine you can match energy consumption solely and exactly to the lighting that's actually demanded. This means maximum energy efficiency in providing light.

"Consumption equals demand", for example, is the optimising formula for

- office rooms and complexes
- hotels
- public buildings
- classrooms and conference rooms
- stairwells and corridors
- WCs and bathrooms
- factory sites and outdoor facilities

... and everything else takes care of itself

Minimising the use of energy, CO₂ emission and costs is founded on the logical principle of avoiding wastage. The idea behind this is as simple as it is ingenious: Light that automatically recognises in any situation when it's needed and when it isn't. Lighting geared exactly to requirements provides safety, security and a good measure of convenience even on a small scale. On a large scale, it gives you systematic lighting control, minimising energy costs.

A range for every situation – compromising on nothing:

Fit new buildings and refurbishment projects with sensitive motion or presence detectors from STEINEL Professional. And benefit from first-class sensors and lights for every situation – as an individual solution or an all-inclusive one. Saving energy and adding convenience is the fruit of our work.

**Light only when it's needed - all automatically.
Because light that's not needed is energy wasted**

ENERGY EFF



ICIENCY



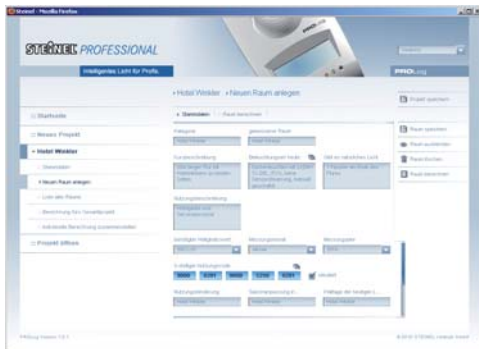
STEINEL PROLog – for a sound prediction of potential savings

PROLog



With STEINEL Professional, you don't have to estimate the savings sensor technology can provide in a building any more. We simply measure the energy that's wasted and calculate the saving for the case in hand. You are provided with a true and objective basis for optimising the way lighting is controlled.

Be sceptical about dubious blanket statements on huge saving percentages in connection with lighting automation – or about jaw-dropping example calculations. With our PROLog and PROLog software, we can provide you with an instrument that is capable of working out definite and actual potential savings quickly, easily and accurately. Together with us, you can significantly bring down energy consumption, energy costs and CO₂ emissions. Saying to what extent is only possible on a case-to-case basis.



Our technology avoids wastage: To begin with, usage profiles typical for a room can provide the basis for a rough estimate. To obtain a definite prediction of the energy, lighting and service costs that can be saved in a specific building, it is necessary to record room usage and light conditions there over a period of approximately 2–4 weeks. We can also produce a cost and CO₂ emission forecast for your building based on the use of STEINEL Professional sensor products. May sound complicated, but it isn't.

Operating independently of the mains power supply, STEINEL PROLog is a measuring instrument that is positioned extremely easily and unobtrusively below the ceiling at various important points in a building. It records approximately 400,000 measurement readings of actual usage and lighting over a period of 4 weeks. The data measured are then entered in coded form into our PROLog software. Now we know for a fact:

ANALYSIS

- How long daylight was sufficient for the required light level.
- How people actually used the area.
- How long artificial light was switched on for.
- How long artificial light was switched on for when it needn't have been.

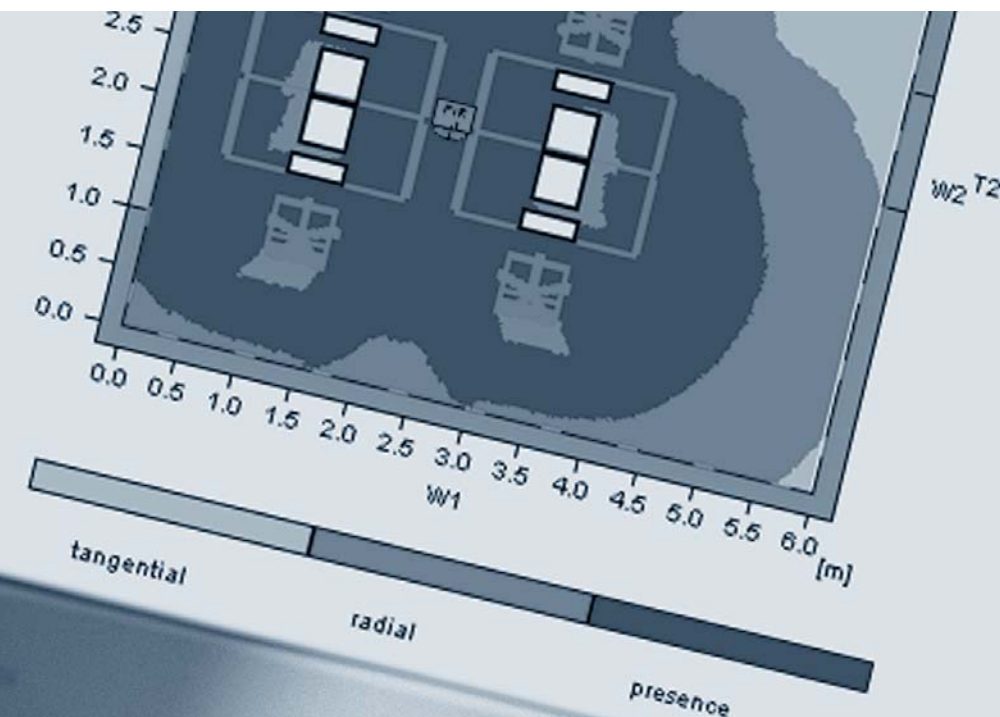
You now see the ACTUAL and IDEAL value in black and white.

All measured rooms, storeys, corridors, stairwells, offices etc. can be stored and planned in the software. Using further data, such as the wattage of lights, energy tariffs, service tariffs, lamp life etc., it is possible to provide a projection of total savings over one, three or ten years. Together with RELUX, lighting can be planned from start to finish for your specific situation!

This expertise is the mark of professionals. You and us!



Planning Intelligence



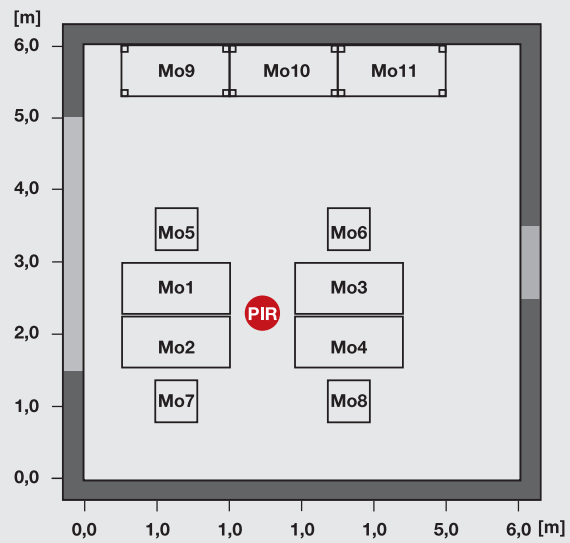
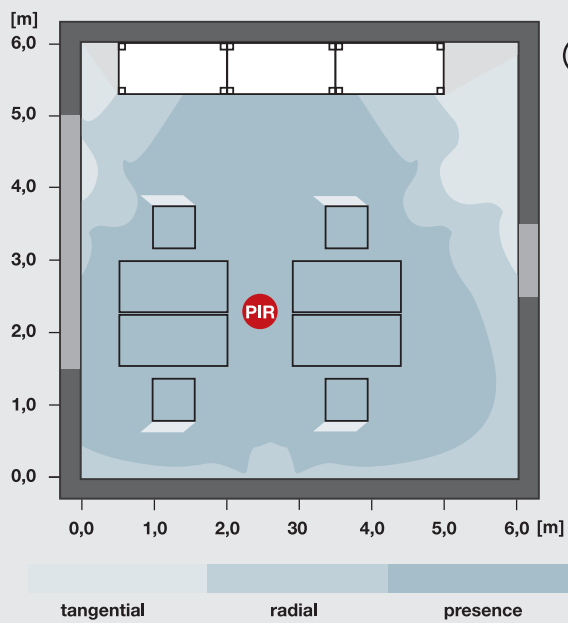
To ensure that motion and detection sensors are planned and operate to meet the requirements in rooms of all types, RELUX Professional gives you a module for integrating detectors in a planning software tool.

Software-assisted planning

RELUX Informatik AG and STEINEL Professional have worked closely together to develop a software tool that allows you to plan complex lighting tasks with motion and presence detectors operating in line with demand. RELUX Professional is a major development step forward in particular for common spaces, work rooms and offices. Assisted by software, every room situation can be fed in and equipped exactly as required. All motion and presence detectors as well as sensor-controlled lights from STEINEL Professional are available with exact detection characteristics. You can download the software free of charge from www.relux.ch.



PLANNING



RELUX®








Further details on software assistance for planning motion-detector installations are available from Steinel info@steinel.de or info@relux.ch



Product Segments for Lighting Automation an Overview

Motion Detectors		Presence Detectors
		
		
Outdoors	Indoors	Indoors
Watching over outdoor areas and buildings, for controlling lights efficiently. Wall, ceiling and corner mounting possible.	Watching over thoroughfares in buildings, for controlling existing lights efficiently. Wall, ceiling and recessed versions possible.	Ultra-precision surveillance for common and highly frequented areas in buildings. Light only 'ON' when someone is present, automatic constant lighting control and dimming function.
IR-Technology	HF and IR-Technology	HF and IR-Technology
Page 34	Page 62	Page 84

SOLUTIONS

Practical SensorLights		Sensor-Switched Floodlights
		
		
Outdoors	Indoors	Outdoors
Combined systems of light plus integrated sensor.	Combined systems of light plus sensor for use in buildings, for passageways and corridors, for WCs, cloakrooms, stairwells etc.	Instantaneous bright light as soon as movement is detected. LED or halogen, all areas around buildings.
IR-Technology	HF-Technology	IR-Technology



You will find further decorative SensorLights for indoors and outdoors in our separate "Style" catalogue.

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Passive Infrared (PIR): Detecting Heat Radiated from the Body

Detection zones for infrared sensors



Tangential coverage – movement across the sensor detection zone (nominal reach)



Radial detection – movement directly towards sensor (detection reach less than normal reach)

There isn't a right or a wrong technology, there's just the option that suits a specific lighting situation. The solution you choose all depends on what you want it to do.

PIR sensors in theory

Infrared sensors receive heat radiated from the human body. Segment lenses divide the detection zone into passive and active zones. This way, the highly sensitive sensors can detect persons or warm objects moving between the zones as a change in voltage. Even the smallest of movements are registered. The quality is governed by resolution (number of detection zones), design and the software.

PIR sensors in practice

Movements at right angles to the sensor (tangential movement) can be detected particularly well by passive infrared sensors. With radial movements, reach is usually shortened because detecting a change in

temperature in this walking direction is more difficult. The point at which sensors are positioned should ensure they are not disturbed or distracted by obstacles or objects.

PIR sensors from STEINEL Professional

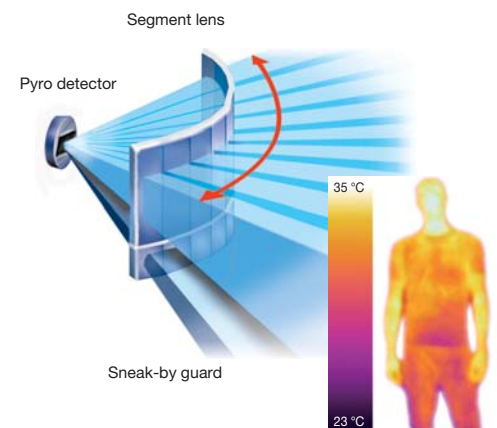
Developing our sensors, we pay attention to precision and reliability. Technological advances, such as multi-lens and multi-sensor technology, permit tremendous accuracy in reach settings and detection spectrum. Working with an exceptionally high number of switching zones, our sensors ensure precision and reliability.

SENSOR SYS



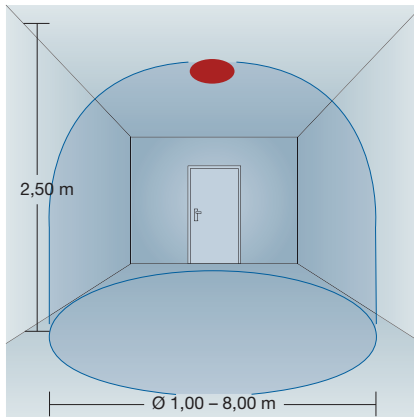
Benefits of PIR

- Very good tangential detection
- Detection reach and angle of coverage can be set with precision
- High number of switching zones
- Also suitable for outdoors as only heat radiation is detected
- Twilight threshold and light 'ON' duration and detection zone can be set to suit individual needs
- Electronic temperature compensation to avoid differences between winter and summer detection quality outdoors



TEM

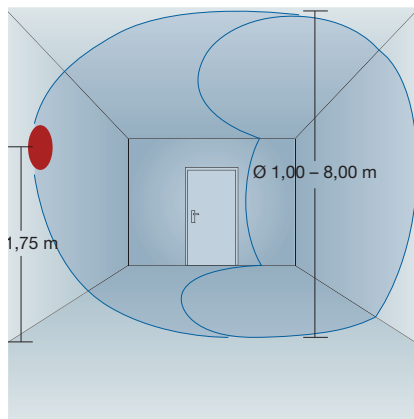
High-Frequency Technology: Active Detection of Movements



With the STEINEL Professional range providing hi-tech for every-day use, we are the world's first company to have researched and developed high-frequency sensor systems for application in lighting automation. Perfected and suitable for routine tasks, it's now available to you.

High-frequency sensors in theory

High-frequency sensors actively scan your detection zone. The signals are emitted, reflected as an echo and received again a moment later – any change in echo means a movement is registered. This takes place instantly and irrespective of temperature – in other words, without direction of movement or temperature restricting sensitivity.



A 360° detection zone with an aperture angle of 160° and reach of up to 8 m all round reliably watches over rooms as large as 50 m².

High-frequency sensors in practice

High-frequency sensors can be used to provide rooms with uninterrupted, reliable coverage. Walking direction is irrelevant. High-frequency sensors are highly sensitive and extremely precise in the way they respond.

Detecting any movement immediately, the sensor switches light 'ON'. In comparison to good-quality PIR sensors, HF-sensors need not necessarily be given preference nor must they be dismissed. Their use always depends on the particular room and on the specific detection task they are required to perform. STEINEL Professional offers the right sensor technology for every situation.

SENSOR SYS



Benefits of HF

- Uninterrupted coverage
- Electronically adjustable reach
- Detection through glass, wood, walls etc.
- "Invisible" sensor that can be integrated in lights
- Can be concealed behind trim panels
- Uninterrupted signal propagation
- Good quality of detection, even in long rooms, stairwells etc.
- Extremely fast detection of the smallest of movements
- Operates irrespective of ambient temperature and temperature of objects
- Reach, twilight threshold and light 'ON' duration can be set to suit individual needs

TEM

Motion and Presence Detectors

The chief difference between motion and presence detectors lies in their detection properties and areas of use. The particular situation determines which technology is used where.

Dynamic means effective:

Motion detectors

Motion detectors respond to walking movements. They perceive these in the selected detection zone and respond to them: this means light is switched 'ON' when a movement is detected once ambient light levels fall below a preselected threshold. Light switches 'OFF' again after the period you set. Their use is recommended for detecting moving objects outdoors or in thoroughfares indoors.

High-resolution and sensitive:

Presence detectors

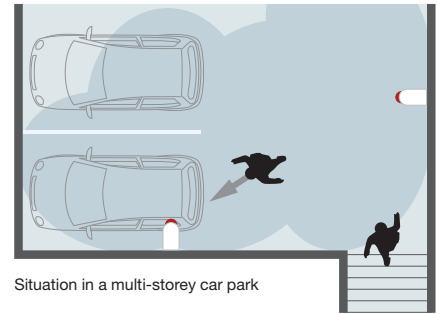
Presence detectors respond to the tiniest movements using extremely high-resolution, precision sensor technology.

This is important indoors, particularly in conjunction with sedentary activities (offices for desk work, classrooms etc.) as well as for specific lighting tasks, such as in sports halls, changing rooms, corridors and storage areas. The light sensors continuously measure ambient light and constantly compare it with the preselected level. Light is switched on when ambient light falls below a specific threshold while people are present. If it's bright enough, light is automatically switched off even if people are in the room.

Precision squared

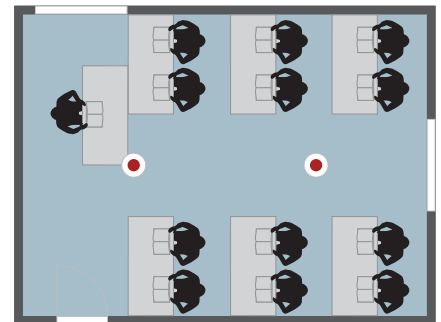
The detection zones of our IR-presence detectors are not round but square. This is not only far more precise and practical but also better to plan – there are no overlaps and no areas omitted. In addition to this, the square detection zones provided by STEINEL Professional presence detectors are precision-scalable.

Detection zones with motion detectors







Situation in a multi-storey car park

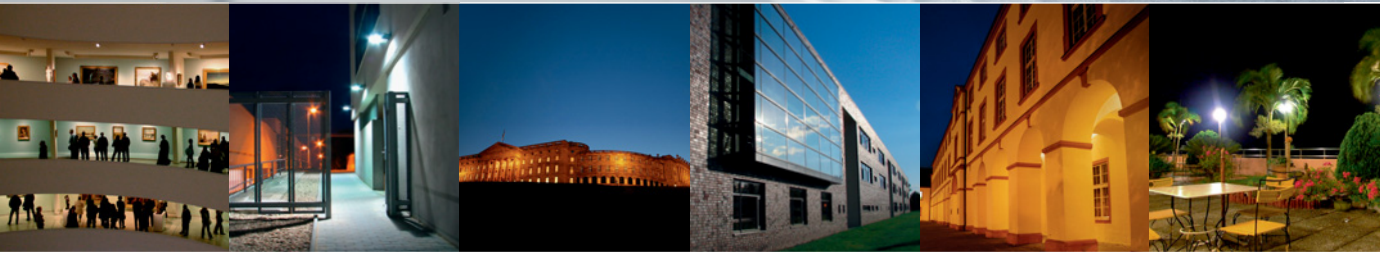
Detection zones with presence detectors



Classroom situation, detection by the Presence Control Pro IR Quattro with square detection characteristic

DIFFERENCE

				
	Motion detectors		Presence detectors	
Detection	Walking movements		Even the tiniest movement, also sedentary activities	
Application	Indoors and outdoors Indoors: garages, corridors, storerooms Outdoors: driveways, entrances, car parks, carports, fronts of buildings Motion detectors provide convenience, safety and security		Indoors Offices, classrooms, conference rooms etc. High rooms: warehouses, sports halls etc. Additional control of heating, ventilation, air-conditioning or constant lighting control Presence detectors provide maximum energy efficiency and convenience	
Connection capability	Light Relay switching output additional loads		Light Heating, ventilation, air-conditioning (HVAC) 1 - 10 V dimming interface DALI, KNX	
Light 'ON' criterion	Movement after ambient light has fallen below threshold		Light channel: movement/presence when ambient light has fallen below threshold HVAC channel: movement/presence	
Light 'OFF' criterion/light measurement	Load/artificial light 'ON' and light measurement deactivated while movement is being detected. Period light stays 'ON' for starts after last detected movement, load/artificial light then switches 'OFF'		Light 'OFF' if ambient light is sufficient despite detection of presence/movement Light measurement remains activated HVAC channel: is switched 'OFF' once the period it is set to stay 'ON' for elapses after last detected movement	
Other			More setting capabilities for matching sensor to control task Significantly greater detection precision Different options for different room types	




















Motion Detectors

Hi-tech for professionals, intelligent motion detectors for everyday use. Our new generation sets new benchmarks in energy efficiency, ease of installation and design.

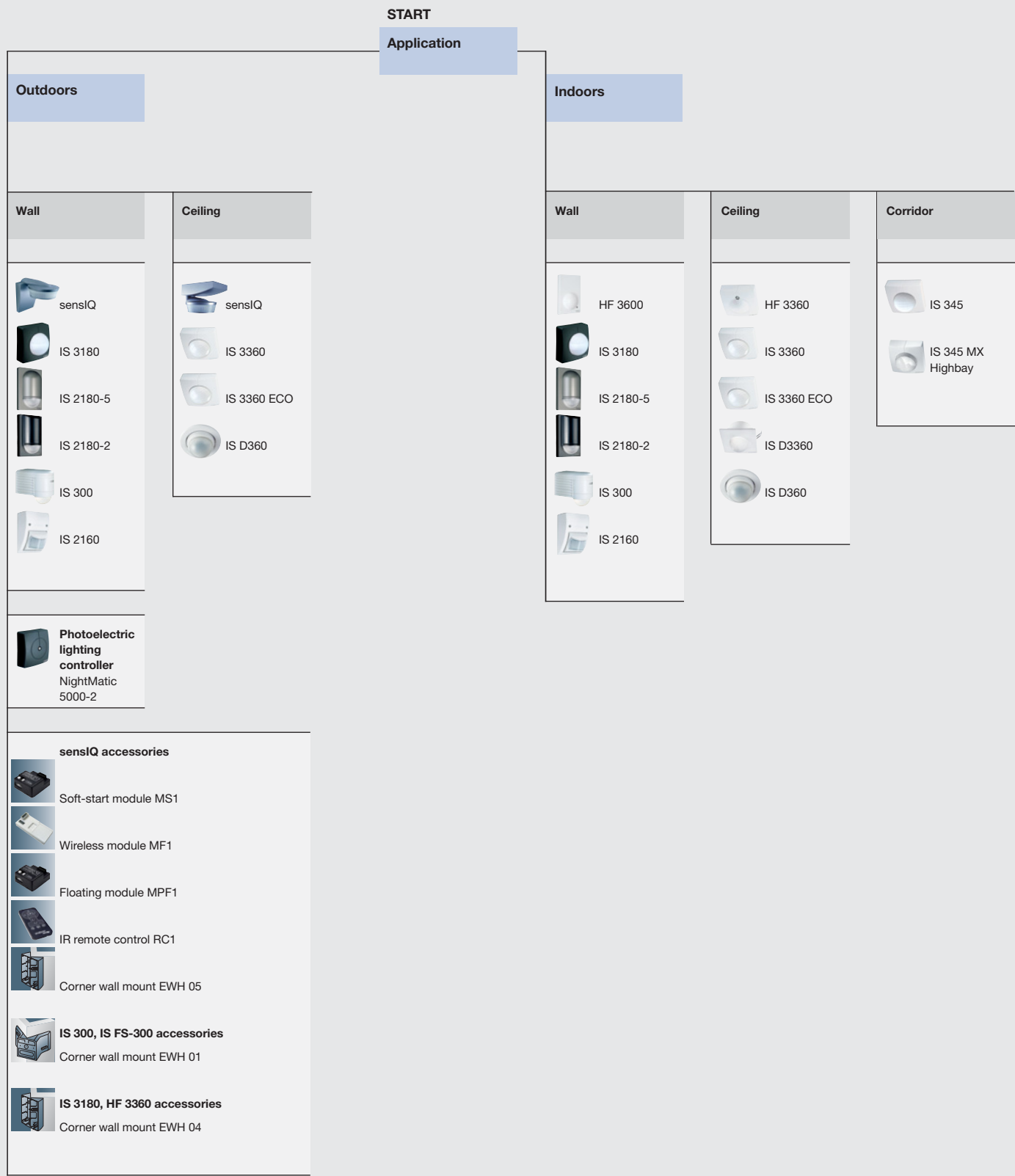
Overview

Motion Detectors

	Motion detectors								Motion Detectors
									
	sensIQ	IS 3180	IS 3360	IS 3360 ECO	IS D3360	IS 345	IS 345 MX Highbay	HF 3360	
Indoors	●	●	●	●	●	●	●	●	Presence Detectors
Outdoors	●	●	●	●					
For the wall	●	●							
For the ceiling	●		●	●	●			●	
For corridors						●	●		
Mounting height	2.00 – 2.50 m	2.00 m	2.50 – 4.00 m	2.50 – 4.00 m	2.50 – 4.00 m	2.50 – 3.00 m	4.00 – 12.00 m	2.00 – 2.50 m	SensorLights
Switching capacity	2500 W max.	2000 W max.	2000 W max.	2000 W max.	2000 W max.	2000 W max.	2000 W max.	2000 W max.	
Detection angle	300°	180°	360°	360°	360°	180°	180°	360°	
Reach	20 max.	20 m max. or 8 m max.	20 max.	10 m max.	20 m max.	20 x 4 m max.	30 x 4 m max. radially	8 m max.	
Corner wall mount	optional	optional						optional	
Special features	mech. reach setting	swivelling multi-lens						detection regardless of temp.	Wireless Sensor Systems
Accessories	Remote control RC2, soft-start module MS1, wireless module MF1, floating module MPF1								
Page	34	42	44	44	46	48	50	52	Support, Service
	Motion detectors						Photoelectric lighting controller		
									
	IS 2180-5	IS 2180-2	HF 3600	IS 300	IS D360	IS 2160 ECO	NightMatic 5000-2		
Indoors	●	●	●	●	●	●		Sensor-Switched Floodlights	
Outdoors	●	●		●		●	●		
For the wall	●	●	●	●		●	●		
For the ceiling					●				
For corridors									
Mounting height	2.00 m	2.00 m	2.00 – 2.50 m	2.00 m	2.50 m	2.00 m	no limit	Wireless Sensor Systems	
Switching capacity	1000 W max.	1000 W max.	1000 W max.	2000 W max.	1000 W max.	600 W max.	2000 W max.		
Detection angle	180°	180°	360°	300°	360°	160°			
Reach	20 m max. or 8 m max.	12 m max. or 5 m max.	8 m max.	12 m max.	8 m max.	12 m max.			
Corner wall mount	included	included	included	optional					
Special features	swivelling multi-lens	swivelling multi-lens	detection regardless of temperature					Support, Service	
Page	54	56	58	60	62	64	66		

Motion Detectors

Decision matrix for motion detectors



**Infrared or high-frequency –
with STEINEL Professional, intelligence is
built in as standard**

Our range of motion detectors covers the entire spectrum of demand in professional applications: versatile and system-based – cleverly designed and practical to use.

Technology of the next generation

Compromising on nothing, we have developed our motion detectors for professional needs. Innovative technologies, such as the multi-lens and multi-sensor technology as well as the astonishingly high number of switching zones and detection levels provide maximum accuracy to ensure precision coverage. Using infrared or high-frequency sensors, our highly advanced sensor technology reliably detects movements anywhere in the detection zone.

Professionalism is a matter of detail

Our motion detectors benefit from unique features:

- highly advanced evaluation software
- optical systems computed, designed and produced in-house
- high-quality, long-life electronics
- high-quality components for professional applications

All made by STEINEL Professional.
100% German Quality – made in Europe.

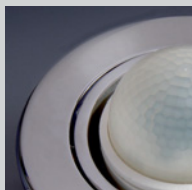
Motion Detectors

Presence Detectors

SensorLights

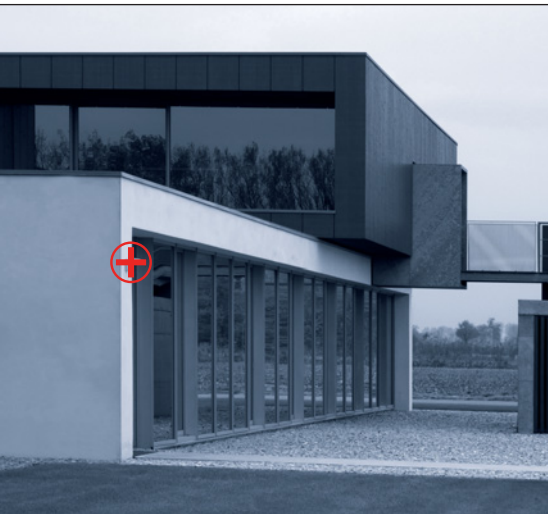
Sensor-Switched
Floodlights

Wireless Sensor Systems



Support, Service

Motion Detector for Walls and Ceilings



sensIQ stainless steel



sensIQ®

- Reference-class infrared wall and ceiling sensor
- 300° coverage angle with 180° angle of aperture
- Reach can be adjusted with precision in 3 separate directions

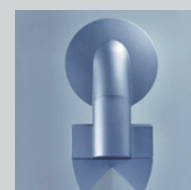
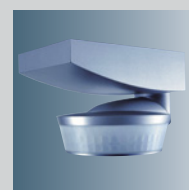
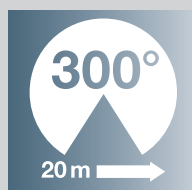
The sensIQ – a spectacular appearance

We feel the sensIQ is one of the most cleverly thought-through and best motion detectors of its type. You'll be delighted with the sensIQ from STEINEL Professional: The sensIQ not only looks good, it's extremely intelligent too. Our high-end reference-class infrared motion detector impressively demonstrates STEINEL Professional's innovative potential. It provides numerous ingenious features: The first sensor for all requirements and coverage angles from 200° to 300°. A remote control makes handling exceptionally convenient. Its detection reach can be adjusted easily, quickly and accurately on the unit itself – in three different directions. This saves you the time that used to be required for shrouding the lens or pressing down the sensor head to regulate reach as well as the bother of pacing out distances in walk tests. We also set high standards when it comes to design. The sensIQ has received the internationally coveted IF Design Award. It's the perfect symbiosis of professional sensor technology and contemporary design – who wouldn't be envious of a product like this.



Detection zone

Installation



Max. reach:
20 m tangentially
Angle of coverage: 300°
Angle of aperture: 160°

Wall and ceiling mounting.
Wall mount for installing
sensor on corners



sensIQ black



sensIQ white

Less effort – more options

For us, innovation means unrelenting optimisation. This is why we provide you with accessories for our sensIQ models that leave no questions unanswered: Soft-start module, wireless module or floating module optionally adapt the sensIQ to your specific requirements. The remote control makes operation extremely simple.

Basic settings on the unit

You can adjust three important parameters directly and conveniently in the unit itself: the twilight setting, time setting and reach setting. For the twilight setting, the sensor's response threshold can be set to values of between 2 lux and 2000 lux. The time you want the connected load to stay 'ON' for at night can be infinitely varied from 5 seconds to 15 minutes using the time-setting capability. A pulse function is also provided. The reach can be adjusted in 3 directions by 3 control dials (100° respectively) independently from one another. A table gives you a practical summary of reach distances for different mounting heights.

Benefits

to electricians:

- Reach can be set on the unit to the accuracy of a metre, in 3 separate directions – easily, quickly, accurately
- Fast installation
- Large terminal compartment
- One sensor for all detection needs
- Wall and ceiling mounting
- Wall mount is available for external corners to make sensor and building a well-balanced unit
- Control dial for setting time and twilight response threshold
- Optional modules providing installation benefits: wirelessly interconnected or floating

Benefits to consumers:

- First-class detection properties, precision adaptability
- Twilight response threshold can be set by remote control
- Holiday function for warding off intruders, manual override, permanently 'OFF'
- Soft-start module with basic brightness: lighting with greater aesthetic appeal, longer lamp life
- Unbeatable value for money
- Top quality for long service life
- Award-winning design

Accessories



Soft-start module MS1: Gently switches connected light 'ON' and 'OFF'.



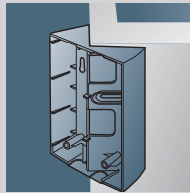
Wireless module MF1: as a means, for example of creating wirelessly interconnected groups tailored to individual needs.



Floating module MPF1: for switching independent appliances, suitable for SELV, 240 V max., 10 AX



IR remote control RC1 (included): For selecting functions and special functions, setting twilight response threshold and detection zone



Corner wall mount

Motion Detectors

Presence Detectors

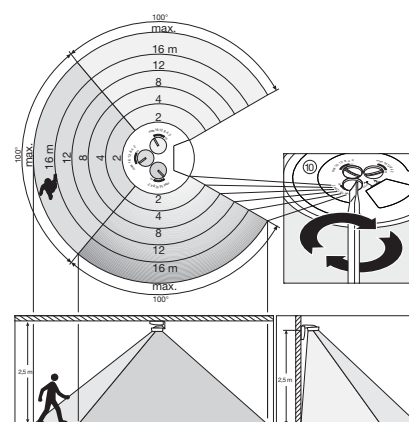
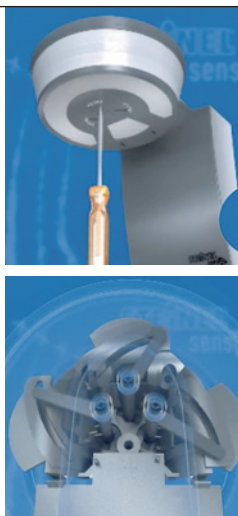
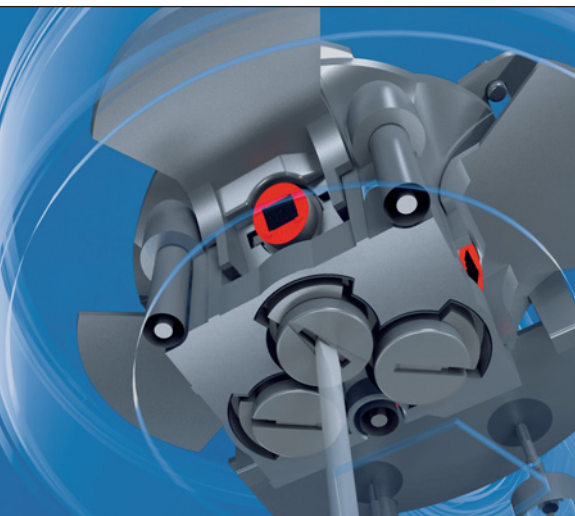
SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Detection zones and settings



Simple and well structured – operation and use

The sensIQ benefits from a number of intelligent programmes and modes that can all be selected directly on the unit or using a practical remote control that comes with the sensor. This way, you stay completely in control despite the system's technical complexity. Here's a summary of the main setting options:

Twilight setting (response threshold)

The response threshold can be set to between 2 and 2000 lux. You can save the twilight response threshold using the remote control.

Reach setting

Three control dials set reach in three directions (100° each) to the accuracy of a metre.

Switch-off delay

The time you want the light to stay 'ON' for can be infinitely varied between 5 sec. and 15 min.

Pulse mode

In the pulse mode, output is activated for 2 seconds (e.g. for staircase lighting time switches). Afterwards, the sensor does not react to movement for approx. 8 sec.

Special functions:

Holiday mode

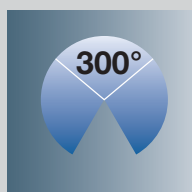
The sensIQ provides a number of special functions. One of them is the

holiday mode. This is activated at the relevant button on the IR remote control. The holiday function simulates occupancy to protect your home from intruders while you're away. When the twilight threshold is reached, the connected load is switched 'ON' and 'OFF' at certain programmed times. Normal sensor mode remains active.

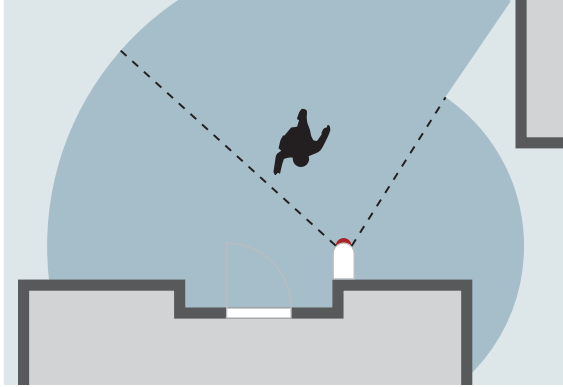
Manual override setting

This function can also be selected using the remote control supplied with the sensor. Pressing the relevant button switches the connected load 'ON' for 4 hours. After this period, the sensor returns to sensor mode automatically.

Setting options



Detection reach is set mechanically to the accuracy of a metre. Three different directions, independently of each other, with a max. detection range of 300°. Easily defined at three control dials.


sensIQ

EAN	black 4007841 600518 white 4007841 600617 st.-steel eff. 4007841 600716
Dimensions (w x h x d)	144 x 113 x 172 mm
Output	- 2500 W max. (resistive load, e.g. filament bulb) - 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - max. 1000 W (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy bulbs, max. of 8 each, $C \leq 176 \mu F$
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)
Detection angle	300° with 180° angle of aperture as well as sneak-by guard for coverage directly below the sensor; capability of masking out individual detection segments
Reach	Adjustable in 3 directions by control dial, (2 – 20 m max., tangentially, temperature-stabilised)
Sensor system	4 sensors, 6 levels for long-distance detection and 5 for sneak-by guard, 1360 switching zones
Time setting	5 sec. – 15 min., pulse mode (approx. 2 sec.)
Twilight setting	2 – 2000 lux
Manual override	selectable (4 h)
IP rating	IP 54
Protection class	II
Ambient temperature	-20° to +50° C
Accessories	- Soft-start module MS1, 100 W max. EAN 4007841 600815 - Wireless module MF1 EAN 4007841 736712 - Floating module MPF1 EAN 4007841 609115 - IR remote control RC1 EAN 4007841 601416 - Corner wall mount for installing sensor on external corners EAN 4007841 600969 (black), EAN 4007841 601966 (white), EAN 4007841 602062 (stainless-steel effect)

Motion Detectors

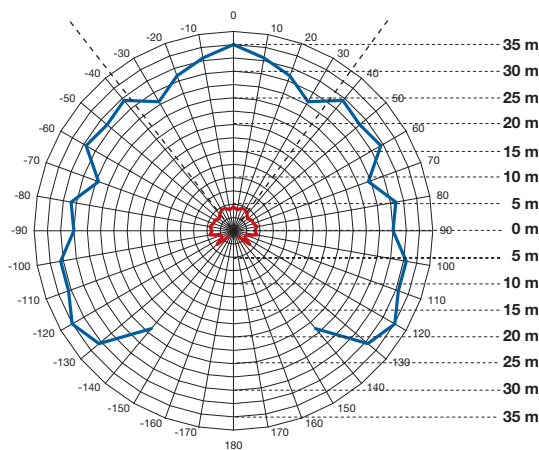
Presence Detectors

SensorLights

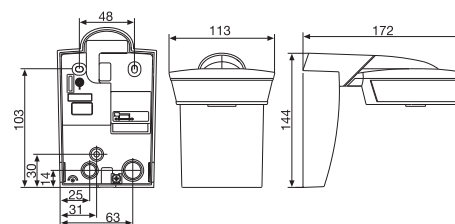
Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service



sensIQ reach, mounting height 1.8 m
(blue = tangential walking direction, red = radial walking direction)

FUNCTIONAL
36 month
WARRANTY
STEINEL
German
Quality


sensIQ Accessories

Remote control



- Twilight response threshold is set at the press of a button. The current setting can be changed as often as you wish.
- EE-PROM technology makes the setting memory non-volatile
- Holiday function, manual override, permanent light 'OFF'
- Controlling the optional soft start module

Wireless module



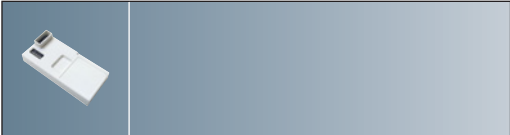
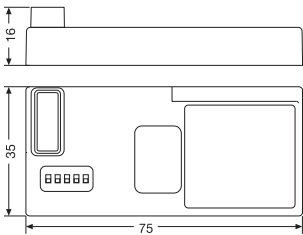
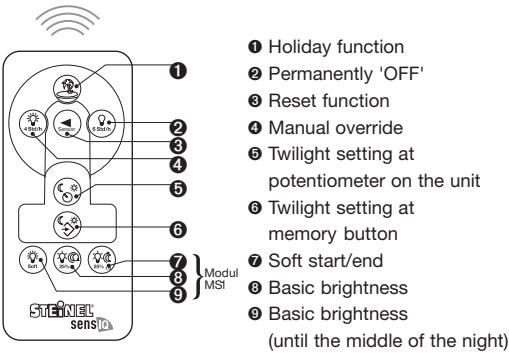
- Suitable for sensIQ and RS PRO 1000/2000
- Convenient actuation of receivers (indoors/outdoors)
- Bi-directional (transmitter/receiver)
- Suitable for indoor and outdoor use

Full functionality at the press of a button: remote control

The remote control is included with every sensIQ. All programmes, functions and modes can be selected ever so conveniently by remote control. The holiday function, for instance, simulates occupancy to protect your home from intruders. It can be activated directly and without having to take the time of searching for it by pressing the appropriate button on the remote control. Even the optional soft-start module can be adjusted with the convenience of remote control.

Wireless module MF1

Save yourself the need for permanently installed switching cables. Wireless modules can be used for interconnecting sensIQ motion detectors (as well as sensor and/or slave lights from the RS PRO series etc.) to create switching groups on the basis of bi-directional wireless links.



MF1

EAN	white	4007841 736712
Dimensions (w x h x d)	75 x 35 x 16 mm	
Voltage	via sensIQ or RS PRO 1000/2000	
Transmitter range	up to 100 m with uninterrupted line of vision, dia. of 30 m indoors	
IP rating	IP 54	
Operating frequency	868.3 MHz (ISM band)	
Transmitter power	less than 1000 µW	
Programming	at 5-way DIP switch 32 possible addresses per channel	
Number of receivers	Any	

RC1	
EAN	black 4007841 601416
Dimensions (w x h x d)	143 x 114 x 175 mm
Operating voltage	Battery CR 2025

Soft-start module

Floating module



- Gently switched light 'ON' and 'OFF'
- Basic brightness (if required until the middle of the night)
- Connection of an additional load (100 W max.)
- Soft-start/dimming by reverse phase



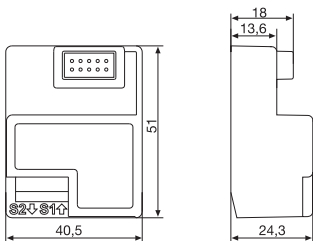
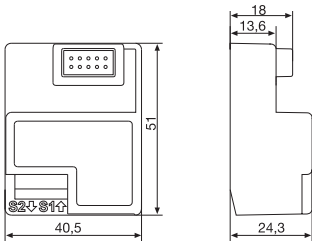
- Floating operation of independent devices
- Suitable for safety extra-low voltage


Soft-start module MS1


The soft-start module gently increases lamp output to 100% power. Light is gently switched 'ON' and 'OFF' by pressing the button on the remote control. You can set a basic brightness (25%). When movement is detected while the light is 'ON' permanently at 25% light output, it is taken to full power. The soft-start module MS1 is rated for connecting as many as two additional loads with a maximum combined wattage of 100 W.

Floating module MPF1

The floating module MPF1 permits the use of a floating output on the sensiQ. This provides a convenient way of operating independent devices or systems. The module can also be activated using the IR remote control included with the SensiQ: this switches the floating output as well as the 2500 W output on the sensiQ.



	
MS1	
EAN	black 4007841 600815
Dimensions (w x h x d)	51 x 40.5 x 24.3 mm
Voltage	via sensiQ

	
MPF1	
EAN	black 4007841 609115
Dimensions (w x h x d)	51 x 40.5 x 24.3 mm
Voltage	via sensiQ
Output	0 – 240 V 10A filament bulbs or 10 AX fluorescent lamp load Suitable for safety extra-low voltage (SELV)

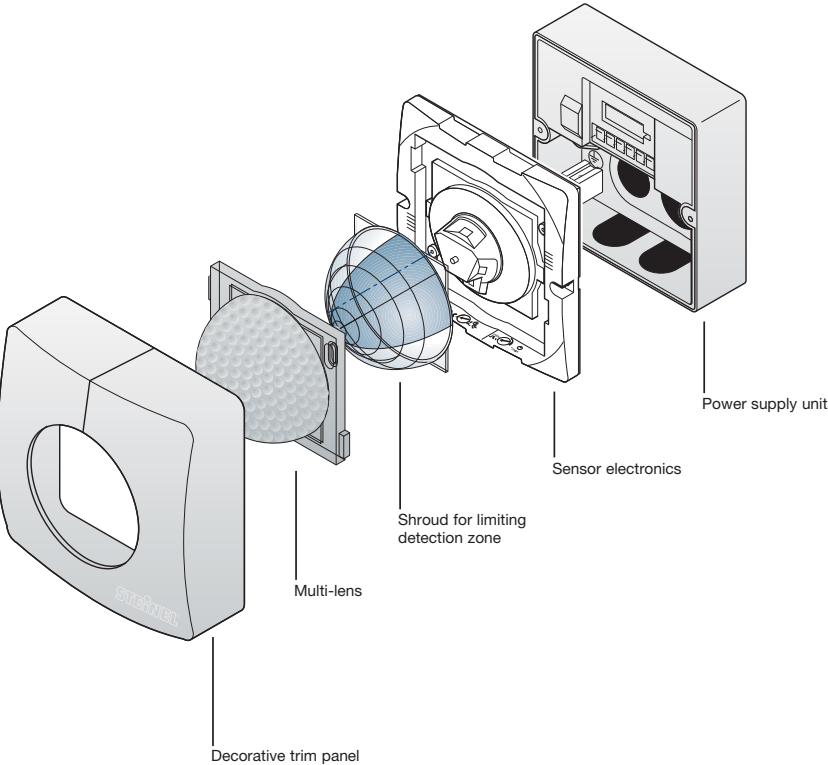
Motion Detectors



Design of modular-system motion detectors

Straightforward, flexible, intelligent – sensors based on the modular principle

You can see how easy our modular sensors are to install simply by looking at them. The standardised power supply unit is quickly pre-installed. The large terminal compartment makes wiring easy and convenient too. After fitting the sensor module, the sensor is completely assembled. The shrouds provided are used for limiting the detection zone. Reach is adjusted quickly and accurately by re-positioning the plug-in multi-lens. There's no need to spend time handling fiddly tools and countless components.



Benefits

Motion detector for indoors and outdoors

- Modular design
- Large terminal compartment with plug-in terminals for fast, easy wiring
- Shrouds for limiting the detection zone
- Protection from inadvertent adjustment, damage and wear from weathering
- Fast, exact reach adjustment by moving the multi-lens
- Potentiometers for precision and convenient selection of time and twilight settings

Motion Detectors

Presence Detectors

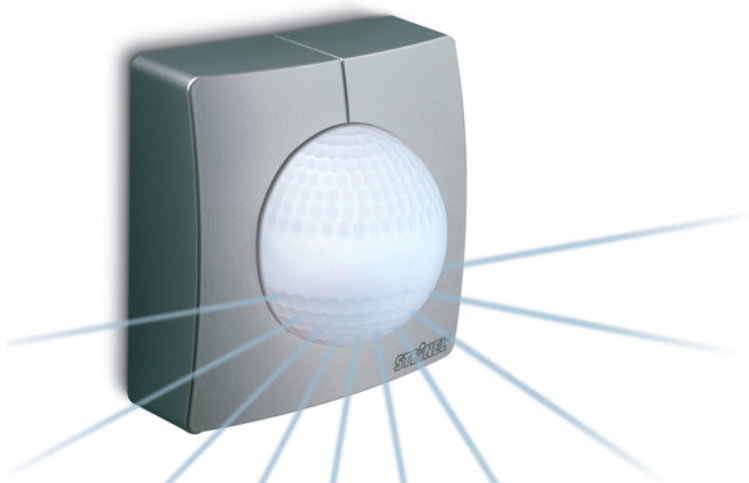
SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Motion Detector for the Wall

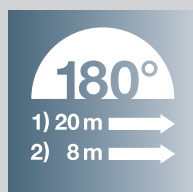


- Infrared wall sensor
- for watching over large areas
- Reach: 4 – 8 m, 8 – 20 m adjustable in no time at all
- Angle of coverage: 180°
- Angle of aperture: 90°
- Pulse function ('ON' for 2 sec.)
- Teach mode (saves ambient brightness)
- Anti-glare protection, overload protection
- Recognition of sensors connected in parallel

The professional detector for large expanses: the IS 3180

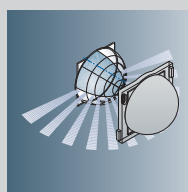
The IS 3180 has 448 switching zones and 7 detection levels with a 180° coverage angle and a 90° angle of aperture. It is equipped with two highly sensitive pyro-sensors in dual-element design and set at an angle of 68° to each other. Nothing escapes the attention of the IS 3180 over a distance of up to 20 metres. The IS 3180 is a true professional when it comes to watching over expansive premises and large spaces of up to 500 m². The infrared wall sensor's intelligent electronic system is tailored to the requirements of professional use. It comes with a switching capacity of 2,000 watts, parallel-connected sensors are automatically identified, their brightness detection capability deactivated. The teach mode demonstrates the ability of the easy-adjustment potentiometer to learn and adapt. Nobody gets round this sensor!

Detection zone



Max. reach:
20 m tangentially
Angle of coverage: 180°
Angle of aperture: 90°

Setting capabilities



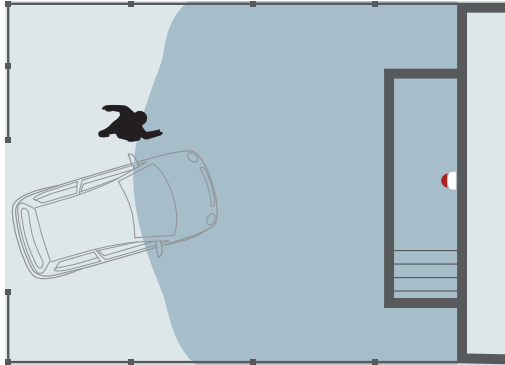
Shrouds: restrict the angle of coverage below the lens to suit requirements



Multi-lens: turns/moves for setting reach

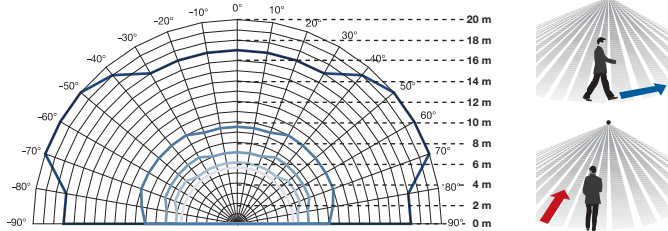
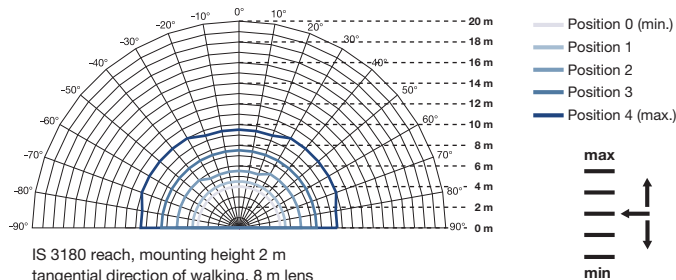


Time and twilight response threshold are set at a potentiometer; manual override (4h) by means of mains power switch



IS 3180

EAN	black white st.-steel eff.	4007841 606114 4007841 606213 4007841 606312
Dimensions (w x h x d)	95 x 95 x 65 mm	
Output	<ul style="list-style-type: none"> - 2000 W max. (resistive load, e.g. filament bulb), - 1000 W max. (uncorrected, inductive, $\cos \phi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each, $C \leq 176 \mu F$ 	
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)	
Detection angle	180° with 90° angle of aperture	
Reach	Basic setting 1: 8 – 20 m max., tangentially; temperature-stabilised Basic setting 2: 4 – 8 m max.; temperature-stabilised + precision adjustment by re-positioning the lens and shrouds	
Sensor system	7 detection levels, 448 switching zones	
Time setting	5 sec. – 15 min., + pulse mode (approx. 2 sec.)	
Twilight setting	2 – 2000 lux + teach mode	
Manual override	selectable (4h)	
IP rating	IP 54	
Protection class	II	
Ambient temperature	-20° to +50° C	
Accessories	<ul style="list-style-type: none"> - Corner wall mount for fitting on internal and external corners EAN 4007841 648015 (black), EAN 4007841 648114 (white)	



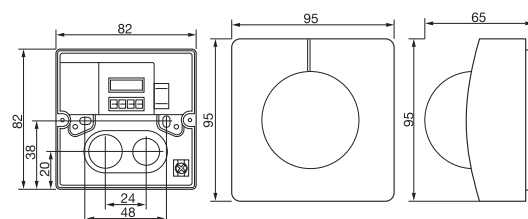
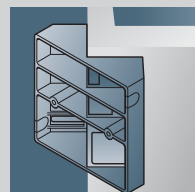
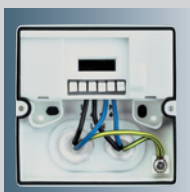
FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



Installation

Accessories



Large connection compartment with plug-in terminals: fast, convenient power supply unit wiring

Straightforward installation: pre-install power supply unit, plug in sensor electronics to suit the application

Corner wall mount for installation on internal and external corners

Motion Detectors

Presence Detectors

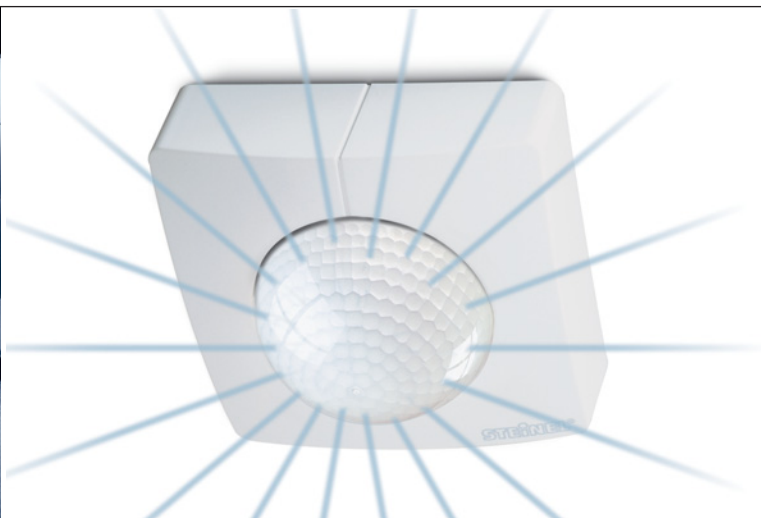
SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Motion Detector for the Ceiling



- Infrared ceiling sensor
- 360° all-round vision for watching over every inch of high spaces and large areas (up to 4 m)
- Max. reach: 20 m
- Angle of coverage: 360°
- Angle of aperture: 180°
- Pulse function ('ON' for 2 sec.)
- Teach mode (saves ambient brightness)
- Anti-glare protection, overload protection
- Recognition of sensors connected in parallel

360° all-rounder in professional use: the IS 3360

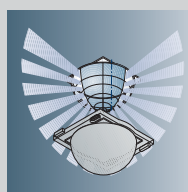
The IS 3360 boasts an astonishing 1,416 switching zones, 11 detection levels and a basic reach of up to 20 metres. The three highly sensitive infrared detectors are set at an angle of 120° to each other. It has a 360° detection angle with a 180° angle of aperture. With features like these, the highly advanced all-rounder has no problem whatsoever in providing precision, uninterrupted surveillance over huge spaces up to 1,000 m². High indoor spaces, such as warehouses or machine shops or foyers and stairwells are the ideal places for using the IS 3360. The ceiling motion detector has a switching capacity of 2,000 watts and, as you'd expect, also identifies parallel-connected sensors automatically. The slimmed-down version, the IS 3360 ECO, watches over a maximum radius of 10 metres.

Detection zone



Max. reach:
20 m tangentially
Angle of coverage: 360°
Angle of aperture: 180°

Setting capabilities



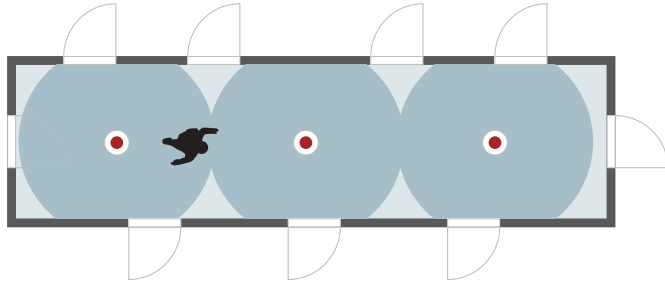
Shrouds: restrict the angle of coverage below the lens to suit requirements



Multi-lens: turns/moves for setting reach

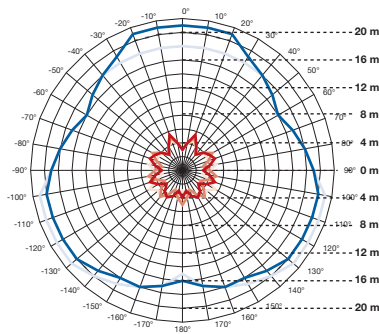


Time and twilight response threshold are set at a potentiometer; manual override (4h) by means of mains power switch

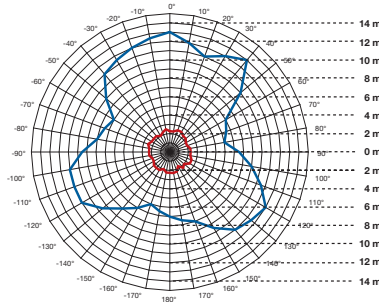


IS 3360, IS 3360 ECO

EAN	white white	4007841 606411 IS 3360 4007841 002732 IS 3360 Eco
Dimensions (w x h x d)	95 x 95 x 65 mm	
Output	<ul style="list-style-type: none"> - 2000 W max. (resistive load, e.g. filament bulb), - 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each, $C \leq 176 \mu F$ 	
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)	
Detection angle	360° with 180° angle of aperture	
Reach	20 m max., tangentially; temperature-stabilised = IS 3360 10 m max.; temperature-stabilised = IS 3360 Eco + precision adjustment using shrouds	
Sensor system	11 detection levels, 1416 switching zones	
Time setting	5 sec. – 15 min., + pulse mode (approx. 2 sec.)	
Twilight setting	2 – 2000 lux + teach mode	
Manual override	selectable (4h)	
IP rating	IP 54	
Protection class	II	
Ambient temperature	-20° to +50° C	



IS 3360 reach, precision adjustment by re-positioning the lens
(blue = tangential walking direction, red = radial walking direction)



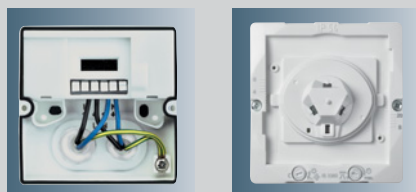
IS 3360 ECO reach, mounting height 2.8 m, precision adjustment by re-positioning the lens
(blue = tangential walking direction, red = radial walking direction)

FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality

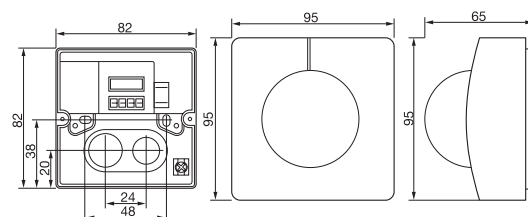


Installation



Large connection compartment with plug-in terminals: fast, convenient power supply unit wiring

Straightforward installation: pre-install power supply unit, plug in sensor electronics to suit the application



Motion Detectors

Presence Detectors

SensorLights

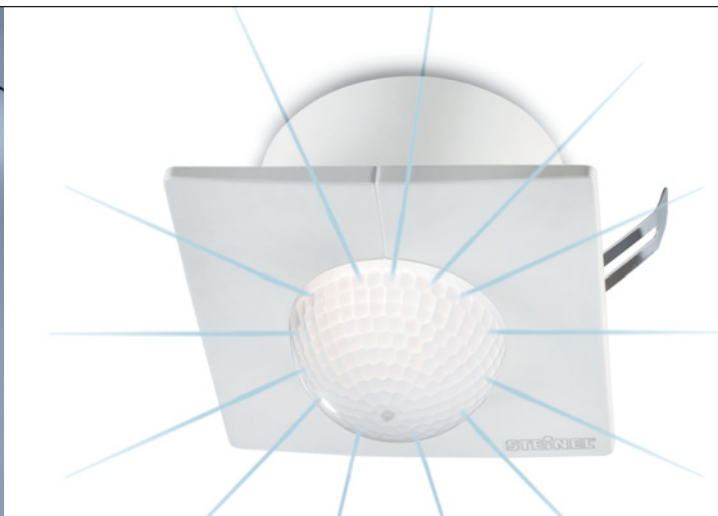
Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

IS D3360

Motion Detector for Recessing in Ceilings



- Infrared ceiling sensor
- 360° all-round vision for watching over every inch of large and high spaces (up to 4 m)
- Max. reach: 20 m
- Angle of coverage: 360°
- Angle of aperture: 180°
- Pulse function ('ON' for 2 sec.)
- Teach mode (saves ambient brightness)
- Anti-glare protection, overload protection
- Recognition of sensors connected in parallel

The professional all-rounder in a version for recessing in ceilings: the IS D3360

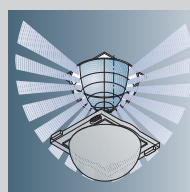
The IS D3360 impresses with all the technical features provided in the IS 3360: 1,416 switching zones, 11 detection levels, a basic reach of up to 20 metres, a coverage angle of 360°, an angle of aperture of 180°, a switching capacity of 2,000 watts. It, too, identifies sensors connected in parallel. The difference with this version is that it can be integrated elegantly and discreetly in false ceilings. The practical clip retaining system makes fast, easy work of installing the sensor component.

The IS D3360 is the ideal choice wherever a motion detector is required for a flush-fitting, unobtrusive look.

Detection zone

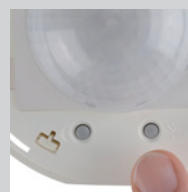


Max. reach:
20 m tangentially
Angle of coverage: 360°
Angle of aperture: 180°

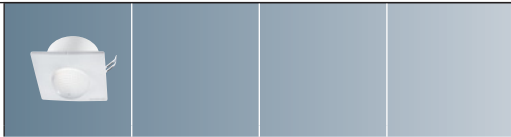
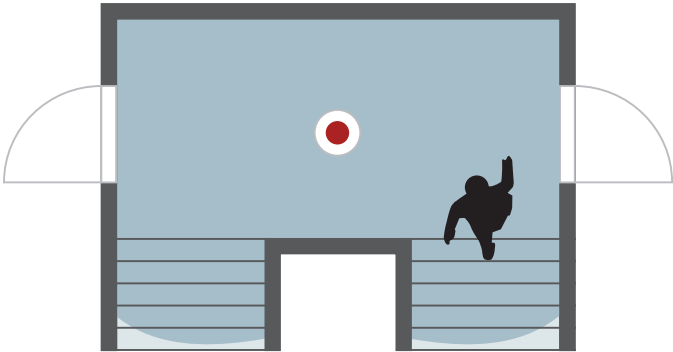


Shrouds: restrict the angle of coverage below the lens to suit requirements

Setting capabilities

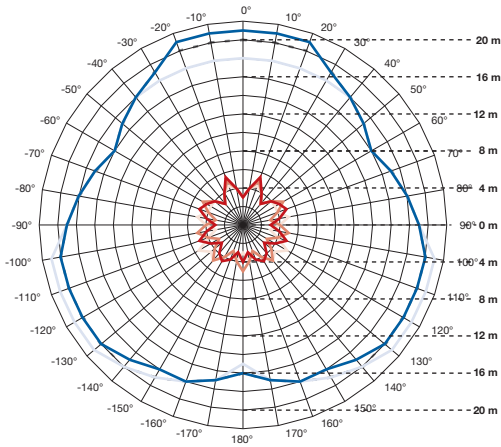


Microprocessor technology and pushbuttons for user-friendly timer adjustment to the accuracy of one second or one minute; manual override (4 hrs.) by means of mains switch



IS D3360

EAN	white	4007841 660918
Dimensions (w x h x d)	113 x 113 x 79 mm	
Output	<ul style="list-style-type: none">- 2000 W max. (resistive load, e.g. filament bulb),- 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps)- 900 W max. (series corrected)- 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$)- electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each, $C \leq 176 \mu F$	
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)	
Detection angle	360° with 180° angle of aperture	
Reach	20 m max., tangentially; temperature-stabilised + precision adjustment using shrouds	
Sensor system	11 detection levels, 1416 switching zones	
Time setting	5 sec. – 15 min., + pulse mode (approx. 2 sec.)	
Twilight setting	2 – 2000 lux + teach mode	
Manual override	selectable (4 h)	
IP rating	IP 20	
Protection class	II	
Ambient temperature	-20° to +50° C	



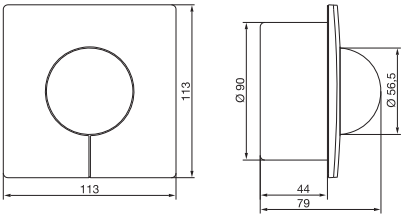
IS D3360 reach
(blue = tangential walking direction, red = radial walking direction)



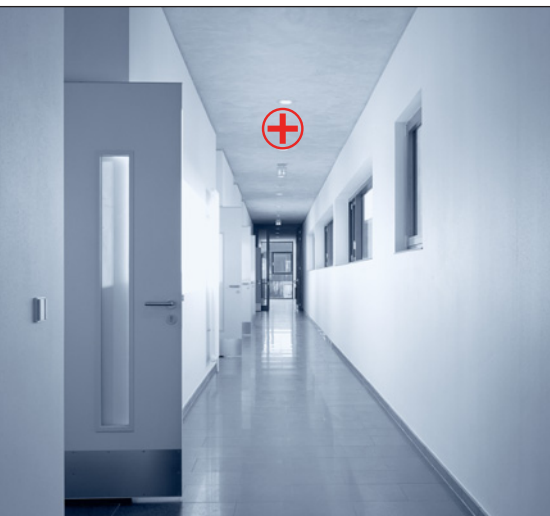
Installation



Pre-mount power supply unit and fit lens with designer-style surround



Motion Detector for the Corridor



- Infrared corridor sensor
- for watching over corridors and passageways of up to 2.5 m in height
- Detection zone:
 - a) radially: 12 x 4 m
 - b) tangentially: 20 x 4 m
- Angle of coverage: 180°
- Angle of aperture: 45°
- Pulse function ('ON' for 2 sec.)
- Teach mode (saves ambient brightness)
- Anti-glare protection, overload protection
- Recognition of sensors connected in parallel

With every corridor in view: the IS 345

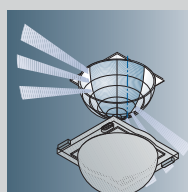
The multi-lens in the IS 345 has 280 switching zones on 5 detection levels. It provides a reach of 20 metres for the tangential direction of movement. This makes it the specialist in watching over corridors and passageways of normal height. At a distance of 4 – 6 metres from the sensor, it guarantees perfect detection of persons walking in the radial direction. The area covered in the tangential walking direction is 20 x 4 metres (mounted at a height of 3 m). The IS 345 provides you with on-demand lighting control in special-function rooms. This means maximum energy efficiency combined with the last word in convenience.

Detection zone



Max. reach:
20 m tangentially
Angle of coverage: 180°
Angle of aperture: 45°

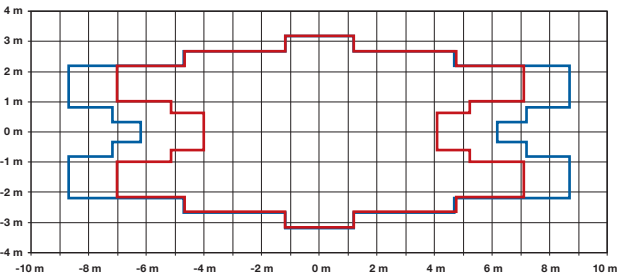
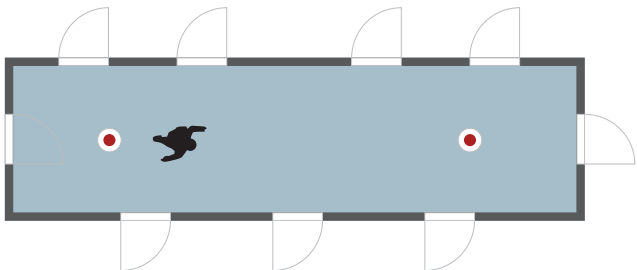
Setting capabilities



Shrouds: restrict the angle of coverage below the lens to suit requirements



Time and twilight response threshold are set at a potentiometer; manual override (4h) by means of mains power switch



IS 345 reach, mounting height 2.6 m
(blue = tangential walking direction, red = radial walking direction)



IS 345

EAN	white 4007841 606510
Dimensions (w x h x d)	95 x 95 x 65 mm
Output	- 2000 W max. (resistive load, e.g. filament bulb), - 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu\text{F}$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each, $C \leq 176 \mu\text{F}$
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)
Detection angle	180° with 45° angle of aperture
Reach	max. 20 x 4 m (tangentially) max. 12 x 4 m (radially); temperature-stabilised Precision adjustment by re-positioning the lens and shrouds
Sensor system	5 detection levels, 280 switching zones
Time setting	5 sec. – 15 min., + pulse mode (approx. 2 sec.)
Twilight setting	2 – 2000 lux + teach mode
Manual override	selectable (4h)
IP rating	IP 54
Protection class	II
Ambient temperature	-20° to +50° C



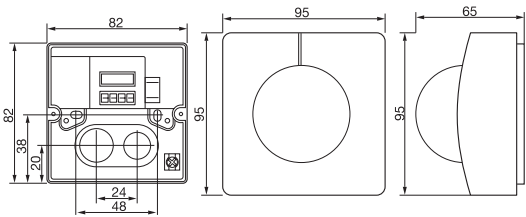
Installation



Large connection compartment with plug-in terminals: fast, convenient power supply unit wiring



Straightforward installation: pre-install power supply unit, plug in sensor electronics to suit the application



Motion Detectors

Presence Detectors

SensorLights

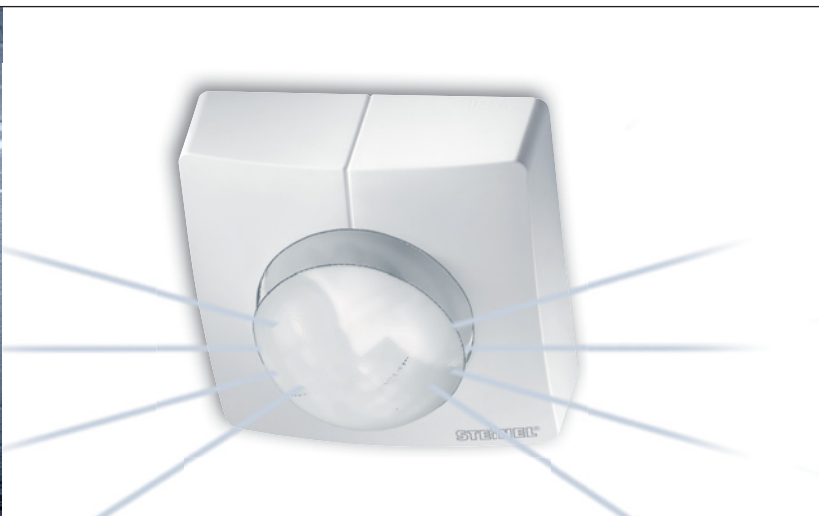
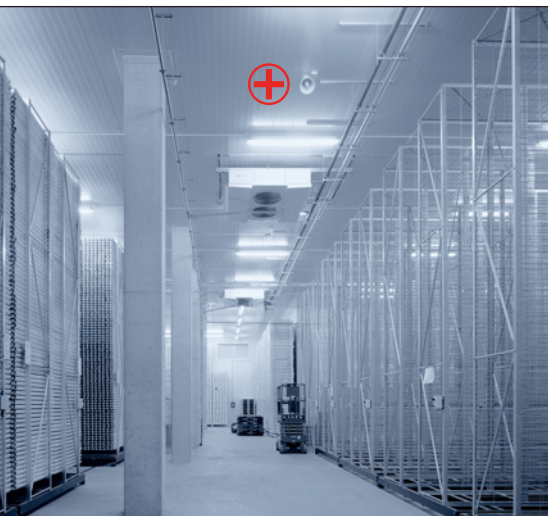
Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

IS 345 MX Highbay

Corridor Motion Detector for Large Heights



- Infrared corridor sensor for watching over corridors and passageways of up to 12 m in height
- Detection zone:
30 x 4 m (for radial direction of movement)
- Angle of coverage: 180°
Angle of aperture: 45°
- Pulse function ('ON' for 2 sec.)
- Teach mode (saves ambient brightness)
- Anti-glare protection, overload protection
- Recognition of sensors connected in parallel

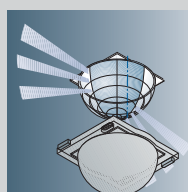
Detection also to great heights: the IS 345 MX Highbay

The IS 345 MX Highbay is ideal for professional use in enclosed spaces of up to 12 metres in height, such as warehouses, machine shops, terminal buildings or waiting areas. Economic and simple to install. The multi-lens in the IS 345 has 280 switching zones on 5 detection levels. The area covered in the radial walking direction is 30 x 4 metres. The IS 345 MX Highbay provides an astonishing radial reach of 15 metres in every direction. We have equipped this model with an optical system specifically designed for installing high up – this makes the IS 345 MX Highbay the undisputed specialist for large heights.

Detection zone



Max. reach: 30 m radially
Max. angle of coverage 180°
Max. angle of aperture: 45°

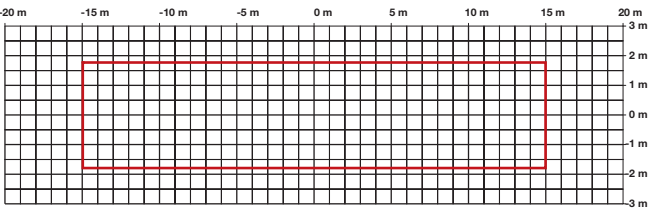
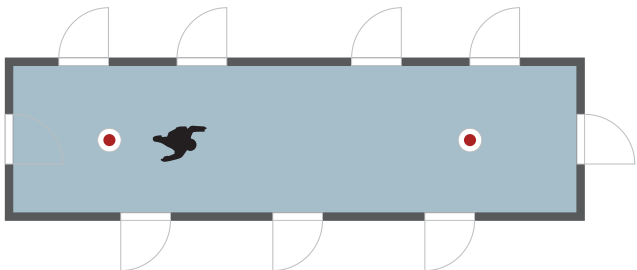


Shrouds: restrict the angle of coverage below the lens to suit requirements

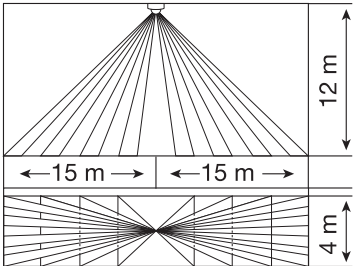
Setting capabilities



Time and twilight response threshold are set at a potentiometer; manual override (4h) by means of mains power switch



IS 345 MX Highbay reach, mounting height 12.5 m
(red = radial walking direction)



IS 345 MX Highbay

EAN	white	4007841 002725
Dimensions (w x h x d)	95 x 95 x 65 mm	
Output	<ul style="list-style-type: none">- 2000 W max. (resistive load, e.g. filament bulb),- 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps)- 900 W max. (series corrected)- 500 W max. (parallel corrected, with $C \leq 45.6 \mu\text{F}$)- electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each, $C \leq 176 \mu\text{F}$	
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)	
Detection angle	180° with 45° angle of aperture	
Reach	max. of 30 x 4 m (radially) mounted at a height of 12 m; temperature-stabilised Precision adjustment by re-positioning the lens and shrouds	
Sensor system	5 detection levels, 280 switching zones	
Time setting	5 sec. – 15 min., + pulse mode (approx. 2 sec.)	
Twilight setting	2 – 2000 lux + teach mode	
Manual override	selectable (4h)	
IP rating	IP 54	
Protection class	II	
Ambient temperature	-20° to +50° C	

FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



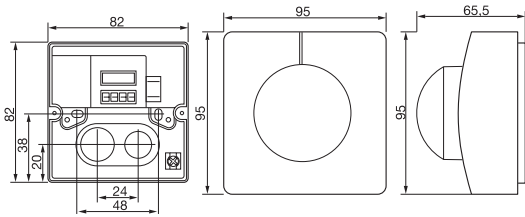
Installation



Large connection compartment with plug-in terminals: fast, convenient power supply unit wiring



Straightforward installation: pre-install power supply unit, plug in sensor electronics to suit the application



HF 3360

High-frequency Motion Detector for Walls and Ceilings

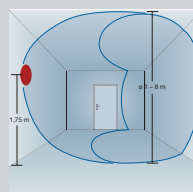
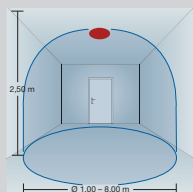


- High-frequency wall and ceiling sensor
- Detection irrespective of temperature
- Perfect coverage of indoor spaces
- Reach: 1 m – 8 m dia.
- Angle of coverage: 360°
- Angle of aperture: 140°
- Pulse function ('ON' for 2 sec.)
- Teach mode (saves ambient brightness)
- Overload protection
- Recognition of sensors connected in parallel

All-round vision without obstructions: the HF 3360

The HF 3360 has a 360° detection angle and a 140° angle of aperture. Its reach can be adjusted to between 1 and 8 metres all round. This sensor is perfect for watching over common spaces indoors. With its high-frequency technology, it fills the entire room. Glass, walls and stairwells are not a problem for the HF 3360. So, if you are looking for a discreet and elegant sensor for multi-storey car parks, stairwells or corridors, the HF 3360 is exactly the right choice.

Detection zone



Reach: 1 – 8 m dia. radially
Angle of coverage: 360°
Angle of aperture: 140°

Our high-frequency sensors operate at 5.8 GHz and < 1 mW.

Reach setting 1 – 8 m all round when mounted to ceiling.

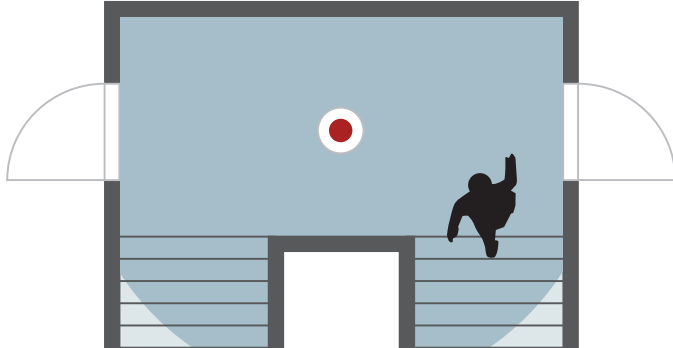
Reach setting 1 – 8 m all round when mounted to wall.

Setting capabilities



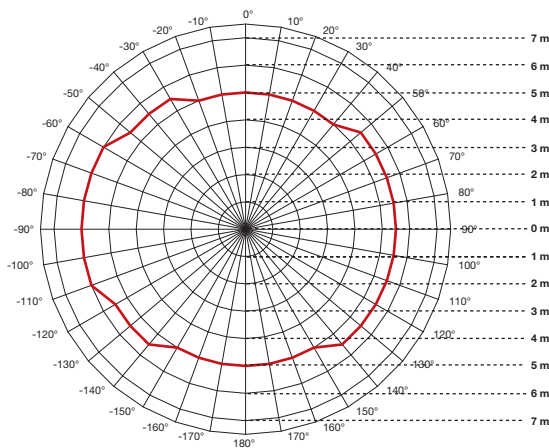
Time and twilight response threshold are set at a potentiometer; manual override (4h) by means of mains power switch

Convenient adjustment of reach by control dial (1 – 8 m all round)



HF 3360

EAN	white	4007841 753016
Dimensions (w x h x d)	95 x 95 x 51.5 mm	
Output	<ul style="list-style-type: none"> - 2000 W max. (resistive load, e.g. filament bulb), - 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C = 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each, $C \leq 176 \mu F$ 	
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)	
Detection angle	360° with 140° angle of aperture, also through glass, wood and stud walls	
Reach	8 m max. all round, infinitely variable	
Sensor system	High-frequency 5.8 GHz Transmission power < 1 mW	
Time setting	5 sec. – 15 min., + pulse mode (approx. 2 sec.)	
Twilight setting	2 – 2000 lux + teach mode	
Manual override	selectable (4h)	
IP rating	IP 54	
Protection class	II	
Ambient temperature	-20° to +50° C	
Accessories	<ul style="list-style-type: none"> - Corner wall mount for fitting on internal and external corners EAN 4007841 648015 (black), EAN 4007841 648114 (white) 	



HF 3360 reach, mounting height 2.8 m
(red = radial walking direction)

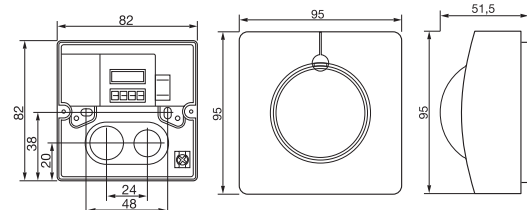
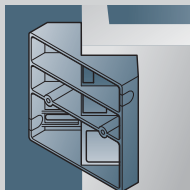
FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



Installation

Accessories



Straightforward installation:
pre-install power supply
unit, plug in sensor electronics to suit the application

Motion Detectors

Presence Detectors

SensorLights

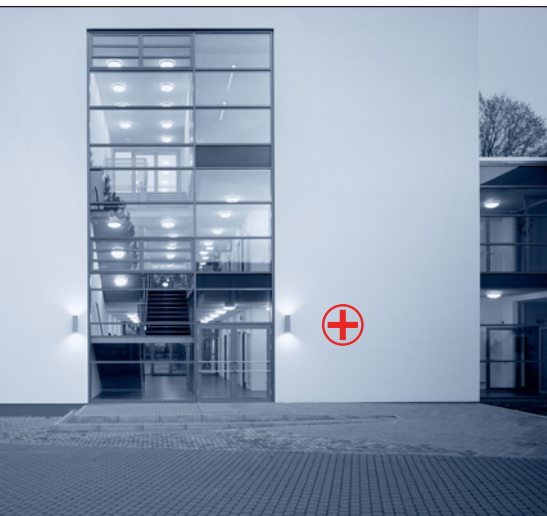
Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

IS 2180-5

Motion Detector for the Wall

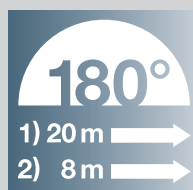


- Infrared wall sensor
- Guarding large outdoor spaces
- Reach:
 - 1) 20 m max
 - 2) 8 m max.adjustable in next to no time
- Angle of coverage: 180°
- Angle of aperture: 90°

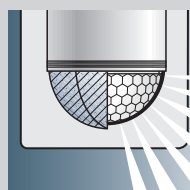
Superb reliability for large outdoor expanses: the IS 2180-5

The swivelling multi-lens divides the detection zone into 504 switching zones on 10 levels. The IS 2180-5 has a reach of up to 20 metres. It has a 180° detection angle and a 90° angle of aperture. This means it can easily keep watch over an area as large as 500 m². Its overall switching capacity is 1,000 watts. Large properties and outdoor spaces, such as works and factory premises, are perfectly guarded with the IS 2180-5. Manual override mode can be set using a line-side light switch (light 'ON' permanently for 4 h), light 'ON' time and twilight response thresholds can be adjusted to suit requirements.

Detection zone

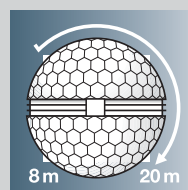


Max. reach:
8 m, 20 m tangentially
Angle of coverage: 180°
Angle of aperture: 90°

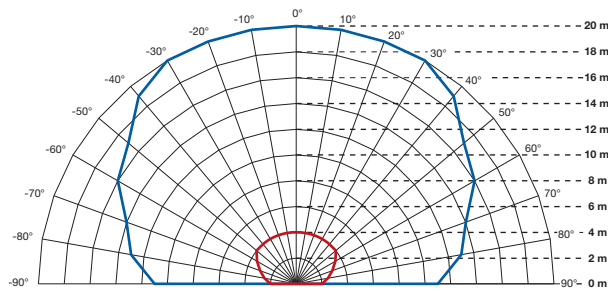
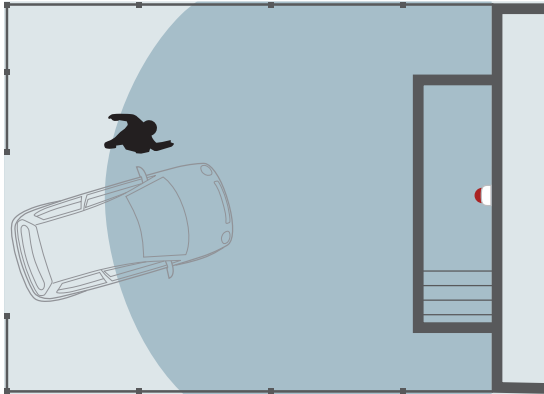


Shrouds: restrict angle of coverage to suit needs.

Setting capabilities



Reach setting by means of swivelling multi-lens (8 m, 20 m)



IS 2180-5 reach, 20 m lens
(blue = tangential walking direction, red = radial walking direction)



IS 2180-5

EAN	black 4007841 605711 white 4007841 605018 st.-steel eff. 4007841 605810
Dimensions (w x h x d)	120 x 78 x 55 mm
Output	- 1000 W max. (resistive load, e.g. filament bulb) - 500 W max. (uncorrected, inductive, $\cos \phi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 6 each, $C \leq 132 \mu F$
Voltage	230 – 240 V/50 Hz
Detection angle	180° with 90° angle of aperture
Reach	Basic setting 1: 20 m max. tangentially Basic setting 2: 8 m max. + precision adjustment using shrouds; temperature-stabilised
Sensor system	Basic setting 1: 10 detection levels, 504 switching zones Basic setting 2: 9 detection levels, 412 switching zones
Time setting	5 sec. – 15 min.
Twilight setting	2 – 2000 lux
Manual override	selectable (4h)
IP rating	IP 54
Protection class	II
Ambient temperature	-20° to +50° C
Accessories	- Including corner wall mount for installation on external and internal corners

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

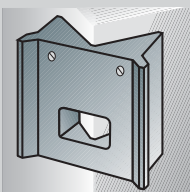
Support, Service

FUNCTIONAL
30 month
WARRANTY

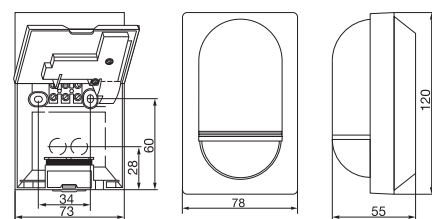
STEINEL
German
Quality



Accessories



Corner wall mount for
installation on internal and
external corners



IS 2180-2

Motion Detector for the Wall



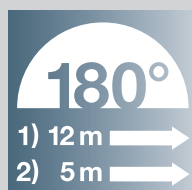
12 m max.

- Infrared wall sensor
- Guarding premises, factory sites and outdoor facilities, fronts of medium-sized buildings
- Reach:
 - 1) 12 m max
 - 2) 5 m max.adjustable in next to no time
- Angle of coverage: 180°
- Angle of aperture: 90°

Top performance in perfection: the IS 2180-2, the IS 2180-5's smaller brother

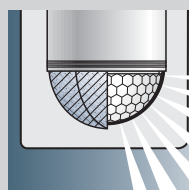
You wish to keep watch over medium-sized building fronts and premises? The IS 2180-2 provides the perfect technical line-up for reliably watching over areas as large as 200 m² with exceptional precision: A multi-lens that divides the detection zone into 504 switching zones and 10 levels, a coverage angle of 180° with an angle of aperture of 90° and maximum reach of 12 metres. This wall sensor has an overall switching capacity of 1,000 watts. What's more, the IS 2180-2 also impresses with its perfected, clear-cut design combining top performance with attractive looks. Exactly the right choice for medium-sized premises, factory sites and outdoor facilities or the fronts of buildings.

Detection zone

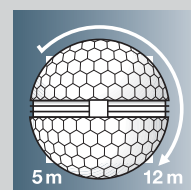


Max. reach:
5 m, 12 m tangentially
Angle of coverage: 180°
Angle of aperture: 90°

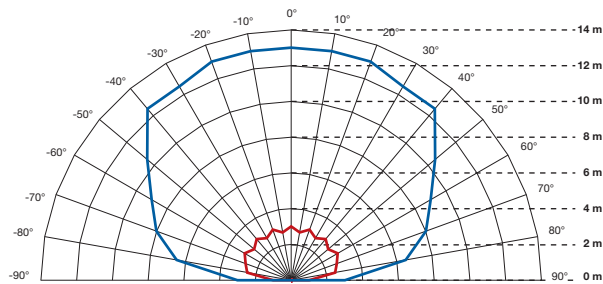
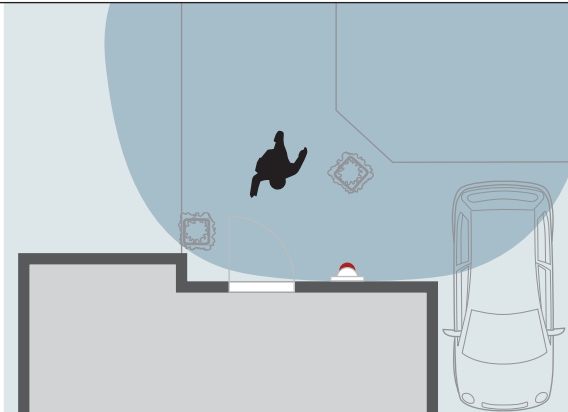
Setting capabilities



Shrouds: restrict angle of coverage to suit needs



Reach setting by means of swivelling multi-lens (5 m, 12 m)



IS 2180-2 reach, 12 m lens
(blue = tangential walking direction, red = radial walking direction)



IS 2180-2

EAN	black 4007841 603717 white 4007841 603816 st.-steel eff. 4007841 603915
Dimensions (w x h x d)	120 x 78 x 55 mm
Output	- 1000 W max. (resistive load, e.g. filament bulb) - 500 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 6 each. $C \leq 132 \mu F$
Voltage	230 – 240 V/50 Hz
Detection angle	180° with 90° angle of aperture
Reach	Basic setting 1: 12 m max., tangentially Basic setting 2: 5 m max. + precision adjustment using shrouds; temperature-stabilised
Sensor system	Basic setting 1: 10 detection levels, 504 switching zones Basic setting 2: 9 detection levels, 412 switching zones
Time setting	10 sec. – 15 min.
Twilight setting	2 – 2000 lux
Manual override	–
IP rating	IP 54
Protection class	II
Ambient temperature	-20° to +50° C
Accessories	- Including corner wall mount for installation on external and internal corners

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

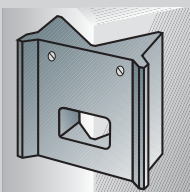
Support, Service

FUNCTIONAL
88 month
WARRANTY

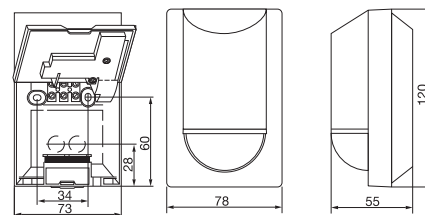
STEINEL
German
Quality



Accessories



Corner wall mount for
installation on internal and
external corners



HF 3600

High-Frequency Motion Detector for the Wall

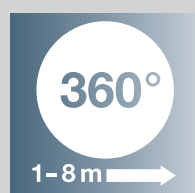


- High-frequency sensor
- Controls indoor lighting installations/ systems (stairwells etc.) irrespective of temperature
- Max. reach: 8 m
- Angle of coverage: 360°
- Angle of aperture: 140°

Exquisite design and management qualities: the HF 3600

Understated and attractively designed, the HF 3600 is ideal for controlling lighting installations and lighting systems. This high-performance sensor benefiting from cutting-edge HF-sensor technology comes with a 360° coverage angle, an angle of aperture of 140° and reach of up to 8 metres. It sends out a signal of 5.8 GHz and responds with lightning precision to the tiniest of changes in the echo image, i.e. to the smallest of movements made by persons or objects (e.g. 5 cm at a distance of 3 m). It switches almost instantaneously irrespective of temperature and walking direction. With a full 360° angle of coverage, it provides uninterrupted coverage in large indoor spaces, making it the ideal choice for stairwells or deep rooms. Its overall switching load is 1,000 watts. The HF 3600 is easily set to manual override mode (light 'ON' permanently for 4 h) using a line-side light switch. Light 'ON' time, twilight response threshold and reach can also be selected in exactly the way you require.

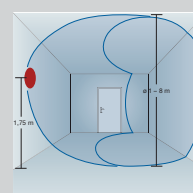
Detection zone



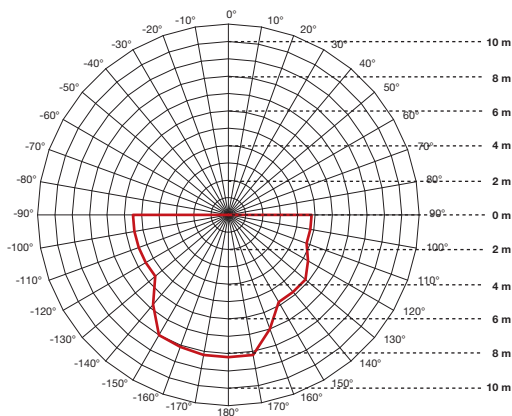
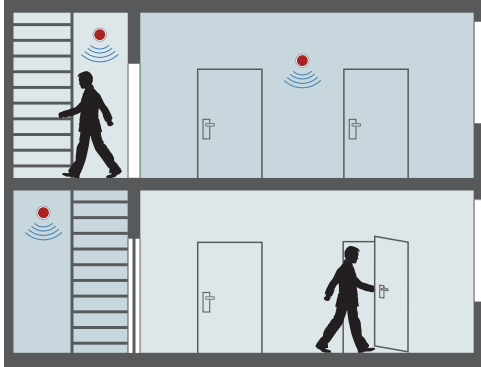
Reach:
1 – 8 m radially
Angle of coverage: 360°
Angle of aperture: 140°



Our high-frequency sensors operate at 5.8 GHz and < 1 mW.



Reach setting 1 – 8 m all round when mounted to wall.



HF 3600 reach, mounting height 1.80 m
(red = radial walking direction)



HF 3600

EAN	black 4007841 733612 white 4007841 733513
Dimensions (w x h x d)	120 x 78 x 41 mm
Output	- 1000 W max. (resistive load, e.g. filament bulb) - 500 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 6 each. $C \leq 132 \mu F$
Voltage	230 – 240 V/50 Hz
Detection angle	360° with 140° angle of aperture, also through glass, wood and stud walls
Reach	1 – 8 m dia., infinitely variable
Sensor system	5.8 GHz high-frequency Transmission power < 1 mW
Time setting	5 sec. – 30 min.
Twilight setting	2 – 2000 lux
Manual override	selectable (4 h)
IP rating	IP 54
Protection class	II
Ambient temperature	-20° to +50° C
Accessories	- Including corner wall mount for installation on external and internal corners

Motion Detectors

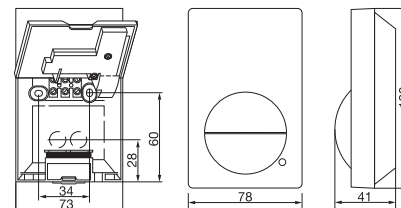
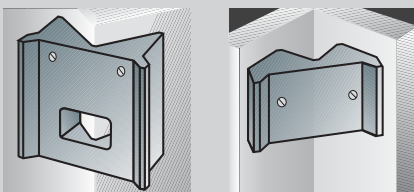
Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Accessories included



FUNCTIONAL
36 month
WARRANTY

STEINEL
German
Quality



Corner wall mount for
installation on internal and
external corners

Support, Service

IS 300

Small Motion Detector for Wall and Corner Solutions

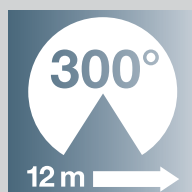


- Infrared wall sensor
- Keeps watch over corner situations, winding corridors etc.
- Max. reach: 12 m
- Angle of coverage: 300°
- Angle of aperture: 90°

A benchmark for problem detection tasks: the IS 300

The IS 300 is ideally equipped for watching over obscure corridors, winding passageways and corners of buildings: With a coverage angle of 300°, which is extremely large for wall-mounted detectors, an angle of aperture of 180° and reach of up to 12 metres, the IS 300 is in full command of watching over the most difficult of building situations. Particularly intelligent: The sensor head can be turned through 80° for precision targeting. The IS 300 has 720 switching zones on 10 levels. At 2,000 watts, its switching capacity is matched to the extremely large detection zone. This means it is easily possible to automate large lighting systems with several lights. The IS 300 from STEINEL Professional is a benchmark in infrared sensor technology and tailored perfectly to needs – no more, no less.

Detection zone



Max. reach:
12 m tangentially
Angle of coverage: 300°
Angle of aperture: 90°

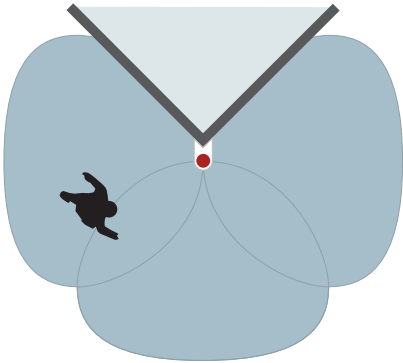
Setting capabilities



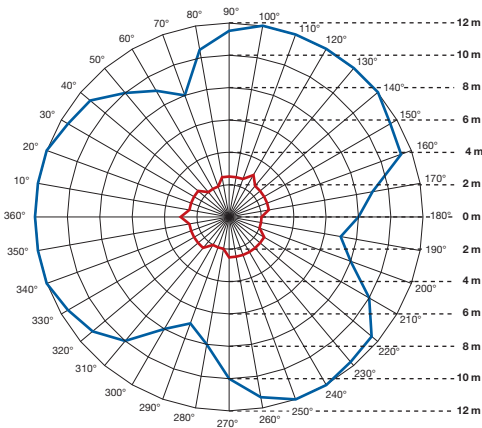
Detach decorative ring



Time setting



3-sensor technology of the IS 300



IS 300 reach, mounting height 2.5 m
(blue = tangential walking direction, red = radial walking direction)



IS 300

EAN	black white	4007841 602116 4007841 602215
Dimensions (w x h x d)	85 x 60 x 95 mm	
Output	- 2000 W max. (resistive load, e.g. filament bulb), - 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - 1500 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu\text{F}$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each. $C \leq 176 \mu\text{F}$	
Voltage	230 – 240 V/50 Hz	
Detection angle	300° with 180° angle of aperture	
Reach	12 m max., tangentially; temperature-stabilised	
Adjustment range	$\pm 80^\circ$ precision targeting	
Sensor system	10 detection levels, 456 switching zones	
Time setting	10 sec. – 15 min.	
Twilight setting	2 – 2000 lux	
Manual override	–	
IP rating	IP 54	
Protection class	II	
Ambient temperature	-20° to $+50^\circ \text{C}$	
Accessories	- Corner wall mount (EWH 01) for installation in external corners 4007841 630119 (black), 4007841 630218 (white)	



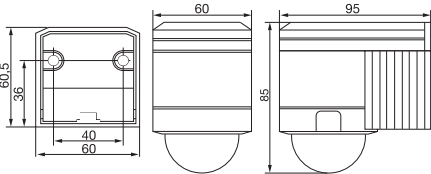
Accessories



Twilight setting

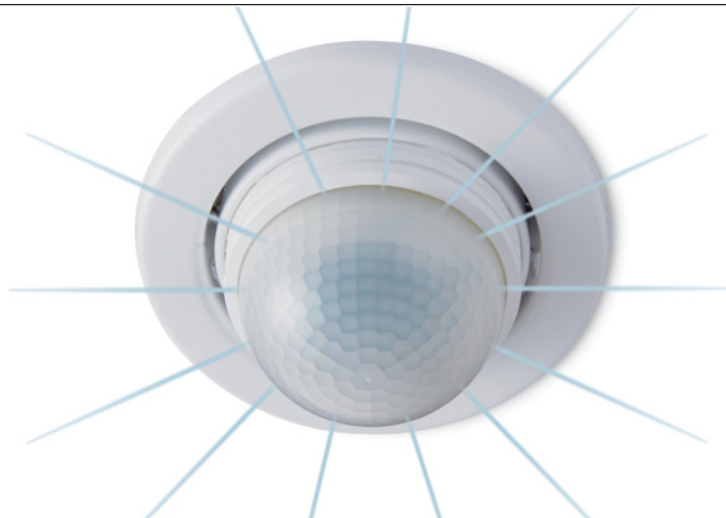
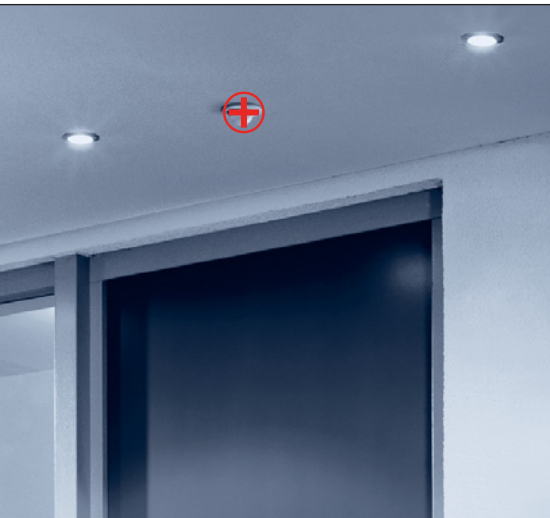
Shrouds: limit the angle of coverage to suit requirements

Corner wall mount for installation on external corners



IS D360

Motion Detector for Controlling Spots



- Recessed ceiling infrared sensor with the dimensions of a bulb (e.g. GU10)
- Can be fitted in any standardised downlight bezel
- Max. reach: 8 m all-round
- Angle of coverage: 360°
- Angle of aperture: 180°
- Floating contact 50 – 250 V

Precision with the perfect figure: the IS D360

Featuring 720 switching zones, the IS D360 guarantees precision detection. It comes with a huge reach of up to 8m, a coverage angle of 360° as well as a 180° angle of aperture. What makes this detector special: the recessed sensor fits into standard recessed downlight trims as it has the outer dimensions of the lamp. This means any design and colour of bezel can be used to match the spots. The IS D360 is compact and quickly installed. Once in place, all you can see is the multi-lens. After detaching the sensor head, settings can be made easily and conveniently by control dial. The IS D360 fits perfectly into any situation as any recessed trim can be used. That's professionalism that sets standards – in every respect.



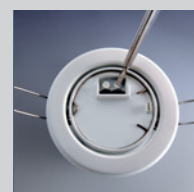
The sensor head with the dimensions of the bulb (e.g. GU10)

Detection zone

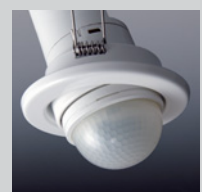


Max. reach:
8 m tangentially
Angle of coverage: 360°
Angle of aperture: 180°

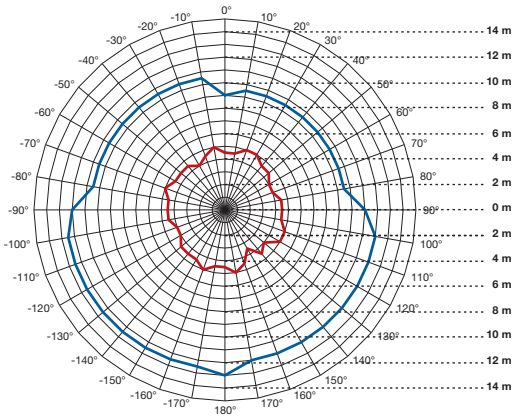
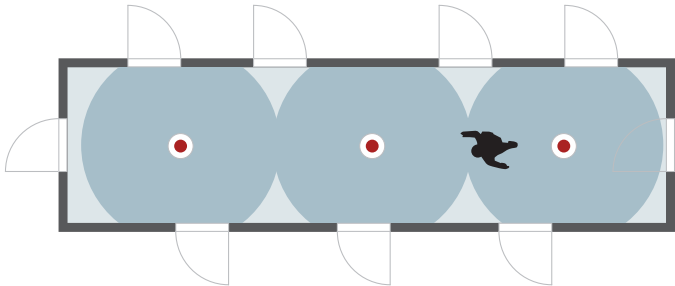
Setting capabilities



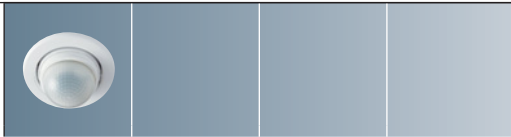
Time and twilight setting:
concealed beneath the
sensor head



Optional: Recessed trim
with swivel mechanism

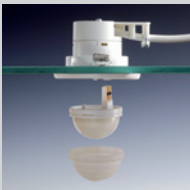


IS D360 3-sensor technology, mounting height 2.8 m
(blue = tangential walking direction, red = radial walking direction)



IS D360

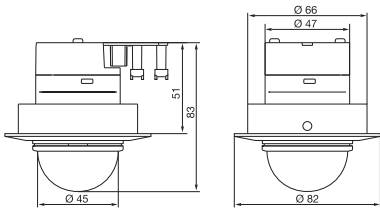
EAN	white	4007841 601317
Dimensions (w x h x d)	83 x 82 mm dia.	
Output	<ul style="list-style-type: none">- 1000 W max. (resistive load, e.g. filament bulb)- 500 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps)- 900 W max. (series corrected)- 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$)- electronic ballasts, capacitive, e.g. low-energy bulbs, max. of 4 each, $C \leq 88 \mu F$	
Voltage	230 – 240 V/50 Hz	
Detection angle	360° with 180° angle of aperture	
Reach	8 m max. all round; temperature-stabilised	
Sensor system	10 detection levels, 720 switching zones	
Time setting	5 sec. – 20 min.	
Twilight setting	2 – 2000 lux	
Manual override	selectable (4 h)	
IP rating	IP 20	
Protection class	II	
Ambient temperature	-20° to +50° C	
Accessories	includes standard white trim	



Straightforward installation: pre-install power supply unit, plug in sensor electronics to suit the application



Any trim can be used.
Fitting dimensions:
Outer dia. = 72 mm dia.
Fitting depth = 53 mm



IS 2160 ECO

Motion Detector for the Wall



- Attractively priced infrared wall sensor
- Watches over entrances, small properties etc.
- Max. reach: 12 m
- Angle of coverage: 160°
- Angle of aperture: 40°

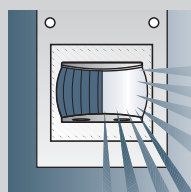
Less is more: the IS 2160 ECO

The attractively priced IS 2160 ECO is ideal for use in smaller-type properties and at entrances. With this model, we offer our customers a sound, quality motion detector from European production. It reliably watches over areas as large as 170 m². The multi-lens divides its detection zone into 260 switching zones and 5 levels. With a reach of up to 12 metres, an angle of coverage of 160° and an angle of aperture of 40°, it provides high-quality technical features. At 600 watts, its overall switching capacity is matched to demand. Both light 'ON' time and twilight response threshold can be selected to suit individual requirements. Benefiting from outstanding, high-quality technology, the IS 2160 ECO from STEINEL Professional takes care of smaller-type lighting tasks with familiar precision and reliability.

Detection zone



Max. reach:
12 m tangentially
Angle of coverage: 160°
Angle of aperture: 40°

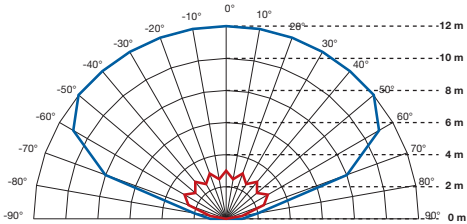
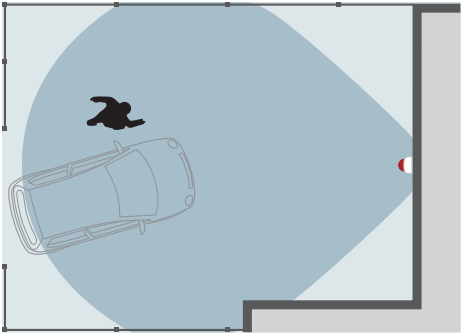


Shroud foils:
limit the angle of
coverage to suit
requirements

Setting capabilities



Detection zone:
exact adjustment by
tilting and turning

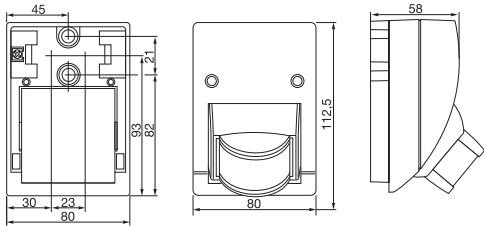


IS 2160 ECO reach, mounting height 1.8 m
(blue = tangential walking direction, red = radial walking direction)



IS 2160 ECO

EAN	black white	4007841 605919 4007841 606015
Dimensions (w x h x d)	113 x 78 x 73 mm	
Output	<ul style="list-style-type: none">- 600 W max. (resistive load, e.g. filament bulb),- 500 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps)- 500 W max. (series corrected)- 500 W max. (parallel corrected, with $C \leq 45.6 \mu\text{F}$)- electronic ballasts, capacitive, e.g. low-energy lamps, max. of 6 each. $C \leq 132 \mu\text{F}$	
Voltage	230 – 240 V/50 Hz	
Detection angle	160°	
Reach	12 m max.	
Adjustment range	40° horizontally, 70° vertically	
Sensor system	5 detection levels, 260 switching zones	
Time setting	8 sec. – 35 min.	
Twilight setting	2 – 2000 lux	
Manual override	–	
IP rating	IP 54	
Protection class	II	
Ambient temperature	-20° to +50° C	



NightMatic 5000-2

Photoelectric Lighting Controller



- Photoelectric lighting controller for switching light 'ON' automatically at night
- Twilight switching threshold: 0.5 – 100 lux
- Unique night economy mode
- Selectable: Light 'ON'/'OFF' in the morning
- Anti-glare protection, overload protection
- Recognition of sensors connected in parallel
- Reset function

Turns night into day: the NightMatic 5000-2

The NightMatic 5000-2 switches light 'ON' and 'OFF' in relation to ambient brightness. Its switching load is 2,000 watts. The microprocessor-controlled photoelectric lighting switch is the ideal choice when it comes to illuminating shop windows, advertising systems or surfaces all night long. Practical: the variable night economy mode and capability of selecting light 'ON' or 'OFF' in the morning. This is of particular interest if you want light to come 'ON' at dusk but then go out for a certain number of hours during the night. In this mode, light switches 'ON' in the evening, then switches 'OFF' for a selectable period during the night and comes 'ON' again before daybreak if you want it to; obviously staying 'OFF' automatically during the day.

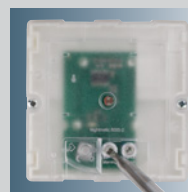
Setting capabilities



Digital twilight response threshold easy to set by button (Response threshold can be set to between 0 – 5 and 100 lux)



Night economy mode: connected load can be switched 'OFF' at night



Setting for the morning hours: Light 'ON'/'OFF'

Installation

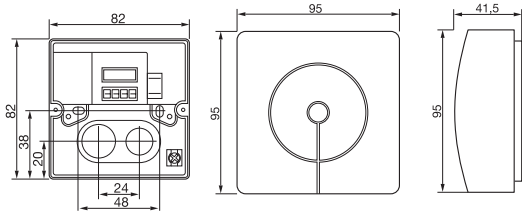
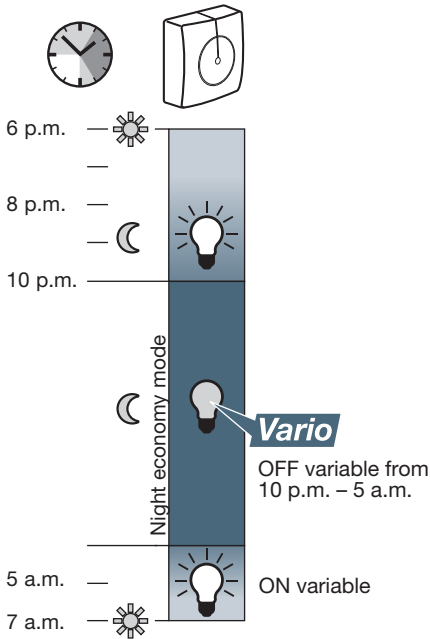


Large terminal compartment with plug-in terminals makes the power supply unit easy to wire.



NightMatic 5000-2

EAN	black white	4007841 550714 4007841 550813
Dimensions (w x h x d)	95 x 95 x 41.5 mm	
Output	- 2000 W max. (resistive load, e.g. filament bulb), - 1000 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - 900 W max. (series corrected) - 500 W max. (parallel corrected, with $C \leq 45.6 \mu F$) - electronic ballasts, capacitive, e.g. low-energy lamps, max. of 8 each, $C \leq 176 \mu F$	
Voltage	230 – 240 V / 50 Hz (2.5 mm ² max.)	
Twilight setting	0.5 – 100 lux	
Night economy mode	variable night 'OFF' time	
Morning setting	Light 'ON' or 'OFF'	
IP rating	IP 54	
Protection class	II	
Ambient temperature	-20° to +50° C	



Motion Detectors

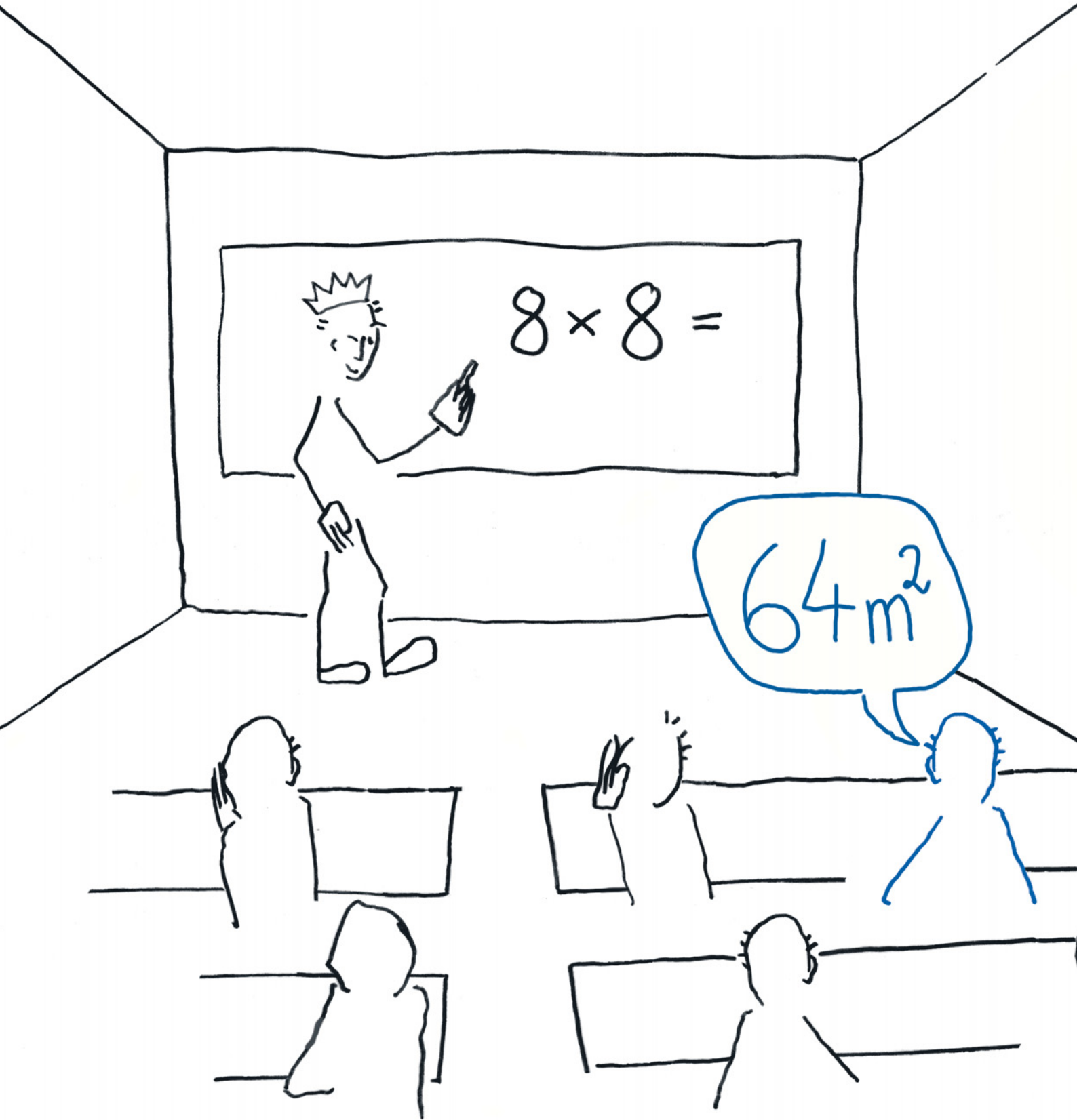
Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service





Welcome to the Cream of the Crop.

Anybody also wanting to control lighting automatically indoors enters a field that's capable of saving huge amounts of energy. Yet maximum demands must also be made on the sensors because they need to identify precisely and reliably whether people are present in the room even if they hardly move, let's say while sitting at work. A product that no longer notices school students quietly studying and switches the light 'OFF' shouldn't call itself a presence detector. Even one with a low detection resolution is unsuitable in our eyes. With perfected sensor technology as our foremost maxim, this catalogue now presents you with true presence detectors that can actually say they meet the most exacting of demands. At the same time being tailored to any room type and indoor control task.





Presence Detectors

Expertise, efficiency and precision – our newly developed range of presence detectors is a shining example of tomorrow's intelligent use of energy. We make technology that's committed to a system.

Presence Detectors really need to Work



Made for the most exacting of demands:
Presence detectors from STEINEL Professional

Presence detectors are the cream of the crop in lighting automation.
We say: What counts is light when it's needed –
and no light when it isn't.
All automatically. And always with perfection.

Technology that works

Presence detectors must work in a way that requires absolutely no thinking on the part of either the people using them or the electricians fitting them. Our foremost maxim is sensor technology that works perfectly. Because a building comes with all sorts of different detection tasks and rooms that also involve widely differing activities, sensor technology needs to satisfy a wide range of demands. Presence detectors that leave pupils sitting in the dark while they are quietly at study are not particularly helpful. Long stay-'ON' times to compensate for detection weaknesses are not particularly helpful either. Nor are presence detectors that fail to provide the capability of manual intervention - to turn the light 'OFF', say, for video presentations. Poor detection performance is simply no use at all – and has nothing to do with what we can provide.

Top expectations demand performance to match

We are committed to meeting the expectations placed on us by building the best sensors money can buy – because only a first-class engine makes a first-class car. In our opinion, this is the only way of providing you with the very best presence detectors that are available on the market. Developed and produced entirely by STEINEL Professional from the initial idea down to the very last detail. For perfection that works and lasts.

Motion Detectors

Presence Detectors

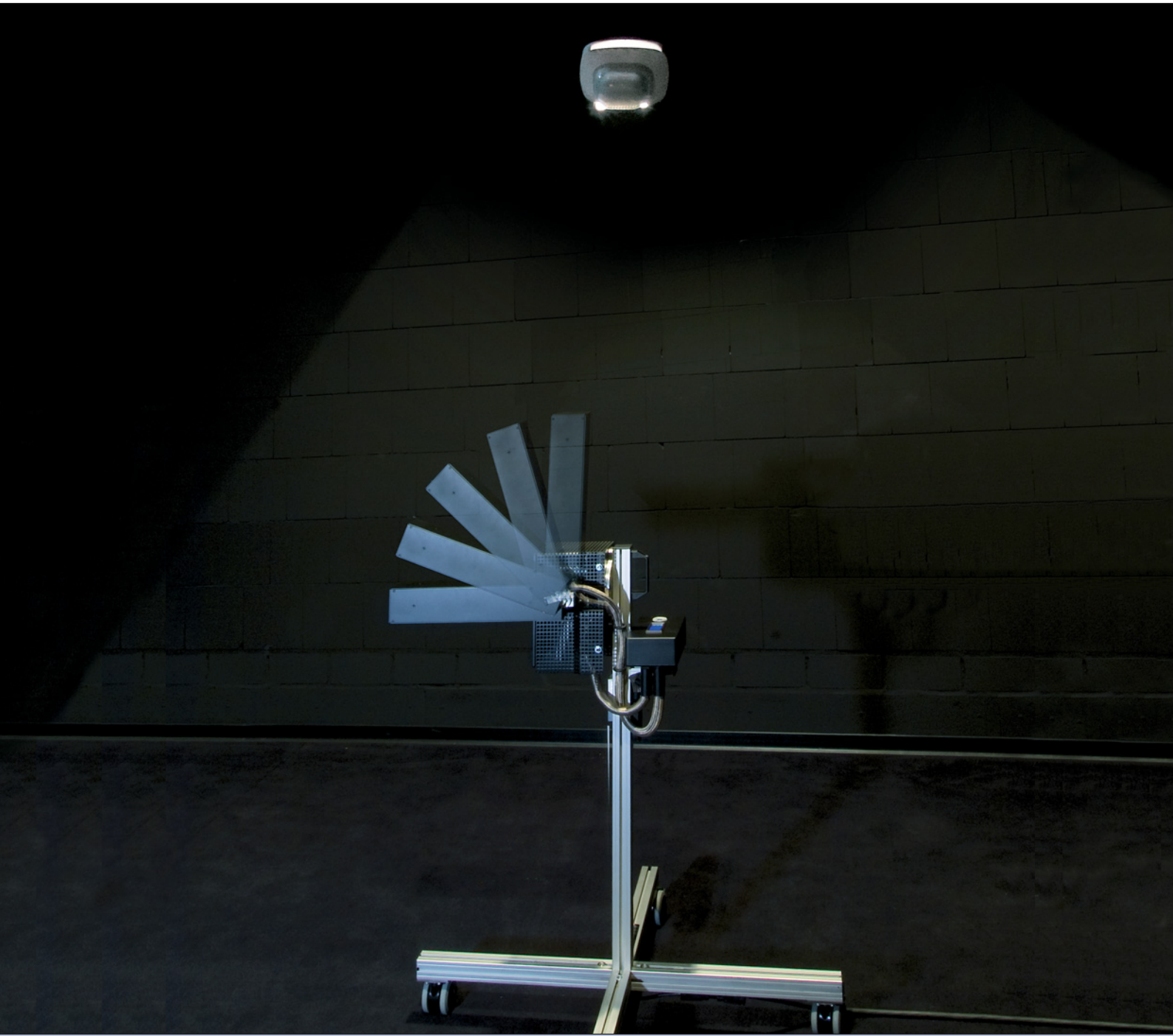
SensorLights

Sensor-Switched
Floodlights

Wireless Sensor Systems

Support, Service

Putting Presence Detectors through their Paces



A real-life measurable basis for comparing the way presence detectors actually work not only ensures a high standard of quality and performance. This shows who's the No. 1 in the technology stakes.

Performance by comparison

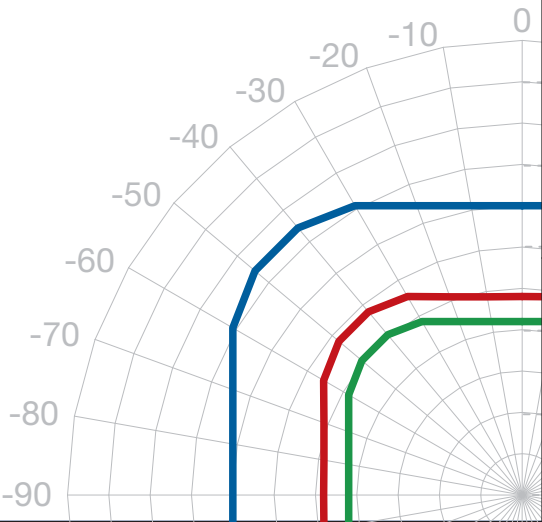
To be in a position to compare all presence detectors, they must be measured under exactly the same conditions: Position, room temperature – excluding other non-controllable influences – and, in particular, the same, standardised movement at all times. Only then is it possible to compare the true performance of presence detectors. At STEINEL Professional, we have a special test room that meets all of these conditions. This means we know our own sensors and those of all our competitors inside out.

The optical system, its resolution density, reach, detection characteristics and evaluation software are all crucial to the quality of a presence detector. Standardised testing provides us with the tremendous precision and the knowledge with which we bring objectivity and hard fact into the equation: It's an incorruptible measurement process that permits international comparison.

We know what we're talking about

Standardised movement is performed by a robot that simulates the human forearm: our NEMA arm robot. Using a temperature-controlled, standardised forearm model of unchanging mass, it performs a 90°-movement that's always the same (conforming to the American NEMA Standard).

Whether and the speed with which the sensor detects it is recorded in a measurement protocol that ultimately provides the basis for producing the detection diagram. There's not a sensor in the world that can't be measured and compared as objectively as this. On the basis of this process, we know exactly how every motion and presence detector performs. And we are extremely proud of where our products rank in this comparison – but at the moment we'll politely refrain from comment.



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service



STEINEL Professional – true Presence Detectors

An all-new generation of sensor technology: Control PRO System

We have taken a thorough look at the demands that are made on sensor technology today. In addition to the expectations users put on them, we also devote our attention to those of planners, architects, consultants and electrical fitters. After painstakingly and exhaustively analysing the market, we can meet the expectations placed on modern sensor technology with solutions tailored to every specific need.

The result: our Control PRO generation of presence detectors.

The Professional line-up: covering a range no other can

The Control PRO System uses 4 sensor technologies, 2 infrared versions and 2 high-frequency versions. Both infrared presence detectors have a mechanically scalable square-shaped detection characteristic – unparalleled anywhere else in the world. The design of our new Control PRO family is understated. This range is intended for recessed ceiling installation and therefore extremely shallow. They go perfectly with square as well as round ceiling elements and lights. A range of accessories also permits surface-mounting. Needless to say, our presence detectors are available in all the most commonly demanded combinations (switching output, HVAC output, 1 – 10 V dimming output, KNX/EIB, DALI). Featuring additional functions and setting capabilities, they can be used in master/slave applications and benefit from a self-learning IQ mode. They can also be operated by IR remote control. A precision constant-light controller is, of course, also integrated. Alongside presence detectors, the Control PRO System also offers a modern DUAL smoke detector and an air-quality sensor covering all demands on building sensors in matching design.

That's STEINEL Professional – Intelligent lighting for professional applications.

Benefits

- Exactly the right sensor technology for any specific lighting application
- (infrared, digital infrared, high-frequency sensor systems, DUAL technologies, dedicated corridor sensors etc.)
- Unique square-shaped detection zone
- Unparalleled mechanical scalability of reach
- All the main connection options (high-load relay, 2 outputs, DALI, KNX, 1–10 V interface, wireless interconnectability etc.)
- Master-master/master-slave systems
- All products in one and the same design
- Plus smoke detector and air-quality sensor with co-ordinated design and operating concept
- Pushbutton/switch input for semi-automatic operation
- Load-free programming with visible LED
- Constant-light function, permanent light 'OFF' function
- Can be remotely controlled
- Concealed, surface and ceiling mounting
- Compatible with all common recessed boxes

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

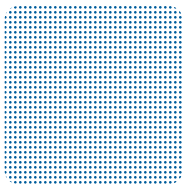
Support, Service

Interfaces

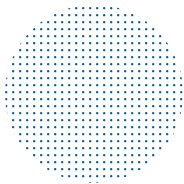
COM1 COM1 AP	COM2	DIM
		IMPULSER

Unique Presence Detectors

The square, scalable detection zone from Presence Control PRO IR



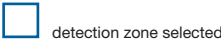
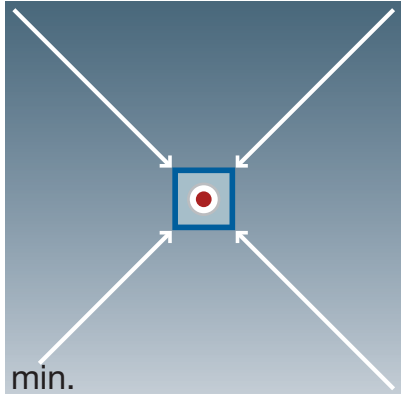
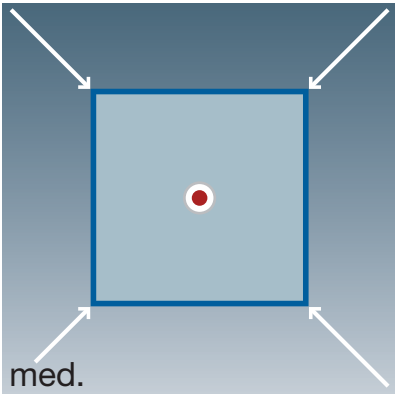
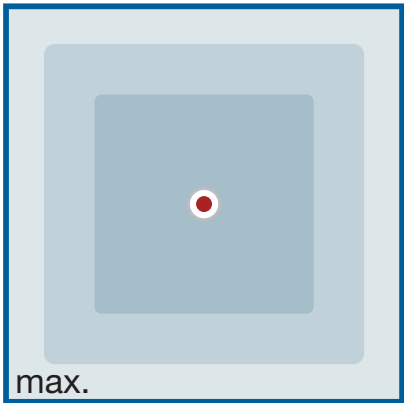
IR Quattro/
IR Quattro HD

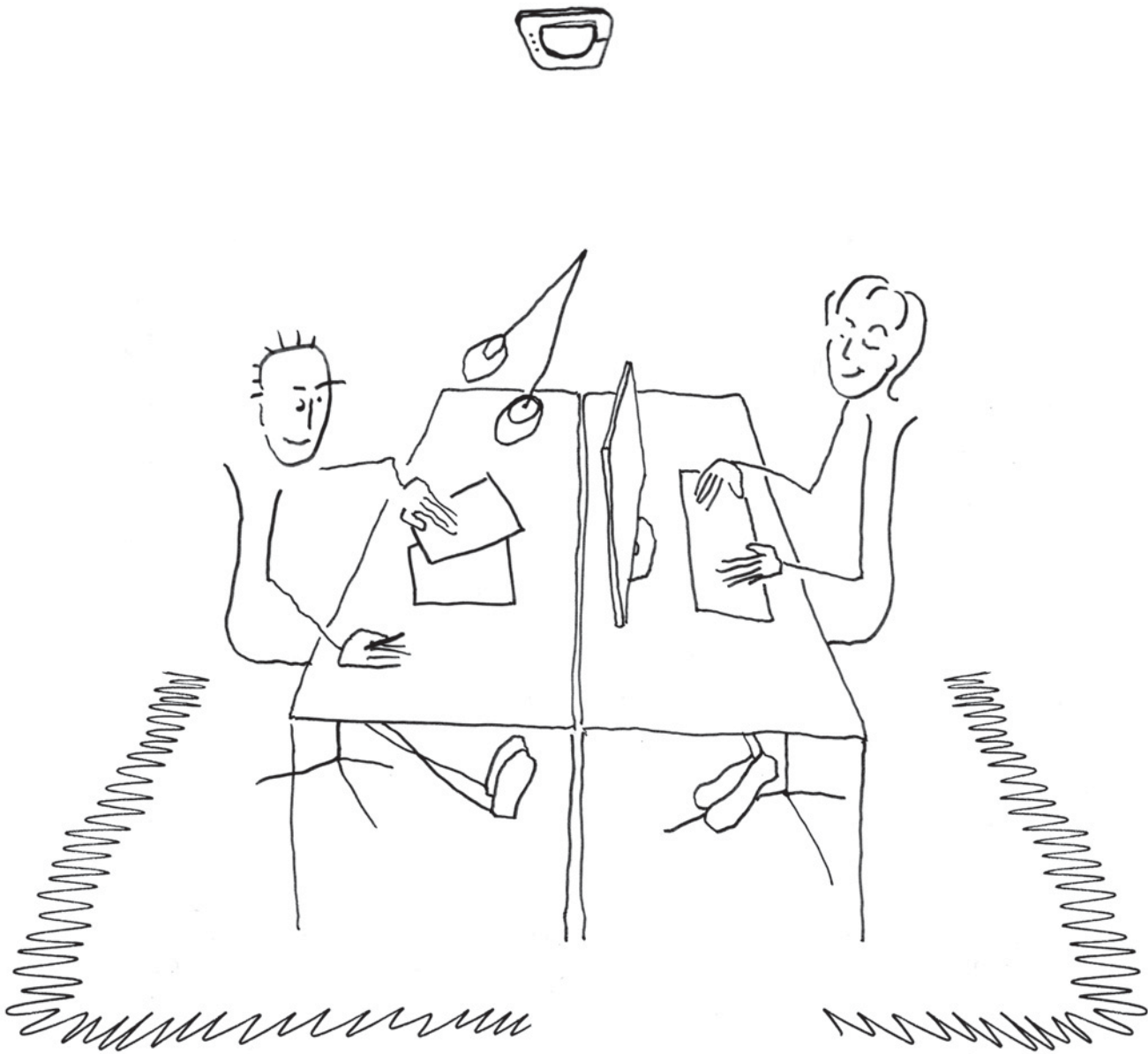


conventional
presence detector

The world is round – rooms aren't

Our IR presence detectors have a square detection zone providing unmatched precision. This detection zone can be scaled with precision, and that's unique. Never before has it been possible to cover rooms with presence detectors without overlaps or leaving gaps: perfectly plannable zones, reliable detection at every point of the room. No longer is there any need for planners, electrical fitters or users to get worked up later on over poor presence-detection performance. Instead, everyone can look forward to maximum energy savings. Unseen anywhere else in the world, the incredible resolution of our presence detectors, with up to 4,800 switching zones, provides a level of detection precision that's previously not been possible.





Motion Detectors

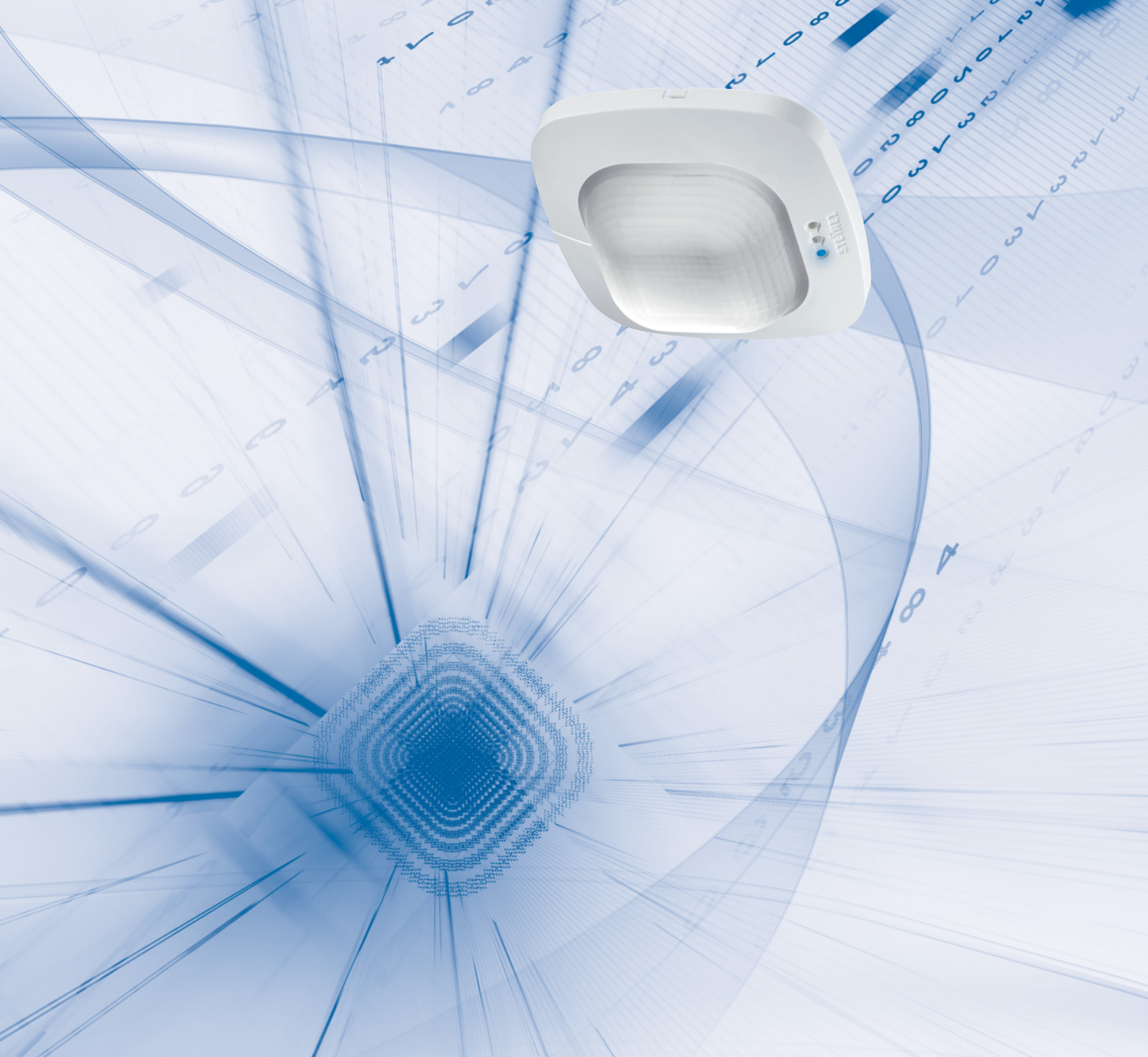
Presence Detectors

SensorLights











Sensor-Switched
Floodlights

Wireless Sensor Systems







Support, Service

















Overview Presence Detectors

	Presence Control PRO				Smoke Detector	Air-quality Sensor	Motion Detectors
							
	IR Quattro	Quattro HD	HF 360	Dual HF	Fire Control PRO	Air Control PRO Signal	
Indoors	●	●	●	●	●	●	Presence Detectors
In-ceiling installation	●	●	●	●		●	
On-ceiling installation	●	●	●	●	●	●	
COM1	●	●	●	●			
COM1 AP	●	●	●	●			
COM2	●	●	●				
DIM	●	●	●	●			
DALI	●	●	●	●			
KNX	●	●	●	●			
IMPULSER	●						SensorLights
Mounting height	2.5 m – 8 m	2.5 m – 10 m	2.5 m – 3.5 m	2.5 m – 3.5 m	2.5 m – 3 m	2.5 m – 3 m	
IR-Switching zones	1760	4800	-	-			
Square detection zone	Presence: 4 x 4 m max. Radially: 5 x 5 m max. Tangentially: 7 x 7 m max.	Presence: 8 x 8 m max. Radially: 8 x 8 m max. Tangentially: 20 x 20 m max.	Detection zone: 1 – 8 m dia.	Detection zone: 3 x 20 m			
Detection angle	360°	360°	360°	360°			Sensor-Switched Floodlights
Page	84	86	88	90	104	106	
	LuxMaster						
							
	BLS	BLS D	BLS DF	BLS T			
Indoors	●	●	●	●			Support, Service
In-ceiling mounting							
On-ceiling mounting	●	●	●	●			
Mounting height	2.50 - 3 m	2.50 - 3 m	2.50 - 3 m	2.50 - 3 m			
IR-Switching zones	1320	1320	1320	1320			
Detection angle	360° with 180° angle of aperture	360° with 180° angle of aperture	360° with 180° angle of aperture	360° with 180° angle of aperture			
Reach	12 m max.	12 m max.	12 m max.	12 m max.			
Page	110	110	110	110			
							Support, Service

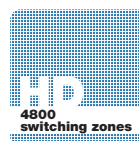
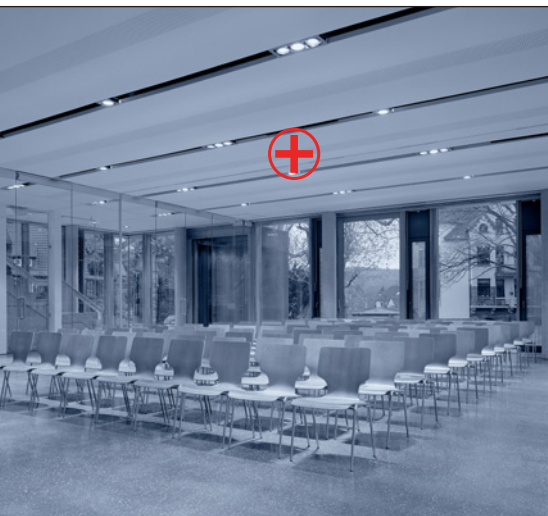
Decision-making Matrix for Presence Detectors and Room Sensors

Outdoors (see page 32)			
BLS LuxMaster		Control PRO System	
	Room presence detector		
	<ul style="list-style-type: none">• Offices• Conference rooms• Class rooms• Meeting rooms		
	<ul style="list-style-type: none">• IR-sensor with 3 pyro-sensors• Round detection characteristic• Reach 12 m		
	 BLS LuxMaster		
Switching light	  BLS, BLS T (semi-automatic)	COM1	Switching light (1 relay)
		COM1 AP	Switching light slim-line surface-mounting version (1 relay)
		COM2	Switching light & HVAC (heating/ventilation/air-conditioning, 2 relays)
		DIM	1–10 V interface for constant-lighting control & basic brightness
		DALI	Digital DIM interface for constant-lighting control & basic brightness
		KNX	Digital BUS interface for 4 lighting controls & HVAC (heating/ventilation/air-conditioning)
1–10 V interface for constant-lighting control & basic brightness	  BLS D, BLS DF (remote control)	IMPULSER	Battery-operated wireless sensor (transmitter)

<div>Indoors</div>						Motion Detectors
<div>Application</div>						
Presence Control			Fire Control	Air Control		Presence Detectors
Presence detector Room			Presence detector Corridor	Smoke detector	Air-quality sensor	
<ul style="list-style-type: none">• Small offices• WCs, washrooms• Storage, service, utility rooms• No detection of mechanical movements (e.g. lift)			<ul style="list-style-type: none">• Passageways• Corridors etc.	<ul style="list-style-type: none">• Smoke detector with 2 sensor sizes (smoke + heat)• For detecting fire• Low-battery indicator• Light sensor for daytime low-battery warning• Function button 10-minute muting and self-test• Relay contact• Wired interconnection of as many as 30 STEINEL Professional smoke detectors• 230 V power supply	<ul style="list-style-type: none">• Classrooms and conference rooms• Studies• Offices• Training and conference rooms• Version for surface and concealed mounting	SensorLights
<ul style="list-style-type: none">• IR-sensor with 1 pyro-sensor• Mechanical reach setting• Restrictable square detection zone for the typical shape of a room• 7 x 7 m tangential detection• 5 x 5 m radial detection• 4 x 4 m presence detection			<ul style="list-style-type: none">• HF-sensor• ideal for corridors with people walking towards the sensor• for 2 x 20 m (radially) detection zone• Electronic reach setting• Detection independent of temperature	<ul style="list-style-type: none">• Version with 9V alkaline block battery• Long-life lithium battery	<ul style="list-style-type: none">• CO₂ sensor for monitoring air quality• Traffic-light system for indicating air quality• Floating output• For connecting a ventilation system or window operating system providing automatic control for both	
<div> Presence Control PRO IR Quattro</div>			<div> Presence Control PRO Dual HF</div>	<div> Fire Control PRO</div>	<div> Air Control PRO Signal AP (surface-mounting)</div>	Sensor-Switched Floodlights
<div><ul style="list-style-type: none">•••••••</div>			<div><ul style="list-style-type: none">•••••••</div>	<div> Fire Control PRO Lithium</div>	<div> Air Control PRO Signal UP (concealed mounting)</div>	
Accessories						Wireless Sensor Systems
<div><div> Remote control RC3, Service</div><div> Remote control RC6, Service KNX</div></div>			<div><div> Remote control RC4</div><div> Remote control RC5 DALI</div></div>	<div><div> Remote control RC7 KNX</div><div> Surface-mounting adapter IP 54</div></div>	<div><div> Surface-mounting adapter KNX</div><div> Clamping-type adapter</div></div>	
						Support, Service

Presence Control PRO IR Quattro HD

Passive Infrared Presence Detector



- Extremely high-resolution
- 4 digital pyros
- 4800 switching zones for maximum detection quality
- Presence zone covering a true 64 m²
- Mechanical reach setting
- Precision planning as a result of square detection zone
- Precision, infinitely variable scalability
- Quickly installed, parameters quickly set
- Can be remotely controlled

We take high definition quite literally: PRESENCE CONTROL PRO IR QUATTRO HD

The "HD" version is our range-topping presence detector which provides performance that's second to none. And when we say high definition, we mean high definition: With performance specifications that are hard to believe, the precision of detection this model gives you is truly unique: 4800 switching zones, a genuine presence zone of 8 x 8 m (= no less than 64 sqm), mechanically scalable square detection zone. The secret behind this high-performance presence detector lies in the precision co-ordinated optical system, in the software developed with all the expertise from 20 years of sensor technology and in the first-ever use of 4 digital pyros, i.e. elements that detect infrared radiation emitted from a human being. Digital technology significantly improves signal evaluation even further without increasing the risk of switching errors.

HD is a presence detector for the most challenging of detection tasks in a building: Offices and classrooms, where most activities are performed sitting down, high spaces, such as sports halls and foyers, as well as meeting, training and conference rooms. The remote control allows you to select and set all the main functions, programmes and operating modes easily and conveniently. The Presence Control PRO IR Quattro HD gives you a wide range of options. It's available in a COM1, COM1 AP, COM2 as well as a 1 – 10 V DIM, KNX and DALI version.

Detection zone

Accessories



Detection zone:
20 x 20 m max., tangentially



Service remote control
RC3
RC6 KNX



Remote control
RC4



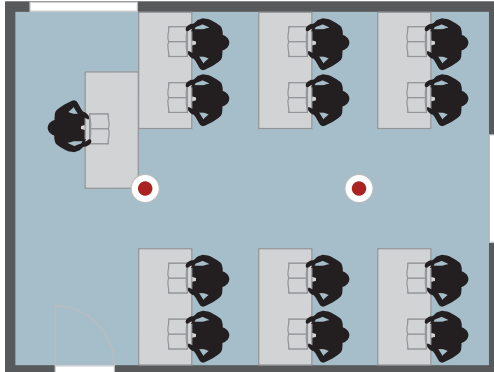
Remote control
RC5 DALI
RC7 KNX



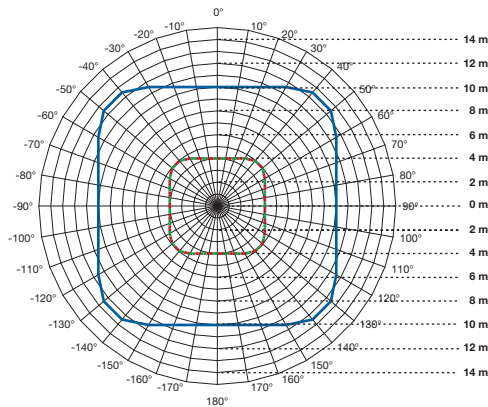
Clamping-type
ceiling adapter
Control PRO UP Box



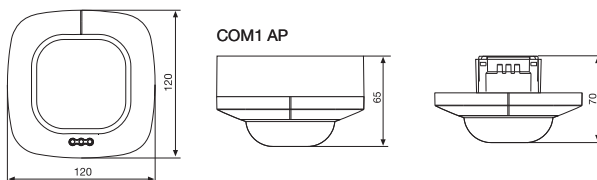
Surface-mounting adapter
Control PRO AP Box (IP 54)



tangential radial presence



Presence Control PRO IR Quattro HD, installation height 2.80 m
blue = tangentially, red = radially, green = presence



Interfaces



COM1
COM1 AP

KNX

COM2

DALI

DIM

Surface-mounting adapter
Control PRO AP Box KNX

Guard cage

For information on the interfaces specified,
please turn to page 92 in this section.

FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



IR Quattro HD

EAN	IR Quattro HD COM1	4007841 002794
	IR Quattro HD COM1 AP	4007841 592400
	IR Quattro HD COM2	4007841 002770
	IR Quattro HD DIM	4007841 002787
	IR Quattro HD KNX	4007841 002763
	IR Quattro HD DALI	4007841 002756
Dimensions (WxHxD)	120 x 120 x 76 mm	
Square detection zone	- Presence 8 x 8 m max. (64 sqm) - Radially 8 x 8 m max. (64 sqm) - Tangentially 20 x 20 m max. (400 sqm)	
Point of application	inside buildings	
recommended installation height	2.5 m – 10 m ceiling height	
Reach	mechanically adjustable	
Sensor system	13 detection levels, 4,800 switching zones	
Functions set at DIP switches (KNX using ETS software)	DIP 1 Normal / test mode DIP 2 Semi-/ fully automatic mode DIP 3 Pushbutton / switch mode DIP 4 Pushbutton 'ON' / pushbutton 'ON'-'OFF' DIP 5 Constant-lighting control 'ON'-'OFF' (DIM/DALI)	
Parallel connections	Master/slave Master/master	
User-friendly setting capability	Teach-in (with optional RC3 remote control)	
Light-level setting	10 – 1000 lux, ∞ / daylight DIM 100 – 1000 lux	
IP rating	IP 20 (IP 54 with AP Box)	
Protection class	II	
Temperature range	0° C to +40° C	
Housing	UV-resistant, paintable	
Accessories	- RC3 service remote control EAN 4007841 000387 - RC4 remote control EAN 4007841 003012 - RC5 DALI remote control EAN 4007841 592806 - RC6 KNX service remote control EAN 4007841 593018 - RC7 KNX remote control EAN 4007841 592912 - Surface-mounting adapter Control PRO AP Box EAN 4007841 000363 - Clamping-type ceiling adapter Control PRO UP Box EAN 4007841 000370 - Guard cage EAN 4007841 003036 - Surface-mounting adapter Control PRO AP BOX KNX EAN 4007841 003029	

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Presence Control PRO IR Quattro

Passive Infrared Presence Detector



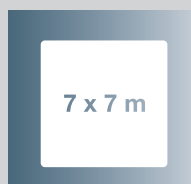
- 1760 switching zones for excellent detection quality
- Mechanical reach setting
- Precision planning from square detection zone
- Precision, infinitely variable scalability
- Quick installation, fast parameter setting

The new benchmark: the Presence Control PRO IR Quattro

A presence detector of the category that offers a host of innovative details, yet primarily a level of performance that's nothing short of perfect. The IR QUATTRO is the basic version from STEINEL Professional's new range of presence detectors. It provides a square detection zone (QUATTRO optical system) that can be mechanically scaled for precision adjustment to the specific detection task in a room. Adjusting reach results in no overall reduction or enlargement of presence, radial and tangential zones. Reducing reach precisely restricts the field's outer limits though. To begin with, the tangential zone becomes smaller until it is eliminated, then the radial range is taken out and finally the presence zone is reduced in size. This way, unbeatable detection qualities are maintained at all times in spite of optical restriction. All told, IR QUATTRO sensors provide a level of precision that's never been seen before. The RC3 service remote control allows you to select and set all the main functions, programmes and operating modes easily and conveniently. The Presence Control PRO IR Quattro also provides a wide range of options. It comes in a COM1, COM1 AP, COM2, IMPULSER as well as a 1 – 10 V DIM, KNX and DALI version and with RC3, RC4 Dim and RC5 DALI remote controls.

Detection zone

Accessories



Detection zone:
7 x 7 m max., tangentially



Service remote control
RC3
RC6 KNX



Remote control
RC4



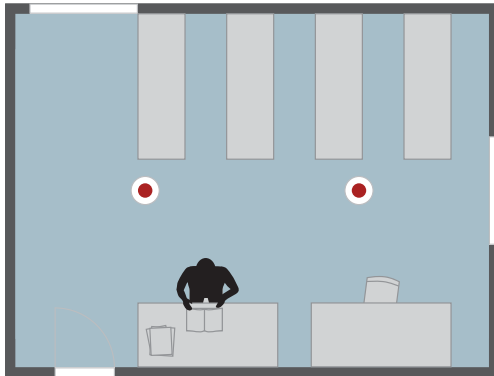
Remote control
RC5 DALI
RC7 KNX



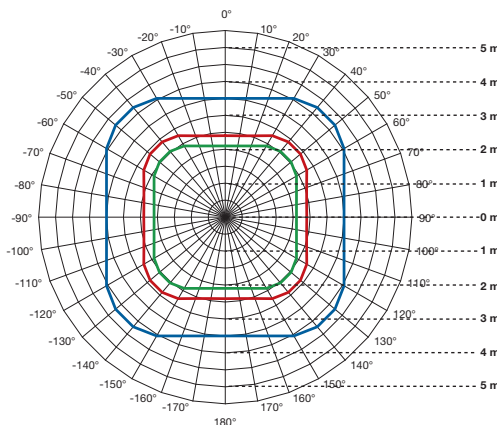
Clamping-type
ceiling adapter
Control PRO UP Box



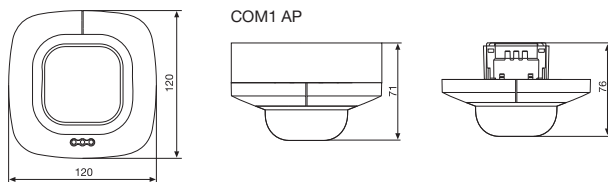
Surface-mounting adapter
Control PRO AP Box (IP 54)



tangential radial presence



Presence Control PRO IR Quattro, installation height 2.80 m
blue = tangentially, red = radially, green = presence



Interfaces



Surface-mounting adapter
Control PRO AP Box KNX



Guard cage

COM1
COM1 AP

KNX

COM2

DALI

DIM

IMPULSER
page 176

For information on the interfaces specified,
please turn to page 92 in this section.

FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



Presence Control PRO IR Quattro

Motion Detectors	EAN	IR Quattro COM1	4007841 000349
		IR Quattro COM1 AP	4007841 592301
		IR Quattro COM2	4007841 000356
		IR Quattro DIM	4007841 002718
		IR Quattro KNX	4007841 002701
		IR Quattro DALI	4007841 002749
Presence Detectors	Dimensions (WxHxD)	120 x 120 x 76 mm	
	Square detection zone	- Presence 4 x 4 m max. (16 sqm) - Radially 5 x 5 m max. (25 sqm) - Tangentially 7 x 7 m max. (49 sqm)	
	Application	inside buildings	
	recommended installation height	2.5 m – 8 m ceiling height	
SensorLights	Reach	mechanically adjustable	
	Sensor system	13 detection levels, 1760 switching zones	
	Functions set at DIP switches (KNX using ETS software)	DIP 1 Normal / test mode DIP 2 Semi-/ fully automatic mode DIP 3 Pushbutton / switch mode DIP 4 Pushbutton 'ON' / pushbutton 'ON'-'OFF' DIP 5 Constant-lighting control 'ON'-'OFF' (DIM/DALI)	
	Parallel connections	Master/slave Master/master	
Sensor-Switched Floodlights	User-friendly setting capability	Teach-in (with optional RC3 remote control)	
	Light-level setting	10 – 1000 lux, ∞ / daylight DIM 100 – 1000 lux	
	IP rating	IP 20 (IP 54 with AP Box)	
	Protection class	II	
Wireless Sensor Systems	Temperature range	0° C to +40° C	
	Housing	UV-resistant, paintable	
	Accessories	- Control PRO RC3 service remote control EAN 4007841 000387 - RC4 remote control EAN 4007841 003012 - RC5 DALI remote control EAN 4007841 592806 - RC6 KNX service remote control EAN 4007841 593018 - RC7 KNX remote control EAN 4007841 592912 - Surface-mounting adapter Control PRO AP Box EAN 4007841 000363 - Clamping-type ceiling adapter Control PRO UP Box EAN 4007841 000370 - Guard cage EAN 4007841 003036 - Surface-mounting adapter Control PRO AP BOX KNX EAN 4007841 003029	

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Presence Control PRO HF 360

High-Frequency Presence Detector



- High-frequency sensor system
- Extremely slim and "invisible"
- Detection irrespective of temperature
- Reach is electronically adjustable and can be restricted on two sides
- Ideal for WCs, changing rooms, stairwells etc.
- System with an extremely long life
- All connection options available

A pioneer of sensor technology: Presence Control PRO HF 360

The Presence Control PRO HF 360 for the first time provides a new technology for presence detectors: the high-frequency sensor system. This technology was developed by STEINEL Professional – there's no one else in the world with an understanding of this technology that's as deep and goes as long way back as ours does. Cutting-edge, high-frequency technology guarantees that movement is detected absolutely anywhere. Reach is electronically adjustable. This model is exceptionally slim, making it hardly visible mounted on the ceiling. Not without reason: With no lens and because it doesn't immediately look like a presence detector, it's not a target for wilful damage (for vandals, say). 1 or 2 detection directions can be masked out for adjustment to the room situation. As the sensor works with an active detection system, movements are detected no matter what the temperature. High-frequency sensors work extremely swiftly, switching light 'ON' instantly (e.g. in WCs: light comes 'ON' in response to the very first movement of the door, meaning it's already 'ON' as soon as someone enters the room). The Presence Control PRO HF 360 model is available in a COM1, COM1 AP, COM2 as well as a 1 – 10 V DIM, KNX and DALI version.

Detection zone



Reach: 1 – 8 m all round
Angle of coverage: 360°
Angle of aperture: 140°

5,8 GHz
1 mW

Our high-frequency sensors work at 5.8 GHz and 1 mW.

Accessories



Service remote control
RC3
RC6 KNX



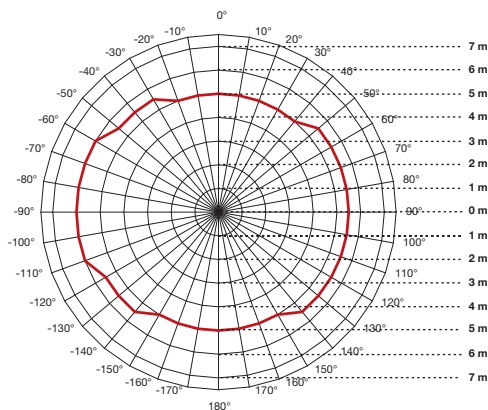
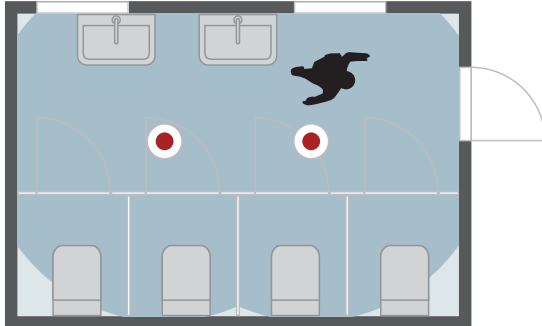
Remote control
RC4



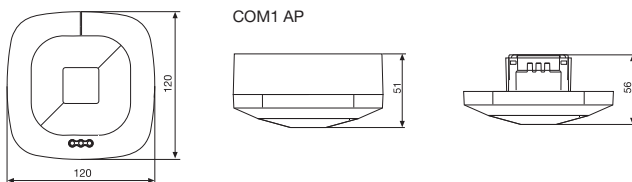
Remote control
RC5 DALI
RC7 KNX



Clamping-type
ceiling adapter
Control PRO UP Box



Presence Control PRO HF 360, installation height 2.80 m
red = radially



Presence Control PRO HF 360

Motion Detectors	EAN	HF 360 COM1 HF 360 COM1 AP HF 360 COM2 HF 360 DIM HF 360 KNX HF 360 DALI	4007841 002800 4007841 751302 4007841 002848 4007841 002831 4007841 002824 4007841 002817
	Dimensions (WxHxD)	120 x 120 x 56 mm	
	Point of application	inside buildings	
	recommended installation height	2.5 m – 3.5 m ceiling height	
	Detection angle	360° with 140° angle of aperture, also through glass, wood and stud walls; 1 or 2 detection directions can be masked for adjustment to room situation	
	Reach	8 m max. all round, electronically and infinitely variable	
Presence Detectors	Sensor system	High-frequency 5.8 GHz, transmission power < 1mW	
	Functions set at DIP switches (KNX using ETS software)	DIP 1 Normal / test mode DIP 2 Semi-/ fully automatic mode DIP 3 Pushbutton / switch mode DIP 4 Pushbutton 'ON' / pushbutton 'ON'-'OFF' DIP 5 Constant-lighting control 'ON'-'OFF' (DIM/DALI)	
	Parallel connections	Master/slave Master/master	
	User-friendly setting capability	Teach-in (with optional RC3 remote control)	
	Light-level setting	10 – 1000 lux, ∞ / daylight DIM 100 – 1000 lux	
	IP rating	IP 20 (IP 54 with AP Box)	
SensorLights	Protection class	II	
	Temperature range	0° C to +40° C	
	Housing	UV-resistant, paintable	
	Accessories	<ul style="list-style-type: none"> - RC3 service remote control EAN 4007841 000387 - RC4 remote control EAN 4007841 003012 - RC5 DALI remote control EAN 4007841 592806 - RC6 KNX service remote control EAN 4007841 593018 - RC7 KNX remote control EAN 4007841 592912 - Surface-mounting adapter Control PRO AP Box EAN 4007841 000363 - Clamping-type ceiling adapter Control PRO UP Box EAN 4007841 000370 - Guard cage EAN 4007841 003036 - Surface-mounting adapter Control PRO AP Box KNX EAN 4007841 003029 	
Sensor-Switched Floodlights			
Wireless Sensor Systems			



COM1
COM1 AP

KNX

COM2

DALI

DIM

Surface-mounting adapter
Control PRO AP Box (IP 54)

Surface-mounting adapter
Control PRO AP Box
KNX

Guard cage

For information on the
interfaces, please turn to
page 92 in this section.

FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



Presence Control PRO Dual HF

High-Frequency Presence Detector for Corridors



- Ideal corridor sensor using high-frequency technology
- Reliable detection over up to 20 m
- Reach electronically adjustable for both directions together
- Detection irrespective of temperature
- Ideal for detecting radial movement towards the sensor
- Ideal in corridors of normal ceiling height (hotel landings, halls and passageways at home, etc.)

Lighting automation perfected: Presence Control PRO DUAL HF

This product uses high-frequency technology that differs from the one used by the Presence Control PRO HF 360: DUAL HF with dual directional characteristic. Landings in hotels, corridors in schools and office buildings etc. are typical areas that lend themselves to automatic lighting control. But so far, there's been no sensor that could really cope with the job satisfactorily. That's a bold claim, but one that can be explained in physical terms. In corridors, most people walk towards the sensor (radially). Because of the direction they walk in, this is where infrared sensors installed at normal ceiling height are pushed to their limits because the probability of someone crossing 2 switching zones is rare and only happens late on. Attempts can be made to improve this situation by using special lenses, but at the end of the day it's the laws of physics that count. High-frequency technology, in contrast, even prefers a radial walking direction because the signal generated is even greater. The DUAL HF sensor is the first system to be featured in our range that uses 2 special HF-sensors to watch over both directions in a corridor from the ceiling: providing reliable detection over up to 24 m! Truly unique! Reach can be proportionally reduced in both directions all electronically. This model is available in the COM1, COM1 AP, KNX, DALI and 1 – 10 V DIM connecting options.

Detection zone



Max. reach: 3 – 10 m in each direction, infinitely adjustable



Our high-frequency sensors work at 5.8 GHz and 1 mW.

Accessories



Service remote control
RC3
RC6 KNX



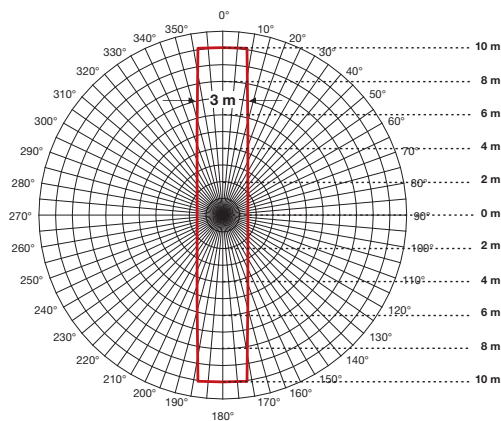
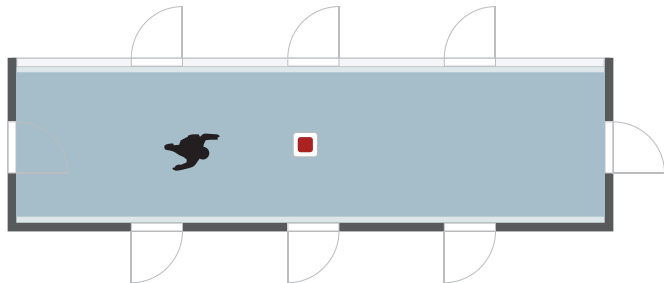
Remote control
RC4



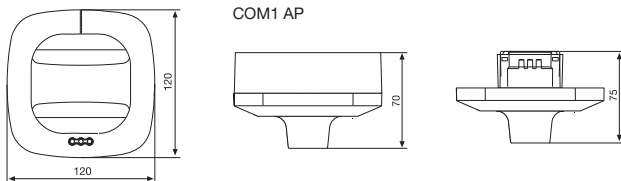
Remote control
RC5 DALI
RC7 KNX



Clamping-type ceiling adapter
Control PRO UP Box



Presence Control PRO Dual HF, installation height 2.8 m,
indoor corridor situation, radial walking direction



Presence Control PRO DUAL HF360

EAN	DUAL HF COM1	4007841 002978
	DUAL HF COM1 AP	4007841 590703
	DUAL HF DIM	4007841 002985
	DUAL HF KNX	4007841 002992
	DUAL HF DALI	4007841 003005
Dimensions (WxHxD)	120 x 120 x 76 mm	
Point of application	inside buildings	
recommended installation height	2.5 m – 3.5 m ceiling height	
Detection angle	360° with 140° angle of aperture, also through glass, wood and stud walls	
Reach	10 x 3 m max. in each direction, electronically and infinitely adjustable	
Sensor system	High-frequency 5.8 GHz, transmission power < 1mW	
Functions set at DIP switches (KNX using ETS software)	DIP 1 Normal / test mode DIP 2 Semi-/ fully automatic mode DIP 3 Pushbutton / switch mode DIP 4 Pushbutton 'ON' / pushbutton 'ON'-'OFF' DIP 5 Constant-lighting control 'ON'-'OFF' (DIM/DALI)	
Parallel connections	Master/slave Master/master	
User-friendly setting capability	Teach-in (with optional RC3 remote control)	
Light-level setting	10 – 1000 lux, ∞ / daylight DIM 100 – 1000 lux	
IP rating	IP 20 (IP 54 with AP Box)	
Protection class	II	
Temperature range	0° C to +40° C	
Housing	UV-resistant, paintable	
Accessories	- RC3 service remote control EAN 4007841 000387 - RC4 remote control EAN 4007841 003012 - RC5 DALI remote control EAN 4007841 592806 - RC6 KNX service remote control EAN 4007841 593018 - RC7 KNX remote control EAN 4007841 592912 - Surface-mounting adapter Control PRO AP Box EAN 4007841 000363 - Clamping-type ceiling adapter Control PRO UP Box EAN 4007841 000370 - Guard cage EAN 4007841 003036 - Surface-mounting adapter Control PRO AP Box KNX EAN 4007841 003029	



Surface-mounting adapter
Control PRO AP Box (IP 54)

Surface-mounting adapter
Control PRO AP Box
KNX

Guard cage

COM1
COM1 AP

KNX

DIM

DALI

IMPULSER
Page 176

For information on the
interfaces, please turn to
page 92 in this section.

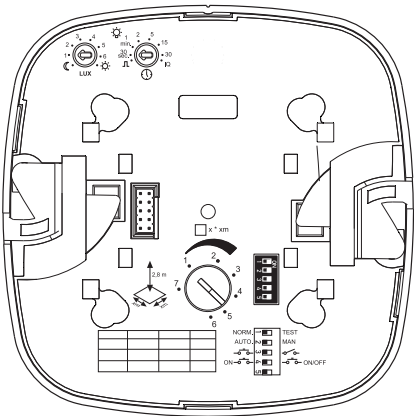
FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



Presence Detector Interfaces/Operation

COM1/COM1 AP (Switching Light)



COM1

COM1 AP

Presence Control PRO

Voltage	230 – 240 V, 50 Hz/60 Hz
Output	Relay 230 V - Resistive load 2000 W max. (cos φ = 1) - 1000 VA max. (cos φ = 0.5) - Max. 'ON' current 800 A/200 μs - 30 x (1 x 18 W), 25 x (2 x 18 W) - 25 x (1 x 36 W), 15 x (2 x 36 W) - 20 x (1 x 58 W), 10 x (2 x 58 W) Pay attention to specific 'ON' currents of electronic ballasts. A relay or contactor must be provided on line side for higher switching capacities.
Time setting	30 sec. – 30 min., pulse mode (approx. 2 sec.), IQ mode (automatic adjustment to usage profile)

Presence Detector Network

STEINEL Professional offers you all the customary connection options. Straightforward and efficient, they provide the means of interconnecting presence detectors to create entire, automatically controlled lighting systems. From COM1 and COM2, KNX, DALI and DIM interface, right through to interconnecting presence detectors using our Impulser system, STEINEL Professional covers the entire range of connection options. Interfaces are simply selected exactly as required for the chosen models to provide technically perfected lighting automation tailored to the specific application.

COM1 and COM1 AP interfaces are available for the following sensors:

- IR Quattro
- IR Quattro HD
- HF 360
- DUAL HF

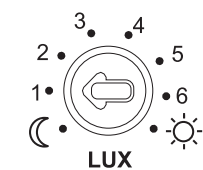
COM1/COM1 AP (surface-mounting) interface is only responsible for switching light 'ON' and 'OFF'.

Lighting controller

Operating in response to ambient brightness and the presence of persons, the lighting controller switches light 'ON' when it's needed and 'OFF' again when it isn't. Light is only switched 'ON' when it's needed. Avoiding any wastage of energy and unnecessary costs.

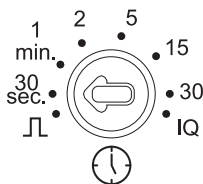
Brightness level potentiometer for light output

When ambient light falls below the preselected brightness level, the detector switches artificial light 'ON' whenever someone is present. Brightness level is set on a scale from 1 – 6, with these levels reflecting typical room situations. Alternatively, day or night-time mode can be selected. Using the RC3 service remote control, current brightness level can be programmed in (teach-in mode) as the switching threshold.

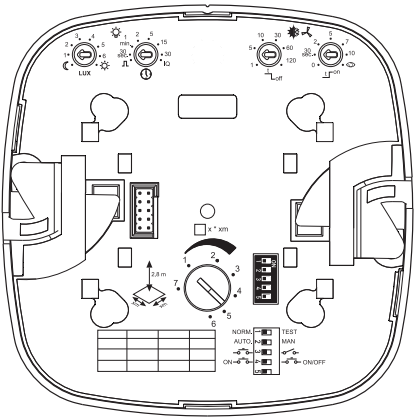


Stay-'ON' time potentiometer for light output

Lighting stay-'ON' time indicates the time light stays 'ON' for until switching 'OFF' again after the last detected movement. A pulse mode activating any staircase lighting time switch and the IQ mode are provided as special functions. The IQ mode automatically matches stay-'ON' time to suit room and usage situation.



COM2 (Switching Light & HVAC)



The COM2 interface is available for the following sensors:

- IR Quattro
- IR Quattro HD
- HF 360



COM2 is the interface for using the presence detector to control heating, ventilation and air-conditioning in addition to lighting. This way, all room services can be managed conveniently and with maximum energy efficiency.

Lighting controller
Operating in response to ambient brightness and the presence of persons, the lighting controller switches light 'ON' when it's needed and 'OFF' again when it isn't. Light is only switched 'ON' when it's actually required. Avoiding wastage of energy and unnecessary costs.

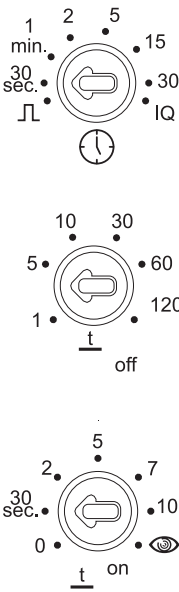
HVAC control
Heating, ventilation and air-conditioning systems are controlled from the HVAC output. This only switches systems 'ON' and 'OFF' in relation to the presence of persons since heating, ventilation and air-conditioning need to be provided even if daylight is bright enough. If a room is not being used any more, heating, ventilation and air-conditioning can be switched off to save energy and costs.

Brightness threshold potentiometer for light output
When ambient light falls below the preselected brightness level, the detector switches artificial light 'ON' whenever someone is present. Brightness level is set on a scale from 1 – 6, with these levels reflecting typical room situations. Alternatively, day or night-time mode can be selected. Using the RC3 service remote control, the current brightness level can be programmed in (teach-in mode) as the switching threshold.

COM2

Presence Control PRO

Voltage	230 – 240 V, 50 Hz/60 Hz
Power Switching contact 1	Relay 230 V - Resistive load 2000 W max. (cos φ = 1) - 1000 VA max. (cos φ = 0.5) - Max. 'ON' current 800 A/200 μs - 30 x (1 x 18 W), 25 x (2 x 18 W) - 25 x (1 x 36 W), 15 x (2 x 36 W) - 20 x (1 x 58 W), 10 x (2 x 58 W) Pay attention to specific 'ON' currents of electronic ballasts! A relay or contactor must be provided on line side for higher switching capacities.
Power Switching contact 2	Presence - 230 W max./230 V - 1A max. (cos φ = 1) for HVAC (heating/ventilation/air-conditioning)
Time setting Switching contact 1	30 sec. – 30 min., pulse mode (approx. 2 sec.), IQ mode (automatic adjustment to usage profile)
Time setting Switching contact 2	0 sec. – 10 min. switch-'ON' delay 1 min. – 2 h stay-'ON' time automatic room surveillance



Stay-'ON' time potentiometer for light output
The light output's stay-'ON' time defines how long light is set to stay 'ON' for after the last movement is detected. A pulse mode activating any staircase lighting time switch and the IQ mode are provided as special functions. The IQ mode automatically matches the stay-'ON' time to suit any particular room situation and its usage.

Stay-'ON' time potentiometer for HVAC output
The HVAC output controls interfaced actuators in relation to presence as heating, ventilation and air-conditioning need to stay 'ON' during the day too. The stay-'ON' time selected indicates how long the HVAC output is to stay 'ON' for after the last detected movement.

Switch-'OFF' delay potentiometer for HVAC output
The HVAC output time delay provides the capability of setting a time delay of up to 10 minutes before switching the contact. It can be switched 'ON' immediately by selecting the 0 seconds setting. The room surveillance function provides the means of activating the HVAC switching contact only when the room is being used. The actuator only switches in when many movements are being detected. This way, for example, taking a quick look into a room leaves the actuator 'OFF'.

Motion Detectors

Presence Detectors

SensorLights

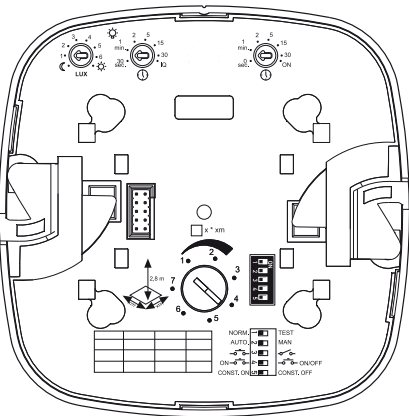
Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Presence Detector Interfaces/Operation

1 – 10 V DIM (Switches and Controls Light):



DIM

Presence Control PRO

Voltage	230 – 240 V, 50 Hz/60 Hz
Output	Relay 230 V - Resistive load 2000 W max. (cos ϕ = 1) - 1000 VA max. (cos ϕ = 0,5) - Max. 'ON' current 800 A/200 μ s - 30 x (1 x 18 W), 25 x (2 x 18 W) - 25 x (1 x 36 W), 15 x (2 x 36 W) - 20 x (1 x 58 W), 10 x (2 x 58 W) Pay attention to specific 'ON' currents of electronic ballasts! A relay or contactor must be provided on line side for higher switching capacities.
Time setting	30 sec. – 30 min., IQ mode (automatic adjustment to the usage profile)
Control output	1 – 10 V, 50 electronic ballasts max. (100mA max.)
Basic brightness	0 sec. – 30 min., 10 %

The DIM interface is available for the following sensors:

- IR Quattro
- IR Quattro HD
- HF 360
- DUAL HF

The 1 – 10 V DIM interface allows you to control light by means of the constant-lighting controller and activated basic brightness.

Lighting controller

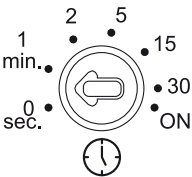
The preselected brightness level indicates the level of light that's to be maintained in a room all the time. The basic brightness function provides the capability of selecting a basic lighting level of 10% after the stay-'ON' time elapses. It can be switched 'ON' for safety purposes or to show the way for a specific period, or if ambient light falls below the brightness threshold.

Brightness threshold potentiometer for light output

When ambient light falls below the preselected brightness level, the detector switches artificial light 'ON' whenever someone is present. Brightness level is set on a scale from 1 – 6, with these levels reflecting typical room situations. Alternatively, day or night-time mode can be selected. Using the RC3 service remote control, current brightness level can be programmed in (teach-in mode) as the switching threshold.

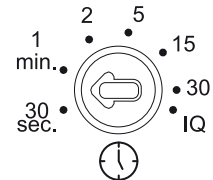
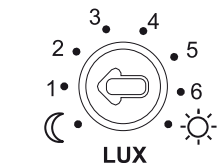
Stay-'ON' time potentiometer for light output

The light output's stay-'ON' time indicates the time light stays 'ON' for until switching 'OFF' again after the last detected movement. The IQ mode is provided as a special function. The IQ mode automatically matches the stay-'ON' time to suit the room and usage situation.

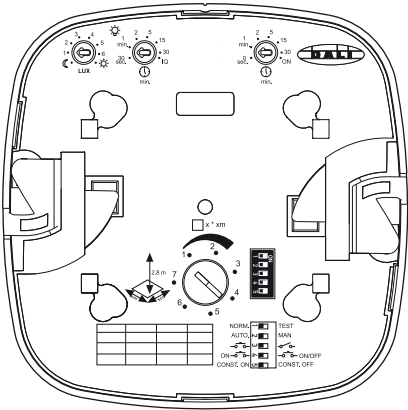


Stay-'ON' time potentiometer for basic brightness

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



DALI (Digital DIM Interface for Controlling 2 Lighting Channels)



The DALI interface is available for the following sensors:

- IR Quattro
- IR Quattro HD
- HF 360
- DUAL HF



Controlling lighting through the Digital DALI interface provides the capability of managing light by means of a constant-lighting controller as well as leaving a basic brightness switched 'ON', e.g. in corridors or stairwells.

Lighting controller

The preselected brightness level indicates the level of light that is to be constantly maintained in the room. The basic brightness function provides the capability of selecting a basic lighting level of 10% after the stay-'ON' time elapses. It can be switched 'ON' for safety purposes or to show the way for a specific period or if ambient light falls below the brightness threshold. The DALI interface additionally provides a second light output that can be operated by remote control independently of the first light output. DALI also allows you to save and retrieve two different lighting situations by remote control as a means of quickly and easily providing recurring lighting scenarios (e.g. presentations) at the press of a button.

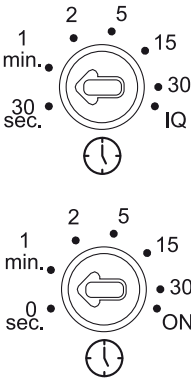
Brightness threshold potentiometer for light output

When ambient light falls below the preselected brightness level, the detector switches artificial light 'ON' whenever someone is present. The brightness level is set on a scale from 1 – 6, with these levels reflecting typical room situations. Alternatively, day or night-time mode can be selected. Using the RC3 service remote control, the current brightness level can be programmed in (teach-in mode) as the switching threshold.



Presence Control PRO

Voltage	230 – 240 V, 50 Hz/60 Hz
DALI output 1	2-core DALI control cable/broadcast
DALI output 2	2-core DALI control cable/broadcast
Controllable DALI electronic ballasts	12 DALI electronic ballasts per output mode
Time setting	30 sec. – 30 min., IQ mode
Basic brightness	0 sec. – 30 min., 10 %



Stay-'ON' time potentiometer for light output

The light output's stay-'ON' time indicates the time light stays 'ON' for until switching 'OFF' again after the last detected movement. The IQ mode is provided as a special function. The IQ mode automatically matches the stay-'ON' time to suit the room and usage situation.

Stay-'ON' time potentiometer for basic brightness

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

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Presence Detector Interfaces/Operation

KNX (Digital BUS interface for 4 lighting controls & HVAC (heating/ventilation/air-conditioning))



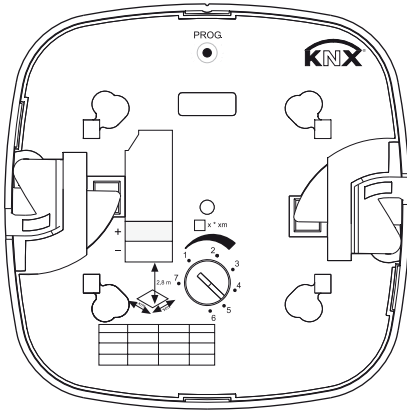
**The last word in flexibility,
convenience and security: KNX**

KNX is a field bus, an upgrade of the EIB, and has the purpose of interconnecting individual components for automating building services. It provides the capability of using a single system for controlling services, such as lighting, heating, ventilation and air-conditioning, alarm and surveillance systems, interfaces for maintenance work and building protection etc. KNX is used for interconnecting various devices (via twisted cable pairs, wireless link, 230V mains power, IP/Ethernet). Data can then be communicated freely between individual components – irrespective of make or type of application. The various components can be configured at any time i.e. also retrospectively. Tailoring light management in this way produces a high level of efficiency and matches it to requirements.

IR remote controls

Two special IR remote controls are available as accessories for our presence detectors. These allow the user to make settings very easily for lighting, dimming as well as saving and retrieving up to 4 scenarios. Brightness measurement can be calibrated by remote control, detector parameters can also be changed without using the ETS software and a test mode can be started and terminated. In the KNX version, parameters changed by IR remote control can be read and written via the bus.





The KNX interface is available for the following sensors:

- IR Quattro
- IR Quattro HD
- HF 360
- DUAL HF

The Control PRO System presence detectors equipped with the KNX interface are capable of performing the following functions:

- Presence detection
- Controlling lighting with brightness control
- Controlling HVAC

Presence detection

This function watches over a room. A signal is immediately sent out as soon the presence of a person is reliably detected and also as soon as presence stops being detected. This watchdog function can, for example, be inhibited during the day and only enabled at night for a specific duration as well as over the weekend.

Lighting controller

Operating in relation to ambient brightness and the presence of persons, the lighting controller switches light 'ON' when it's needed and 'OFF' again when it isn't. Light is only switched 'ON' when it's needed. Avoiding any waste of energy and unnecessary costs.

HVAC controller

Heating, ventilation and air-conditioning systems are controlled using the HVAC output. This only switches systems 'ON' and 'OFF' in relation to persons being present because heating, ventilation and air-conditioning need to be provided even if daylight is sufficient. When a room is not being used any more, heating, ventilation and air-conditioning can be switched off to save energy and costs.

Presence detector operating modes

One of the following operating modes needs assigning to the presence detector:

- Individual detector
- Master
- Slave
- Master in parallel mode



Presence Control PRO

KNX mains connection	24 V via KNX bus voltage
Settings	by means of ETS software, remote control or bus
Lighting channels Light 1 – Light 4	Switching/dimming; Switching mode - constant-lighting control
Stay-'ON' time	IQ mode, 1 – 30 min., depending on presence and brightness
Light measurement	Mixed light
Basic brightness	OFF/ 10% – 50%
Stay-'ON' time	Basic brightness 'ON' duration, 1 – 30 min.
HVAC output	depending on presence
Switch-'ON' delay	Room surveillance, 1 – 30 min.
Stay-'ON' time	1 – 120 min.
Presence stay-'ON' time output	1 – 255 sec.
Further outputs	Brightness level

Individual detector

Only one detector is installed in the room.

Master

Presence detection zone can be extended by connecting as many as 4 additional presence detectors (slaves or master in parallel mode) to the master via the bus. The main detector ascertains overall presence (is a person present in at least one of the detection zones?), controls lighting, heating, ventilation and air-conditioning for the entire room and sends the relevant objects.

Slave

A slave delivers the "Presence 'ON'" and "Presence 'OFF' information to the main detector.

Main master in parallel mode

As many as 4 secondary masters in parallel mode can be connected to a master in parallel mode. These provide independent lighting management with brightness control for their specific detection zone. The main detector ascertains overall presence (is a person present in at least one of the detection zones?), controls lighting, heating, ventilation and air-conditioning for the entire room and sends the relevant objects.

Motion Detectors

Presence Detectors

SensorLights

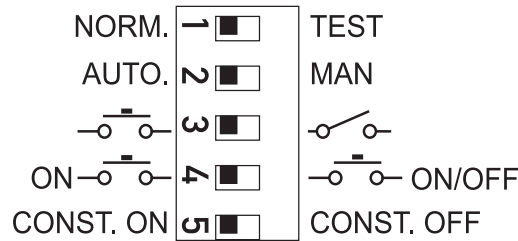
Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Presence Detector Interfaces/Operation

DIP Switches



The functions of the DIP switches apply to all connection options.

Normal/test-mode DIP switches

The test mode has the purpose of checking for proper operation as well as for setting and pacing out the detection zone. On detecting presence, the presence detector switches the load 'ON' for approx. 8 seconds. In addition, the blue indicator LED on the presence detector instantly shows that a detection has been made, permitting load-free testing. In the normal operating mode, the presence detector operates on the basis of the functions and values set by potentiometer, DIP switch and remote control.

Fully/semi-automatic mode DIP switches

In the fully automatic mode, the detector switches 'ON' when movement is detected and ambient light falls below the brightness threshold selected. Light is automatically switched 'OFF' when movement is no longer being detected and the stay-'ON' time selected has elapsed or there is sufficient daylight. Working as a semi-automatic unit, the detector only switches 'ON' and automatically 'OFF' again after manually operating an external button or switch.

Button/switch DIP switches

A separate "S" terminal allows an external button or switch to be connected to the presence detector. To evaluate the signal, the detector needs to know whether an external button or switch is connected. This can be used for operating the detector as a semi-automatic unit and for manually overriding it at any time (4h 'ON', 4h 'OFF').

'ON' - 'ON'/'OFF' DIP switches

Two options are provided here: ON/OFF means that the detector can be switched 'ON' and 'OFF' manually at any time. 'ON', in contrast, means it can only be switched 'ON' manually. This prevents light from being switched 'OFF' in areas requiring permanent security lighting or, for example, when using a detector as a staircase lighting time switch.

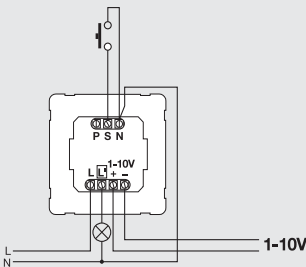
Constant-lighting control - 'ON'/'OFF' DIP switches

Constant-lighting control provides a constant level of light in offices, classrooms, conference rooms etc. The detector measure the prevailing level of daylight and switches in a component of artificial light to achieve the desired level of brightness. As daylight changes, the switched-in artificial lighting component is adjusted accordingly. In addition to the daylight component, artificial light is also switched 'ON' and 'OFF' in relation to whether or not persons are present.

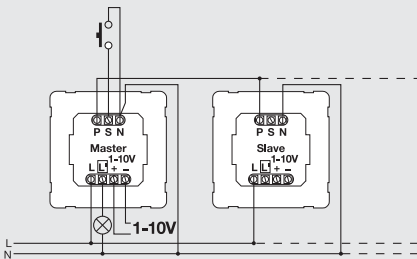
Interconnected master/master - master/slave system

The presence detectors also provide the option of an interconnected master/master and master/slave system. In the case of an interconnected master/master system, the detection zone is extended by the interconnected detectors, each switching a load in accordance with specific master settings. The slaves in an interconnected master/slave system merely extend the detection zone and report presence to the master. The connected load is only switched 'ON' and 'OFF' on the basis of the master's settings.

DIM detector



DIM detector with slave



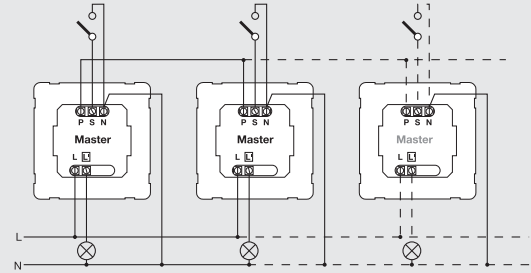
Wiring Diagrams



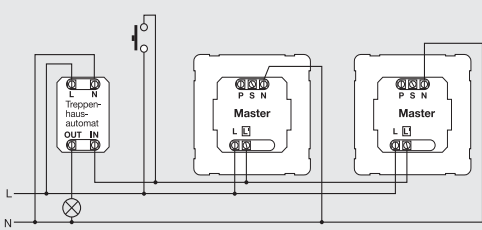
Motion Detectors

Presence Detectors

Master/master COM1

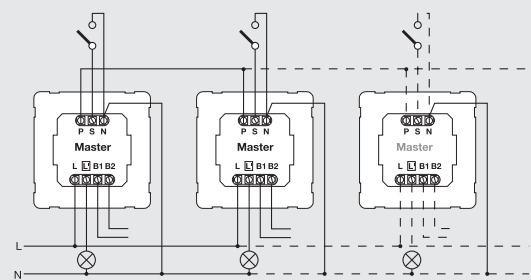


2 detectors connected to external staircase lighting time switch
Old building/refurbishment project

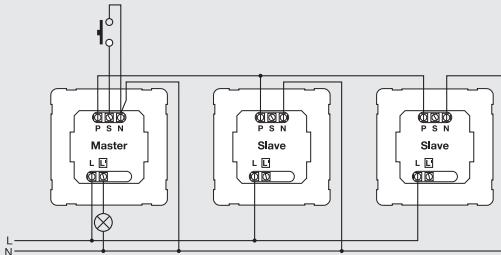


SensorLights

Master/master
COM1/COM2

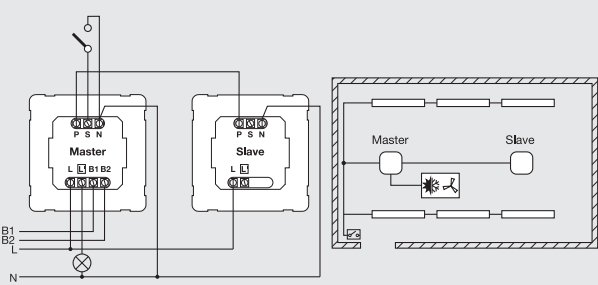


Detector connected to staircase lighting time switch



Sensor-Switched
Floodlights

Master/slave



Wireless Sensor Systems

Support, Service

Accessories for Presence Control PRO

Remote Controls

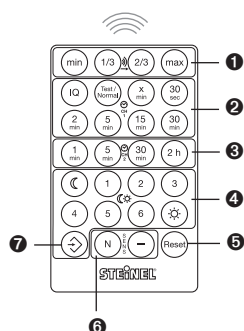


RC3 service remote control

EAN 4007841 000387

RC6 KNX service remote control

EAN 4007841 593018



- ❶ Reach setting HF
- ❷ Stay-'ON' time, switching contact 1, light
- ❸ Stay-'ON' time, switching contact 2 (HVAC)
- ❹ Twilight setting
- ❺ Reset function at potentiometer and DIP settings
- ❻ Reduce sensitivity (HF only, cf. RS PRO)
- ❼ Teach IN

suitable for Presence Control PRO

- IR Quattro HD
- IR Quattro
- HF 360
- Dual HF 360

RC3 in conjunction with COM1, COM1 AP, DIM and DALI interface

RC6 KNX in conjunction with KNX interface

RC4 user remote control

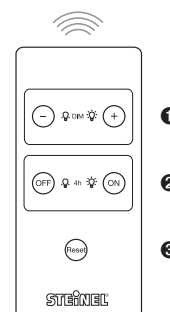
EAN 4007841 003012

- ❶ Light dimming function
- ❷ Light 'ON'/'OFF' (4 hours)
- ❸ Reset function at potentiometer and DIP settings

suitable for Presence Control PRO

- IR Quattro HD
- IR Quattro
- HF 360
- Dual HF 360

RC4 in conjunction with COM1, COM1 AP, COM2 and DIM interface



You will find further information on operation at:
www.steinel.de



Motion Detectors

Presence Detectors

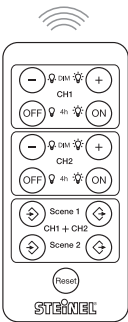
RC5 DALI user remote control
EAN 4007841 592806
RC7 KNX user remote control
EAN 4007841 592912

- ➊ Reduce DIM level, increase output 1
- ➋ Permanent 'OFF'/'ON', output 1 (4 hours)
- ➌ Reduce DIM level, increase output 2
- ➍ Permanent 'OFF'/'ON', output 2 (4 hours)
- ➎ Save lighting scenario 1
(value for output 1/2 is saved)
- ➏ Save lighting scenario 2
(value for output 1/2 is saved)
- ➐ Reset function at potentiometer and
DIP settings

suitable for Presence Control PRO

- IR Quattro HD
- IR Quattro
- HF 360
- Dual HF 360

RC5, in each case with DALI interface
RC7, in each case with KNX interface



SensorLights

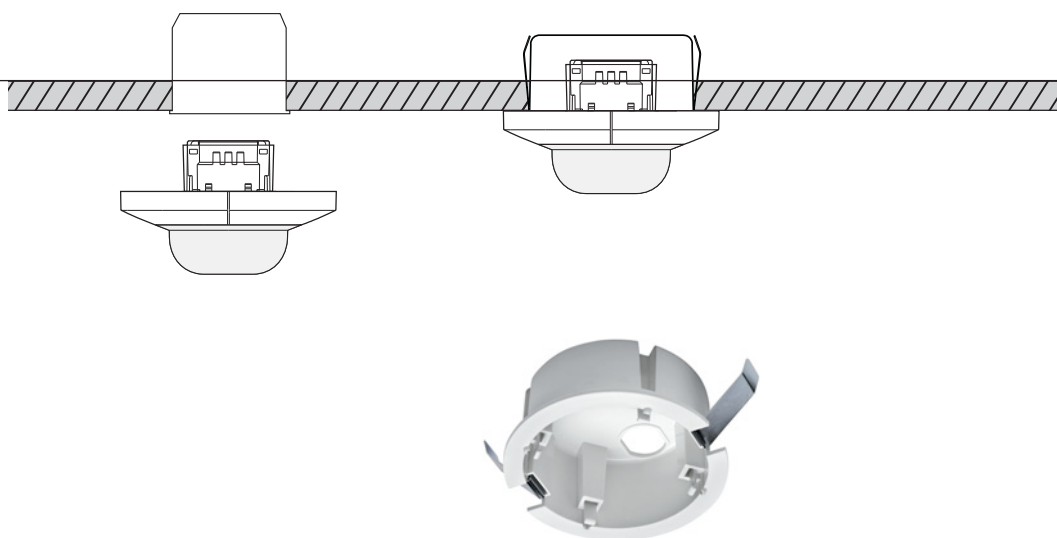
Sensor-Switched
Floodlights

Wireless Sensor Systems

Support, Service



Accessories for Presence Control PRO



Standard installation

The products are intended as standard for concealed installation in flush-mounting boxes.

Clamping-type ceiling adapter

Control PRO UP Box

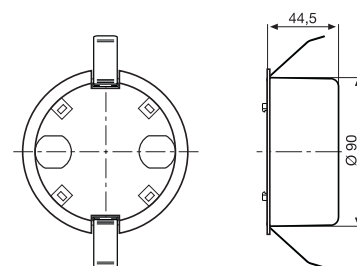
EAN 4007841 000370

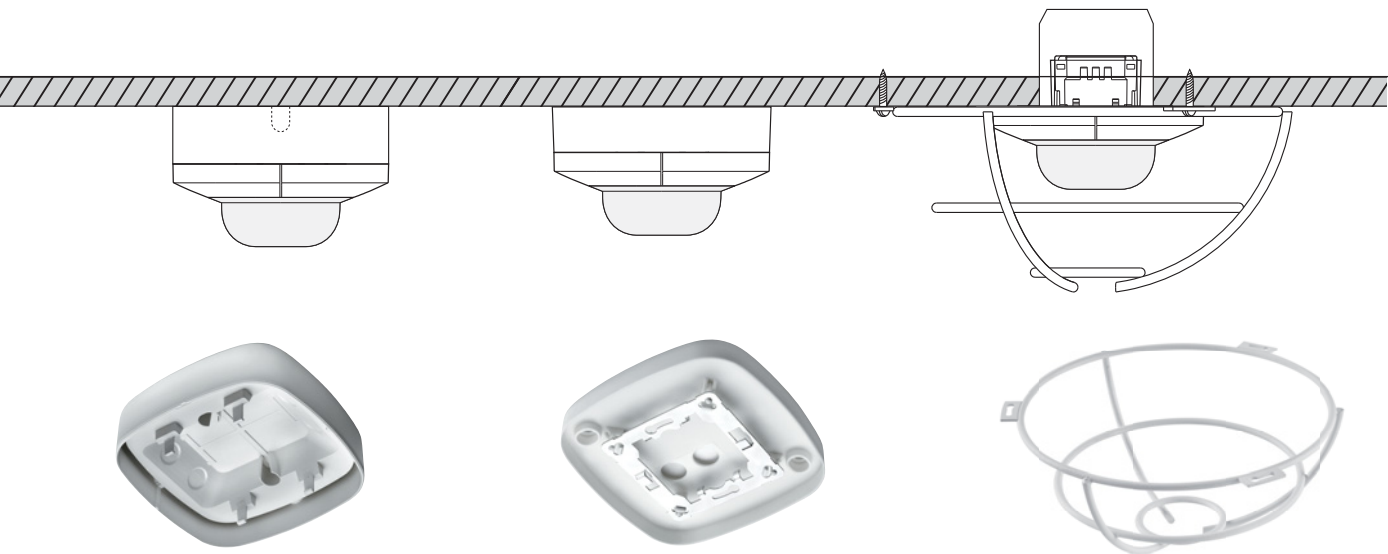
The clamping-type adapter can be used for fitting the chosen detector directly in the ceiling. Installation is fast and straightforward, no additional screw-mounting or fixing necessary.

suitable for Presence Control PRO

- IR Quattro HD
- IR Quattro
- HF 360
- Dual HF 360

- COM1
- COM2
- DIM
- KNX
- DALI





Motion Detectors

Presence Detectors

**Surface-mounting adapter
Control PRO AP Box (IP 54)**

EAN 4007841 000363

The surface-mounting adapter Control PRO AP Box is provided for facilitating surface-mounting. With four-wire cable entry and large wiring compartment, installation is convenient and requires hardly any effort. It provides protection rating to IP 54.

suitable for Presence Control PRO

- IR Quattro HD
- IR Quattro
- HF 360
- Dual HF 360

- COM1
- COM2
- DIM
- DALI

**Surface-mounting adapter
Control PRO AP Box KNX**

EAN 4007841 003029

Also featuring four-wire cable entry and a large wiring compartment, the surface-mounting adapter is suitable for surface-mounting the KNX and DALI connection options.

suitable for Presence Control PRO

- IR Quattro HD
- IR Quattro
- HF 360
- Dual HF 360

- KNX

Guard cage Control PRO

EAN 4007841 003036

It provides protection from damage, e.g. from balls or vandals.

suitable for Presence Control PRO

- IR Quattro HD
- IR Quattro
- HF 360
- Dual HF 360

- COM1/COM1 AP
- COM2
- DIM
- KNX
- DALI

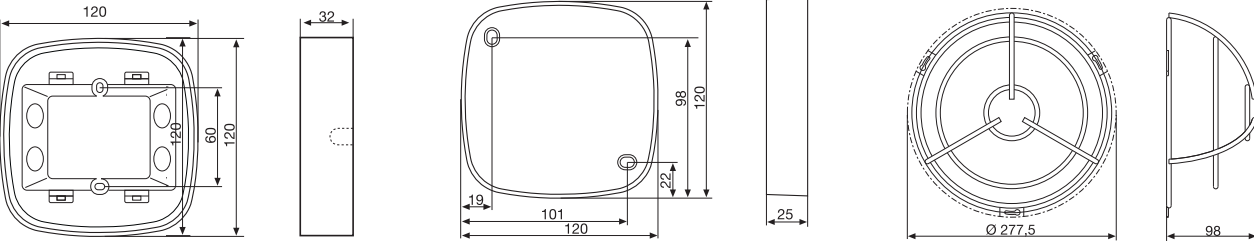
- Air Control
- Fire Control

SensorLights

Sensor-Switched
Floodlights

Wireless Sensor Systems

Support, Service



Fire Control PRO

Smoke Detector



- Identifying hazards
- Warning people
- Saving life



- 2 detection sensor variables: smoke and temperature (optical/thermal)
- Light sensor for low-battery warning during the day (loud acoustic warning signal)
- 24 h auto-calibration
- Microprocessor-controlled signal evaluation
- Symmetrical-flow smoke chamber
- Temperature-drift correction
- Cyclical self-test function
- Also suitable for kitchens and bathrooms
- Design co-ordinated with presence detector for a neat ceiling look

The new generation of safety: Fire Control

The Fire Control PRO is a state-of-the-art smoke detector neatly integrated in the Control PRO family from STEINEL Professional. As a DUAL sensor, the Fire Control PRO uses two detection methods for twice the safety: Smoke and temperature detection. Smoke is detected in a specially designed smoke chamber, temperature by a thermo-differential sensor.

It provides the capability of reliably detecting different types of fire, such as burning liquids or smouldering fires. This also makes the system less receptive to kitchen and bathroom vapours, dust or electrical interference pulses. The Fire Control PRO benefits from processor-controlled signal evaluation and drift compensation, preventing any triggering of false alarms to the greatest possible extent.



Indicated status:
OK / Fire detected /
230 V



Smoke detection
deactivated for 15 min.
or test mode

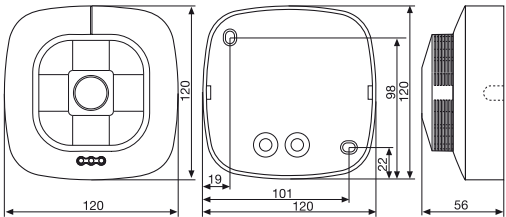


Smoke detection can be deactivated for 10 minutes by function button (e.g. in the event a large controlled quantity of smoke coming from a saucepan); with temperature detection remaining active. To begin with, a light sensor only allows the acoustic low-battery warning to sound during the day. Only when battery capacity becomes critical is a warning also given at night. In addition to the 9-V battery (lithium or metal hydride), the Fire Control PRO smoke detector also comes with a 230-V connection and a communication port for interconnecting detectors. Needless to say, the STEINEL Fire Control is VDS-tested and has a self-test feature.



Fire Control PRO

EAN	FC PRO FC PRO Lithium	4007841 590406 4007841 000073
Dimensions (WxHxD)	120 x 120 x 56 mm	
Rated voltage	230 V	
Battery	9-V MH block battery, or 9-V long-life lithium block battery	
Battery failure signal	30 s cycle, 30 days	
Acoustic alarm	85 dB (A)	
Maximum detection zone	80 m²	
Relay contact	1 A 250 V	
IP rating	IP 40	
Protection class	II	
Operating temperature	0° C to 40° C	
Storage temperature	-5° C to +70° C	
Interconnectability	up to 30 Fire Control PRO	



Air Control PRO Signal

Air-Quality Sensor



AC PRO Signal

- Air-quality sensor matching presence detector
- High energy-saving potential from on-demand ventilation
- Automatic, maintenance-free CO₂ measurement
- Controls air-conditioning (ventilation, window opening, co-ordinated heating control etc.)
- Provides information on air quality and the need for fresh air (visually and acoustically)
- Also suitable for retrofitting in training, conference, classrooms, offices and the home
- Acoustic warning every 5 min. above 1500 ppm (can be deactivated)
- Self-calibrating (to fresh air and air pressure/altitude)
- Indicator with 3 LED's (green, amber, red)
Green: < 1000 ppm (light 'ON' permanently, can be switched 'OFF')
Orange: 1000 ppm – 1500 ppm (light 'ON' permanently)
Red: > 1500 ppm (flashing)

It's a matter of quality: Air Control

In addition to managing light, some of our presence detectors also provide the capability of controlling heating, ventilation, air-conditioning in relation to whether or not persons are present. This makes a lot of sense from an energy point of view as it can save large quantities of it: If nobody's there, why keep the heating on all the time.

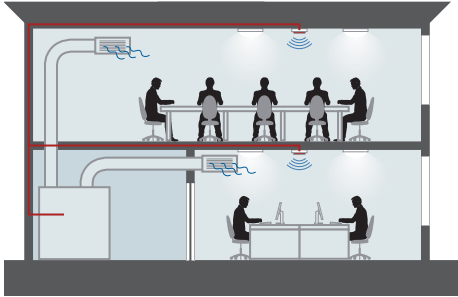
Yet, gradually, another aspect's creeping into the focus of discussion: air quality or the content of CO₂ in room air. Ventilation systems require energy and the air that's exchanged needs either heating or cooling. But the mere presence of persons is not enough for air to be exchanged through a ventilation system or automatically controlled window. What's important is the quality of air.

People inhale O₂ and exhale CO₂. This is a situation everyone's familiar with: as the meeting wears on, concentration lapses and, at some point everybody's tired, and later on people start to get a headache. The reason for this is the content of CO₂ in room air. Unfortunately, this is something people only notice when it's far too late to remedy the situation and actively provide ventilation. This is where our Air Control sensor comes in - because it measures the amount of CO₂ that's present in room air.

CO ₂ meas. range	Controls
400 – 2000 ppm	

CO₂ measurement range
400 – 2000 ppm
with an accuracy
of +/- 150 ppm

The LED traffic-light logic indicates the quality of room air



A traffic-light system of LED's indicates air quality to persons present in a room: green, amber and red. On red, a short acoustic warning signal additionally warns every 5 minutes.

The product also provides a floating switching output for connecting an automatic ventilation system. Ventilation is switched on in the amber range and only switches off again when the light switches to green. This new system can be used for controlling ventilation systems extremely efficiently, optimising the use of energy.

But the Air Control sensor without automatic ventilation is also an extremely recommendable option in meeting rooms, training rooms, conference rooms etc. for improving concentration and performance.

The green LED and acoustic warning signal can be deactivated by DIP switch. This also makes the system ideal for use in bedrooms and hotel rooms. The Air Control sensor is available as a surface-mounting and concealed version.



AC PRO Signal

EAN	AC PRO Signal UP (surface-mounting) 4007841 592608 AC PRO Signal AP (concealed) 4007841 592707
Dimensions (WxHxD)	AC PRO Signal UP 120 x 120 x 53 mm AC PRO Signal AP 120 x 120 x 49 mm
Voltage	230 VAC, electrically isolated power supply unit
CO ₂ measurement range	400 – 2000 ppm
CO ₂ accuracy	5% of measurement reading ± 150ppm (at 25°C and 1013 hPa)
Indicated by LED	Green: up to 1000 ppm (light 'ON' permanently, can be switched 'OFF') Amber: from 1000 ppm CO ₂ to 1500 ppm CO ₂ , (light permanently 'ON') Red: over 1500 ppm CO ₂ (flashing) Acoustic warning signal: every 5 min. above 1500 ppm CO ₂ , can be switched 'OFF'
Temperature dependence of CO ₂	< 5 ppm per °C
Temperature (storage)	- 40°C to + 70°C
Relay (function)	Relay ON from 1200ppm Relay OFF from 800ppm (with falling CO ₂ concentration)
Response time (T90)	5 min
Signal output	HVAC equipment connected by means of floating base-isolated output; 230 W max.
Housing	Standardised concealed box
IP rating	IP 20 (shock hazard protection for indoors)
Protection class	II

Motion Detectors

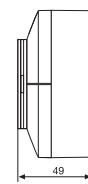
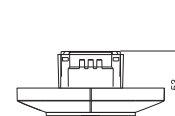
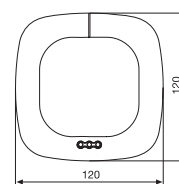
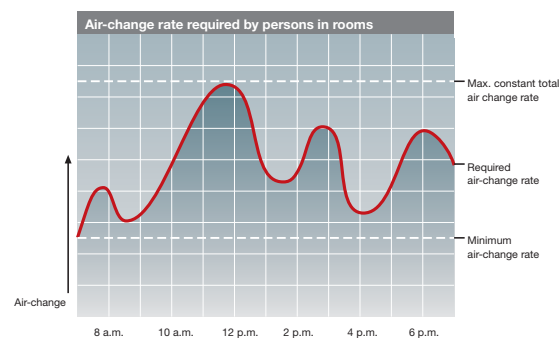
Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service



FUNCTIONAL
30 month
WARRANTY

STEINEL
German
Quality



LuxMaster Presence Detectors



LuxMaster – Classic Lighting Managers

Lighting conditions tailored to requirements, at all times and to a system: LuxMaster takes care of lighting management for larger-type rooms. The multisensor system creates optimum lighting situations. This enhances a sense of well-being, boosts productivity and brings down energy costs. Three interconnected pyro-detectors register the presence of persons. Geared to the light sensitivity of the human eye, a light sensor continually measures the ambient light level and co-ordinates it with the brightness setting. LuxMaster uses this as the basis for calculating the lighting required and the intensity of light from the connected light sources. Providing 1320 switching zones for high detection accuracy and a reach of 12 m, LuxMaster is the ideal manager for a whole host of rooms. Conveniently operated by remote control, it guarantees optimised lighting conditions.

Benefits

- 1320 switching zones
- Generous reach of up to 12 m
- Very high switching capacity
- Automatically switches light 'ON' and 'OFF' in relation to presence and ambient light
- Integrated brightness control for a constant level of light (BLS D, BLS DF)
- High energy savings of between 40 % and 70 %
- Controls fluorescent tubes, halogen lamps and filament bulbs without a problem
- Fast installation
- Can be remotely controlled (BLS DF)

Motion Detectors

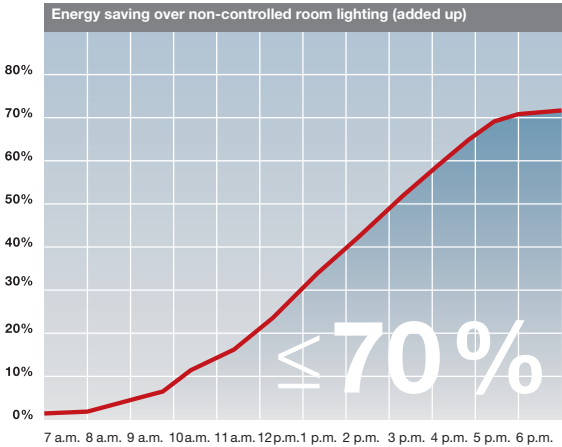
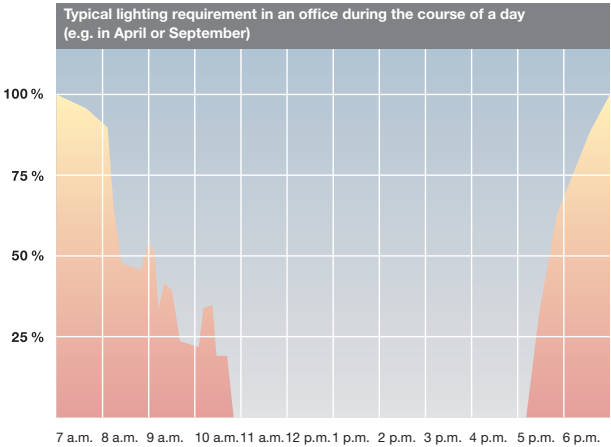
Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service



Presence Detectors



BLS

- Perceives persons and ambient brightness
- Activates light sources when needed

BLS D

- Integrated dimmer function
- Adapts light intensity to ambient brightness
- Activates light sources when needed

BLS DF

- Perceives persons and ambient brightness
- Integrated dimmer function
- Adapts light intensity to ambient brightness
- Activates light sources when needed
- Controls light intensity, 'ON'/'OFF' by remote control

BLS T

- Semi-automatic presence detector
- 'ON' manually
- 'OFF' automatically or manually

After you: Office lighting that falls in with your wishes

LuxMaster BLS is particularly recommendable for rooms that are only used for short periods. It switches light 'ON' and 'OFF' in relation to the presence of persons and ambient brightness.

LuxMaster BLS D is suitable in particular for all rooms requiring constant, even lighting that's pleasant to work in. It features an additional dimming function. This automatically increases or reduces light output in relation to ambient brightness.

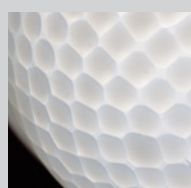
LuxMaster BLS DF is the all-in system. Ideal for use in large rooms. Using the remote control, light cannot only be switched 'ON' and 'OFF' but also lowered for slide shows or projector presentations.

LuxMaster BLS T is a semi-automatic presence detector providing a high level of energy efficiency. You can actively switch light 'ON' and 'OFF' while the presence detector itself automatically switches light 'OFF' as soon as it's no longer needed.

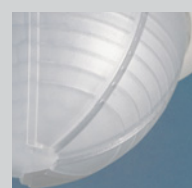
Detection zone



Reach: 12 m
Max. angle of coverage: 360° by means of 3 pyro-sensors; light sensor measures ambient brightness

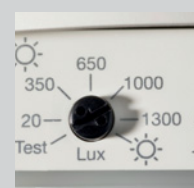


Multi-lens: divides detection zone into 11 levels and 1,320 switching zones

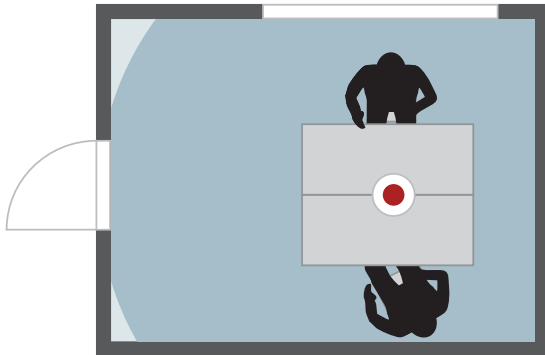


Shrouds: limit the angle of coverage to suit requirements

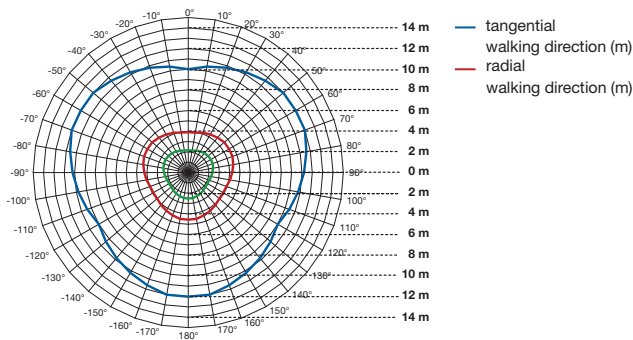
Setting capabilities



Brightness switching threshold: defines level at which light switches 'OFF'; test function for adjusting the detection zone



tangential radial presence



LuxMaster BLS/D/DF/T detection zone, mounted at a height of 2.50 m

Distance from sensor	Minimum distance moved
1 m	8 cm
2 m	17 cm
3 m	26 cm
4 m	34 cm
5 m	43 cm
6 m	52 cm
8 m	69 cm
10 m	86 cm
12 m	103 cm



LuxMaster, BLS, BLS D, BLS DF, BLS T

EAN	BLS white 4007841 720414 BLS D white 4007841 720513 BLS DF white 4007841 720612 BLS T white 4007841 720315
Dimensions (WxHxD)	120 x 120 x 66 mm
Output	- 2000 W max., VDE-tested (resistive load, e.g. filament bulb), - 1000 W max. (low-voltage halogen) - 1000 W max., VDE-tested (fluorescent lamps with conventional ballasts, $\cos \phi = 0.5$) - max. number of electronic ballasts: 16 x (1 x 36 W) or 12 x (2 x 36 W) or 12 x (1 x 58 W) or 8 x (2 x 58 W) A relay or contactor must be provided on the line side for high switching capacities
Voltage	230 – 240 V/50 Hz
Detection angle	360° with 180° angle of aperture
Recommended installation height	2.5 m – 3 m ceiling height
Max. reach	12 m in each direction high-resolution close-up range: 4 m radius (person seated) reliable long-distance range: 12 m radius (person walking)
Sensor system	11 detection levels, 1320 switching zones
Switching threshold or constant light level	BLS/BLS T: 20 – 1300 lux, ∞ / daylight BLS D / BLS DF: 100 – 1300 lux, ∞ / daylight
Switching 'ON'	BLS T: manually by NC button BLS/BLS D/ BLS DF: in response to detecting movement
Switch-'OFF' delay	4 min. – 30 min., pulse mode (approx. 2 sec.), Long-term mode (approx. 2 h)
IP rating	IP 20
Protection class	II
Temperature range	-20° to +50° C
Control signal	BLS D / DF: 1 – 10 V (50 electronic ballasts max.)
Accessories	- Hand-held transmitter for setting switching threshold (for BLS DF) EAN 4007841 720711

FUNCTIONAL 30 month WARRANTY

STEINEL German Quality



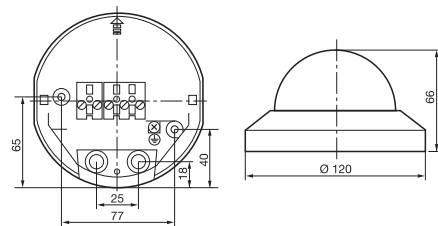
Accessories



Automatic switch 'OFF':
Margin of 4-30 minutes
plus special 2-h mode;
individually selectable
adjustment at potentiometer



Remote control:
'ON'/'OFF': adjusts light
level as required



Motion Detectors

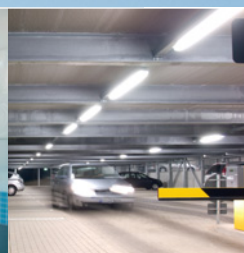
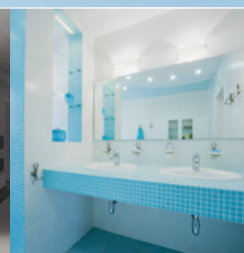
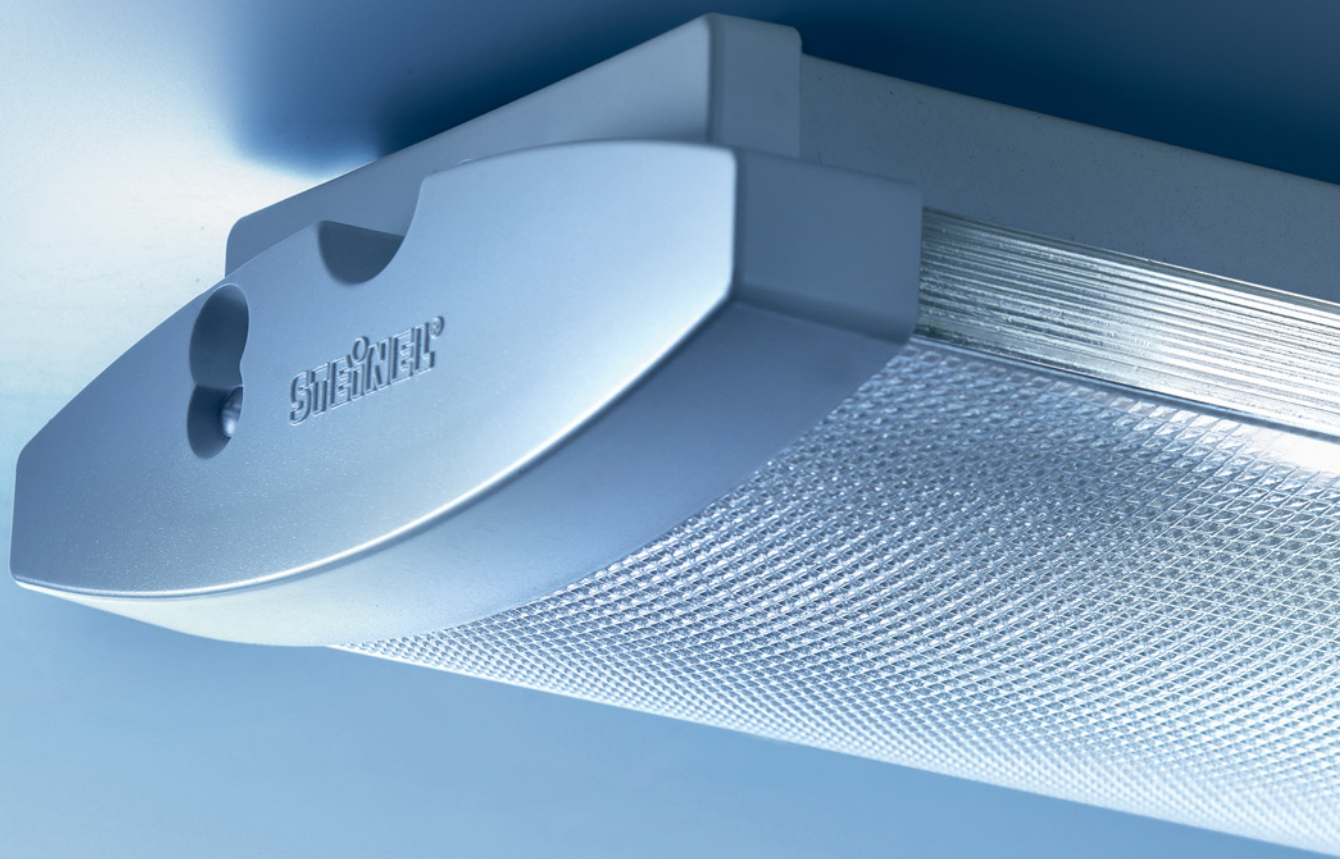
Presence Detectors

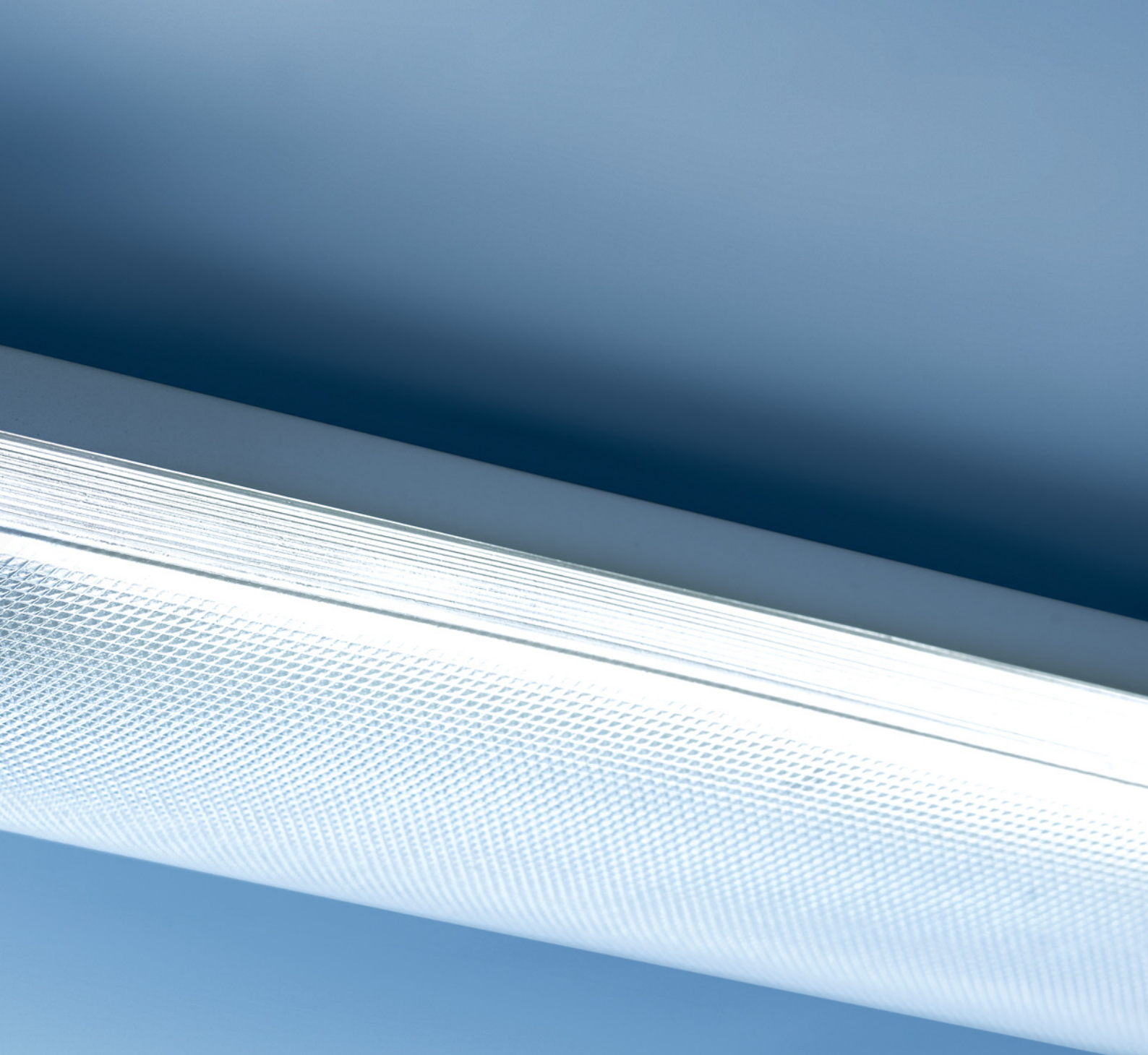
SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service
























SensorLights

Our HF-SensorLights for indoors know how to save power.
They supply rooms with light only when it's needed.
Intelligently – and economically.



Overview

HF-SensorLights for Indoors

	HF-SensorLights RS PRO										Motion Detectors
											
	RS PRO 500	RS PRO 1000	RS PRO 2000	RS PRO 5000	RS PRO 5002 LED	RS PRO 5200	RS PRO 5100	RS PRO 5500	RS PRO DL 100	RS PRO LED S1	
impact-resistant	●	●	●	●	●	●	●	●		●	
Glass shade	●	●	●							●	
IP rating	IP 44	IP 44	IP 44	IP 65	IP 65	IP 65	IP 65	IP 21/IP 44 ²	IP 20	IP 20	
Lamp	2 x 13 W TC-DEL G 24-Q1 ^{*1}	2 x 18 W TC-DEL G 24-Q2 ^{*1}	2 x 26 W TC-DEL G 24-Q3 ^{*1}	2 x 28 W T5 ^{*1}	2 x 28 W T5/LED ^{*1}	2 x 54 W T5 ^{*1}	1 x 54 W T5 ^{*1}	2 x 28 W T5 ^{*1}	2 x 18 W TC-DEL G 24-Q2 ^{*1}	16 W LED	
Sensor	●	●	●	●	●	●	●	●	●	●	
Slave	●	●	●	●	●	●	●	●	●		
Designer-style rings	●	●	●								
Mounting adapter	●	●	●								
MLED1 module	●	●	●								
Battery-powered MLED1 module	●	●	●								
Emergency lighting module	●	●	●								
Emergency light shunt				●	●	●	●	●			
LED orientation light					●						
Wirelessly interconnectable		●	●							●	
Remote control RC 2				●	●	●	●	●	●		
Page	124	124	124	132	132	132	132	136	138	142	
	HF-SensorLights										SensorLights
											
	RS 50	BRS 81	BRS 82	BRS 83	BRS 86	BRS 87	BRS 80 P	BRS 83 P	BRS 85 P		
impact-resistant	●			●				●			
Glass shade		●	●		●	●	●		●		
IP rating	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44		
Lamp	1 x 13 W TC-DEL G 24-Q1 ^{*1}	1 x 24 W T5 ^{*1}	1 x 24 W T5 ^{*1}	1 x 24 W T5 ^{*1}	1 x 24 W TC-L ^{*1}	1 x 24 W TC-L ^{*1}	1 x 24 W T5 ^{*1}	1 x 24 W T5 ^{*1}	1 x 24 W TC-L ^{*1}		
Sensor	●	●	●	●	●	●	●	●	●		
Close-range sensor		●	●	●	●	●	●	●	●		
Designer rings	●										
Socket							●	●	●		
Page	146	148	148	148	148	148	148	148	148		
^{*1} It is only permissible to use the lamps specified. ^{*2} IP 44 only when ceiling-mounted											

HF-SensorLights for Indoors

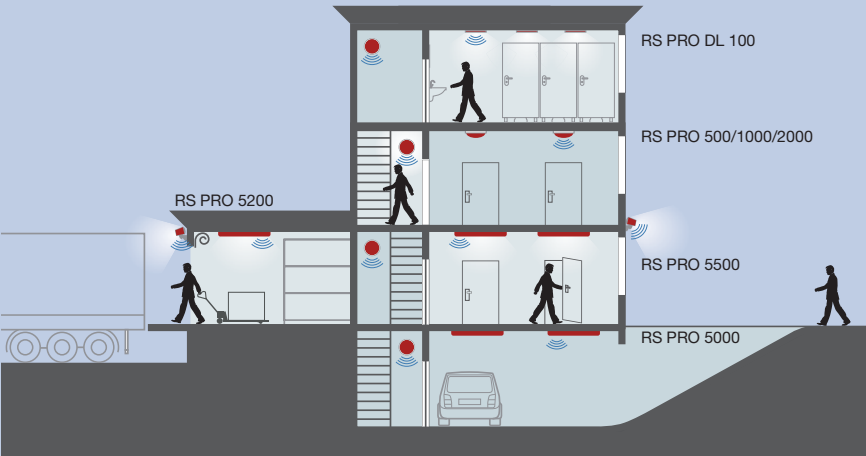


HF-SensorLights from STEINEL Professional

**Our lights have a mind of their own.
They demonstrate the efficiency of
decentralised lighting control in practice:
economically, independently and systematically.**

The HF-SensorLights are designed for practical indoor convenience: stairwells, corridors, WCs, bathrooms etc. The range combines the latest advances made in our cutting-edge sensor technology with practical design. Our line-up features round lights, downlights as well as linear fluorescent luminaires in a choice of sizes and ratings.

All working in the same way, the products belonging to the RS PRO family also share the same design and operating concept. Although each light can be used on its own, they are all easily interconnected – wirelessly or by cable. Particularly economical: at last you now can put an end to additional and unnecessary connecting cables, switches and separate detectors. Yet our intelligent lighting systems are just as quick to install as conventional lights. Chip-controlled electronic ballasts and the use of modern lamps throughout not only enhance service life and lighting quality but also reduce costs and effort.



Benefits of RS PRO

- Indoors**
- Decentralised lighting management
 - Highly advanced HF-technology
 - Uniform design
 - Precision detection and reliable operation
 - Uniform operating concept
 - Uniform working principle
 - High level of economy from efficient lighting control
 - No need for switches, connecting cables, additional detectors
 - Reliable all-round detection regardless of temperature and direction of movement
 - Practical interconnection by wireless link or cable
 - Fast installation
 - sensor + light = 1 connection

The example makes it clear: light is only switched 'ON' and 'OFF' again in response to movement. All other areas stay unlit.

RS PRO
SYSTEM

Motion Detectors

Presence Detectors

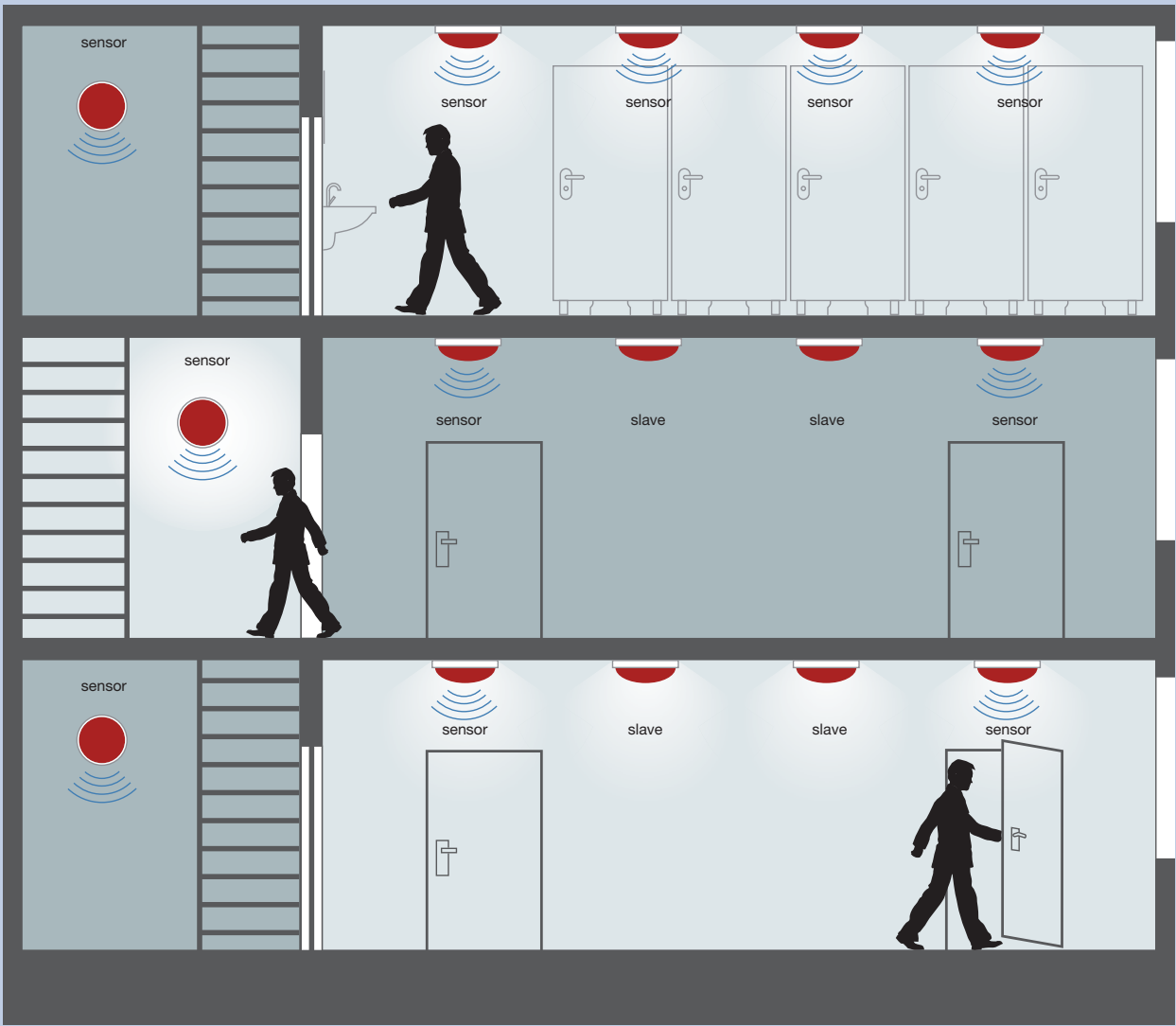
SensorLights

Sensor-Switched
Floodlights

Wireless Sensor Systems

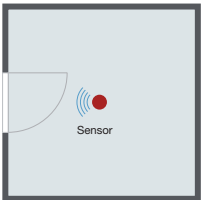
Support, Service

HF-SensorLights for Indoors

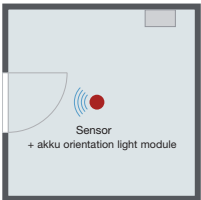


Extreme versatility: RS PRO SYSTEM

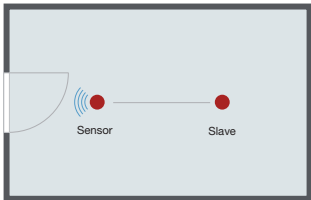
The lights from the RS PRO series permit decentralised intelligent lighting control with maximum energy efficiency. Each light can control itself to come 'ON' and go out as and when required. The RS PRO 500,1000 and 2000 can be interconnected with and without sensor. The RS PRO 1000 and 2000 can also be interconnected bidirectionally without cables using wireless modules.



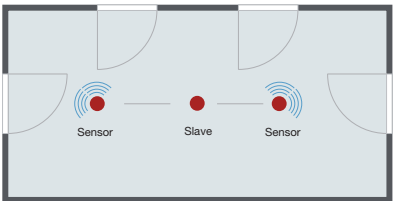
e.g. in the basement, workshop, boiler room, garage



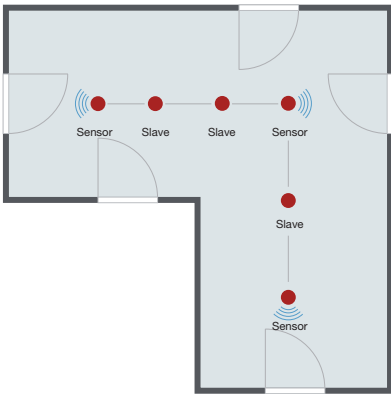
Ideal for use as a single light in basement rooms with fuse box; light when a fuse has tripped or during a power cut



Both lights are activated in response to movement detected by the master unit with integrated sensor.



With optional orientation light for basic illumination in a corridor



Whether independent single SensorLights or systems interconnected by wireless link or by cable – all combinations are possible.

— = interconnected by wireless link or cable

RS PRO
S Y S T E M

Motion Detectors

Presence Detectors

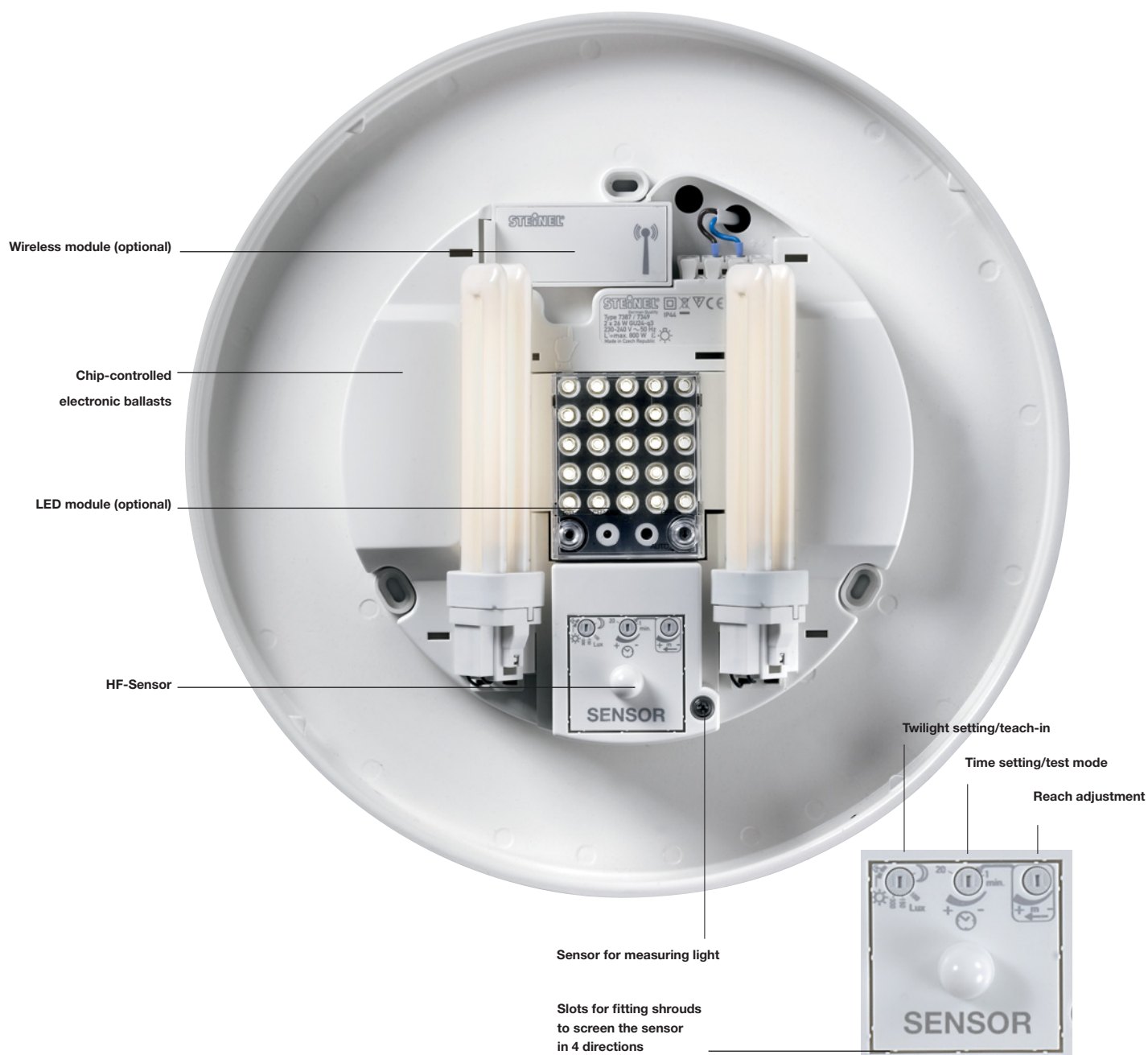
SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

HF-SensorLights for Indoors



RS PRO SYSTEM

High-frequency technology:
RS PRO means hi-tech

Each light features state-of-the-art high-frequency sensors. This guarantees the last word in detection accuracy. The sensors do their work regardless of ambient temperature or direction of movement. They provide greater precision, respond more quickly and reach further. Also giving you switching performance that's virtually instant, they are integrated more or less out of sight.

Technical benefits: chip-controlled electronic ballasts

Compared with other control gears, chip-controlled electronic ballasts provide an obvious advantage: less wasted energy, more light for power input from high-frequency operation, no starting flicker, no hum and a pre-heating system that's particularly kind on lamps. We have developed electronic ballasts for use in our RS PRO lights that perfectly combine rapid start-up and long lamp life.

Benefits to professional users: Infineon chip for sensor mode

We have coupled our sensor expertise with a high-quality chip from Infineon designed specifically for optimising sensor operation. Our chip-controlled electronic ballasts are fast starters (less than 0.8 sec. compared with 1.6 or even 1.9 sec.). This means you are provided with light as soon as you enter a room. And they are also designed for extra-long lamp life even if light is frequently switched 'ON' and 'OFF'. Effects disturbing the sensor are reduced to a minimum.

Benefits of chip-controlled
electronic ballasts
from STEINEL Professional

- Extra-gentle pre-heating
- No starting flicker or hum
- Low losses in the ballast
- High-quality chip from Infineon designed specifically for optimising sensor operation.
- Rapid start-up (< 0.8 sec. compared with 1.6 – 1.9 sec.)
- Extra-long lamp life
- More light for the same power output

Motion Detectors

Presence Detectors

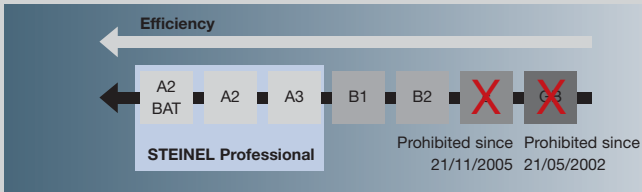
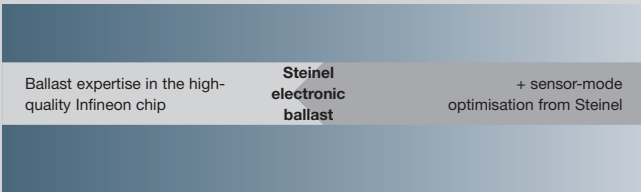
SensorLights

Sensor-Switched
Floodlights

Wireless Sensor Systems

The benefits from Steinel electronic ballasts are the result of:

European energy efficiency index (EEI) for ballasts



Support, Service

RS PRO 500

HF-SensorLights for Indoors

Small but wow: the RS PRO DL 500

Although the models from the RS PRO series come with different talents, they all operate in the same way. The RS PRO 500 works at 2 x 13 watts and with one electronic ballast. Our SensorLights are designed to provide light when they need to, either on their own or also working together in interconnected systems. Interconnect them by cable – this can also be done with the slave options from RS PRO series without sensor.

Capability of connecting additional loads of no more than 800 watts (e.g. bathroom/WC extractor fan) or lights. The aluminium base of these lights is particularly durable. Shades are available in glass or impact-resistant plastic.

Features

Low-energy lamp

- RS PRO 500:
2 x 13 W/TC-DEL G 24-Q1
- 1 electronic ballast

Sensor

- HF-sensor 360°, 1– 8 m all round
- Reach can be set as required
- Precision adjustment of light 'ON' time and twilight threshold

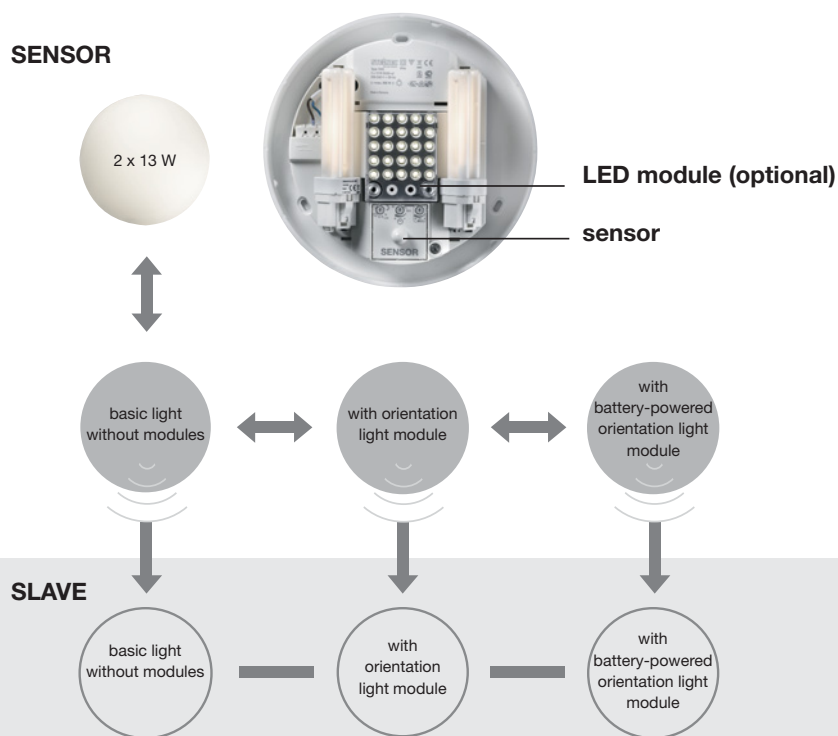
Accessories (optional)

LED module

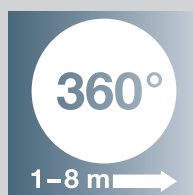
- 25 LED's
- Mains-operated or - when battery-powered - mains-independent orientation light

Emergency light

- Connection to an emergency power system
- 3 W power-LED



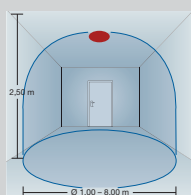
Detection zone



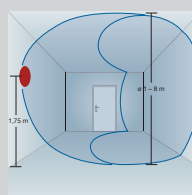
Max. reach: 8 m
Angle of coverage: 360°



Our high-frequency sensors operate at 5.8 GHz and 1 mW.



Reach setting
1 – 8 m all round
when mounted to ceiling.



Reach setting
1 – 8 m all round
when mounted to wall.

Models



RS PRO 500 sensor:
2 x 13 W, 1 electronic ballast

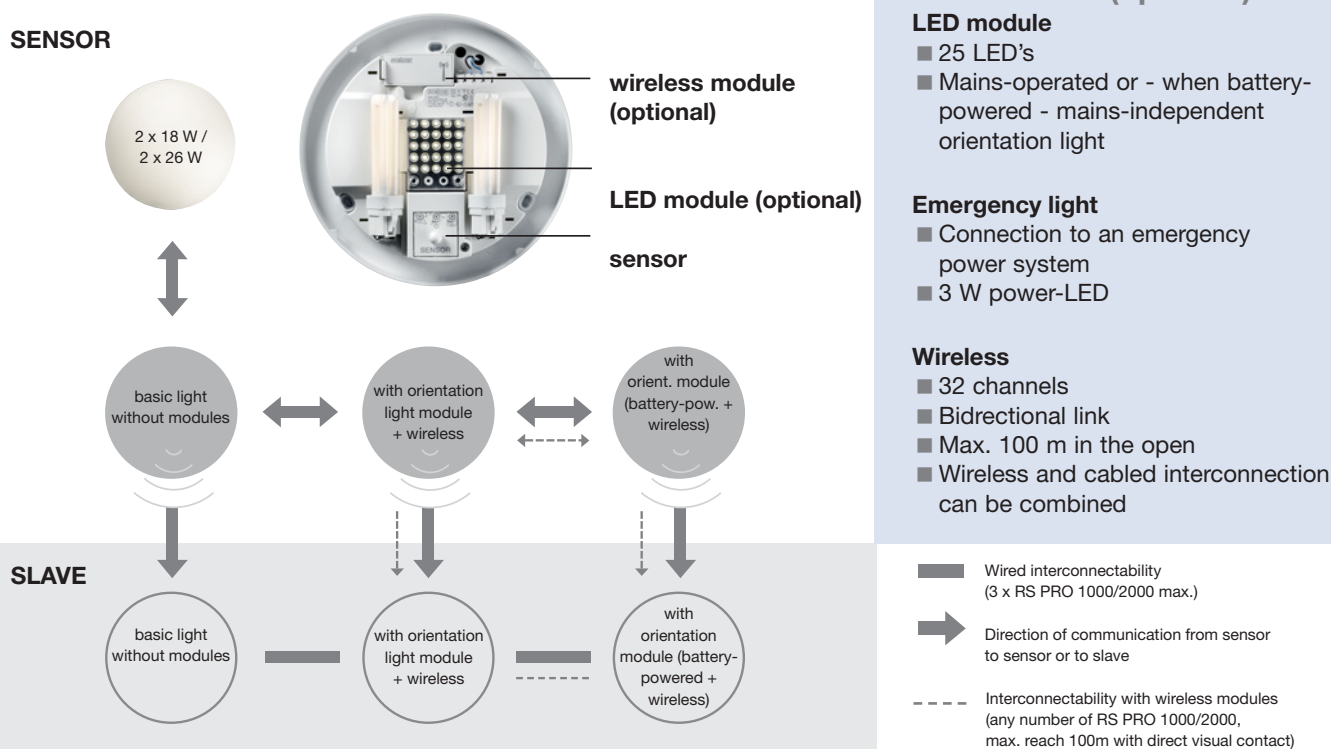


RS PRO 500 slave:
2 x 13 W, 1 electronic ballast

HF-SensorLights for Indoors

Grown up and powerful: RS PRO 1000 and RS PRO 2000

The RS PRO 1000 works with 2 x 18 W low-energy lamps and 2 electronic ballasts. The 2000 version is rated for a powerful 2 x 26 W/ TC-DEL G 24-Q3 as well as a separate electronic ballast for each of the two lamps. Both lights from the RS PRO family can be interconnected bidirectionally by wireless link. To do this, wireless modules are plugged directly into the lights. No fewer than 32 addresses are also available for creating complex interconnected groups. Wireless transmission is fast and extremely reliable. The aluminium base of these lights is particularly durable. Shades are available in glass or impact-resistant plastic. Needless to say, interconnection is also possible by cable. Additional loads of up to 800 watts (e.g. bathroom/ WC extractor fan) or lights can be connected.



Features

Low-energy lamp

- RS PRO 1000: 2 x 18 W/TC-DEL G 24-Q2
- RS PRO 2000: 2 x 26 W/TC-DEL G 24-Q3
- 2 separate electronic ballasts, one for each lamp
- Can also be operated with just one lamp

Sensor

- HF-sensor 360°, 1–8 m all round
- Reach can be set as required
- Precision adjustment of light 'ON' time and twilight threshold

Accessories (optional)

LED module

- 25 LED's
- Mains-operated or - when battery-powered - mains-independent orientation light

Emergency light

- Connection to an emergency power system
- 3 W power-LED

Wireless

- 32 channels
- Bidirectional link
- Max. 100 m in the open
- Wireless and cabled interconnection can be combined



RS PRO 1000 sensor:
2 x 18 W,
2 electronic ballasts

RS PRO 1000 slave:
2 x 18 W,
2 electronic ballasts

RS PRO 2000 sensor:
2 x 26 W,
2 electronic ballasts

RS PRO 2000 slave:
2 x 26 W,
2 electronic ballasts

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

RS PRO 500, 1000, 2000

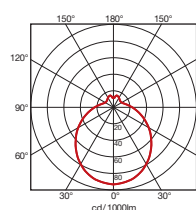
HF-SensorLights for Indoors



RS PRO SYSTEM

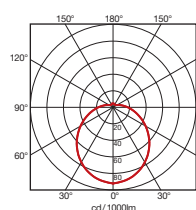
Light distribution curves for RS PRO 500/1000/2000

RS PRO 500



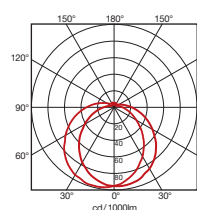
2 x 13 W

RS PRO 1000

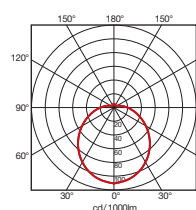


2 x 18 W

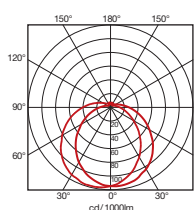
RS PRO 2000



1 x 18 W

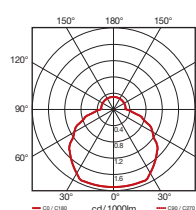


2 x 26 W

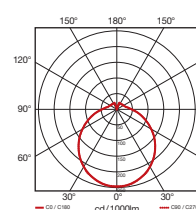


1 x 26 W

RS PRO 500, 1000, 2000

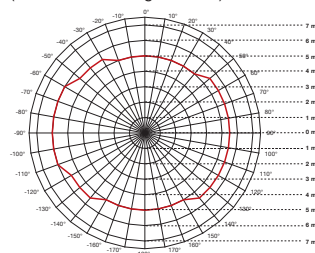


Module MLED1



Emergency lighting module

Detection zone at a mounting height of 2.8 m
(red = radial walking direction)



Accessories



MLED 1 module:
Orientation light; 25 LED's;
optional



Module MLED 1A:
Orientation light for battery-
powered operation, inde-
pendently of mains power;
optional



Emergency lighting module:
Connection to emergency
power system, optionally with
3 W LED



Wireless MF 1 module:
Interconnection by bidirec-
tional wireless link; optional
(not for RS PRO 500)

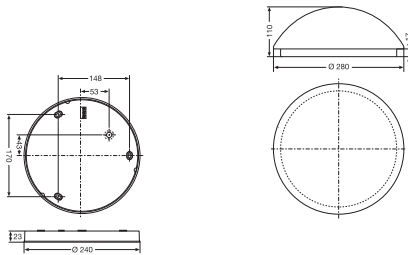


Designer rings in white and
silver, optional

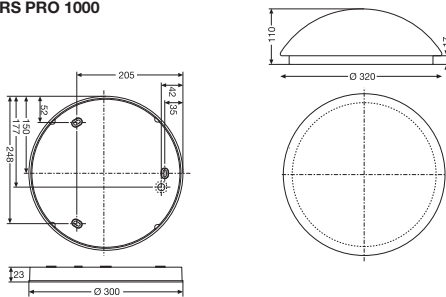


Mounting adapter for
recessed box, hole
spacing 74 - 82 mm,
optional

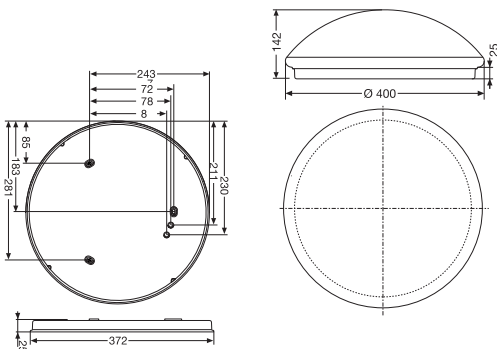
RS PRO 500



RS PRO 1000



RS PRO 2000



RS PRO 500/1000/2000

EAN	impact-resistant plastic shades	
	RS PRO 500 sensor, white, 4007841 732615	
Dimensions (WxHxD)	RS PRO 500 slave, white, 4007841 732714	
	RS PRO 1000 sensor, white, 4007841 736514	
	RS PRO 1000 slave, white, 4007841 736613	
	RS PRO 2000 sensor, white, 4007841 734916	
	RS PRO 2000 slave, white, 4007841 735418	
	also in glass version	
	RS PRO 500 G sensor, white, 4007841 000240	
	RS PRO 500 G slave, white, 4007841 000257	
	RS PRO 1000 G sensor, white, 4007841 736811	
	RS PRO 1000 G slave, white, 4007841 736910	
Output	RS PRO 500: 2 x 13 W / TC-DEL G 24-Q1 *1 (1 electr. ball.)	
	RS PRO 1000: 2 x 18 W / TC-DEL G 24-Q2 *1 (2 electr. ball.)	
Additional switching capacity	RS PRO 500: no more than 4 additional lights	
	RS PRO 1000/2000: no more than 2 additional lights	
Voltage	230 – 240 V/50 Hz	
HF-System	5.8 GHz (responds irrespective of temperature to the tiniest of movements) *2	
Detection angle	360° with 160° angle of aperture *2	
Transmitter power	approx. 1 mW *2	
Reach	1 – 8 m all round, infinitely variable, in 4 directions *2	
Max. area covered	approx. 50 m² *2	
Time setting	1 min. – 20 min. + install mode *2	
Twilight setting	2 – 2000 lux + teach-in mode *2	
IP rating	IP 44	
Protection class	II	
Temperature range	-10° to +50° C	
Accessories	<ul style="list-style-type: none"> - Mounting adapter for recessed box, hole spacing 74 – 82 EAN 4007841738662 - MLED1 orientation light module with 25 LED's EAN 4007841732813 - Orientation light module (battery-powered), nickel-metal hybrid MLED1A for cordless orientation light EAN 4007841732912 - Emergency light module with 1 LED for connection to the emergency power system EAN 4007841002626 - RS PRO 1000/2000 only: Wireless module MF1 for interconnecting several lights, 868 MHz FM modulation, redundant information transmission, 100 m max. EAN 4007841736712 - Designer rings <ul style="list-style-type: none"> RS PRO 500 white 4007841 000288 RS PRO 500 silver 4007841 000295 RS PRO 1000 white 4007841 000301 RS PRO 1000 silver 4007841 000318 RS PRO 2000 white 4007841 000325 RS PRO 2000 silver 4007841 000332 	

*1 It is only permissible to use the lamps specified.
Lamp life is not affected by switching 'ON' and 'OFF'.

*2 For sensor-controlled version only.



RS PRO 2000

Accessories for RS PRO 500, 1000, 2000

HF-SensorLights for Indoors



MLED 1 module: Orientation light

EAN 4007841732813

- LED's for automatic orientation light

This module provides orientation light from LED's while the SensorLight is not detecting movement. This way, a room doesn't look completely dark from a distance. Orientation light only works when supplied with mains power. As soon as movement is detected, the module switches over to main light.

MLED 1A module Orientation light as battery-powered version

EAN 4007841732912

- LED's for automatic orientation light
- Automatic battery-powered operation in the event of mains power failure

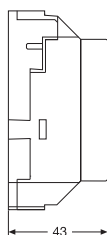
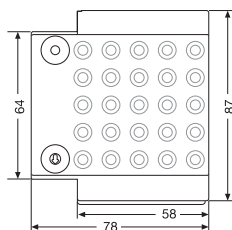
In the battery-powered version, the orientation light is charged from mains power and then operates in the same way as the MLED 1 version. What makes this light special: In the event of a power cut, the module automatically switches over to battery-powered operation. The LED's shine irrespectively of ambient brightness and help to show the way.

Emergency lighting module

EAN 4007841002626

- Connection to the emergency power system
- One 3 W power-LED
- For plugging into the light

The emergency light module provides light in the event of a mains power supply failure or fault (230 V). It is equipped with one power-LED for bright light when it's really needed.





Motion Detectors

Presence Detectors

Wireless module MF1

EAN 4007841736712

- Suitable for the RS PRO 1000/2000-series and sensIQ
- Convenient actuation of receivers (indoors/outdoors)
- Bidirectional (transmitter/ receiver)

Save yourself the need for permanently installed switching cables. Wireless modules provide the capability of interconnecting sensor and/or slave lights from the RS PRO series by bidirectional wireless link to create switching groups. This also applies to the sensIQ motion detectors.

Mounting adapter (base)

EAN 4007841738662

- For recessed boxes
- Hole spacing 74 – 82 mm

Mounting adapter for positioning the light neatly on the recessed box.

Designer rings

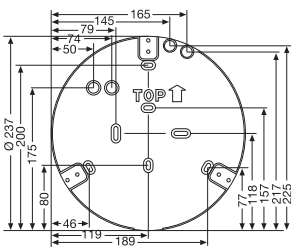
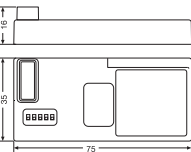
- For matching to designer-style properties and rooms
- Accessory for existing RS PRO 500, 1000, 2000 lights
- Straightforward installation

The designer rings add a touch of individuality to the system. You can use the high-quality plastic rings to vary the rational design of the RS PRO lights and match them with flexibility to existing room situations. They are available either in white or silver.

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems



EAN	RS PRO 500 white RS PRO 500 silver RS PRO 1000 white RS PRO 1000 silver RS PRO 2000 white RS PRO 2000 silver	4007841 000288 4007841 000295 4007841 000301 4007841 000318 4007841 000325 4007841 000332
Dimensions (WxHxD)	RS PRO 500: RS PRO 1000: RS PRO 2000:	310 x 310 x 30 mm 358 x 358 x 33 mm 437 x 437 x 33 mm

Support, Service

HF-SensorLights for Indoors

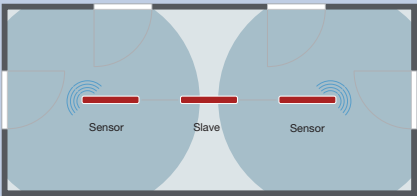


RS PRO
S Y S T E M

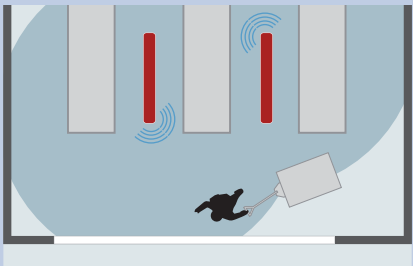
Systematic versatility

The range of linear fluorescent luminaires provides a wide choice of options based on a uniform concept. We have developed various models geared to the particular lighting task they are required to perform. Our high-frequency sensors are particularly suitable for concealed, trouble-free use. They are discreetly integrated in the luminaire and are not irritated by adverse temperature or climatic conditions either (e.g. in open or closed multi-storey car parks).

A wealth of intelligent features complements this range. Chip-controlled electronic ballasts, low-energy lamps and the efficient use of LED orientation lighting provide clever extras that meet all professional needs. The necessary settings are not made directly in the lights themselves but conveniently and efficiently by remote control. Capable of being interconnected with unique ease, these models can be used for a broad range of applications. Modern lighting control doesn't get more efficient than this.

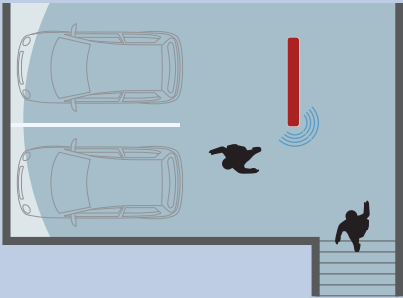


Motion Detectors



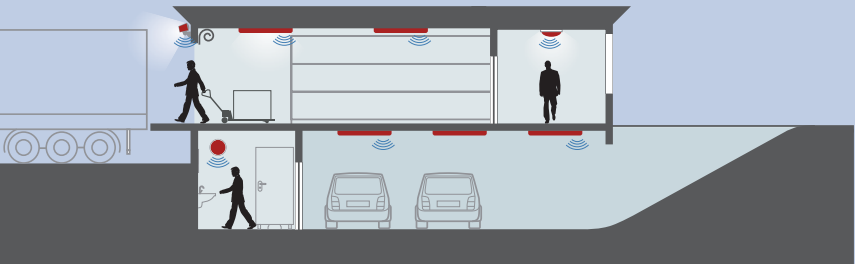
Presence Detectors

Planning example for a warehouse



SensorLights

Planning example for a multi-storey car park



Sensor-Switched Floodlights

Wireless Sensor Systems

Planning example for an underground car park

Support, Service

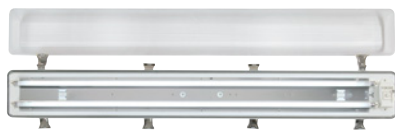
HF-SensorLights for Indoors

RS PRO 5000, 5002 LED, 5100, 5200

High-frequency linear fluorescent luminaires are the ideal choice for the sensor-controlled illumination of large spaces or long aisles. They immediately come 'ON' the moment movement is detected. Whether in multi-storey car parks, underground car parks, basements or storage rooms, temperature has no relevance whatsoever for HF-sensors. These are the ideal places for using reliable high-frequency sensors that are not affected by external influences. The high-resolution sensors are integrated directly in the linear fluorescent luminaires.

The different models from the RS PRO 5000-series are based on one and the same principle. They can be interconnected to create groups. The RS PRO 5002 provides the option of basic LED illumination in the space it serves.

SENSOR



SensorLight



SensorLight



SLAVE



Slave luminaire



Slave luminaire with LED



Wired interconnectability
(3 x RS PRO 5000/5002/5200 max.,
5 x RS PRO 5100 max.)

Direction of communication from sensor
to sensor or to slave

RS PRO
S Y S T E M



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched
Floodlights

Wireless Sensor Systems

Light 'ON' in response to movement
(Cars or Persons)

Basic night-time illumination with manual override
wiring for individual luminaires

Basic night-time illumination from LED's
(RS PRO 5002)

Support, Service

RS PRO 5000, 5002 LED, 5100, 5200

HF-SensorLights for Indoors



RS PRO 5000
RS PRO 5002 LED
RS PRO 5200

RS PRO SYSTEM

- Individual luminaires can be interconnected
- Capability of connecting additional loads
- LED orientation light (RS PRO 5002) 6.7 W
- Slim-line, practical design
- Impact-resistant
- Includes 2 PG screw connections
- Can be remotely controlled
- Burn-in function for the fluorescent tubes (100 hours)

One system providing many solutions: the RS PRO 5000-Series

The 5000-Series offers four different lighting solutions. All of them can be selected individually to meet your needs exactly. And these models can also be quickly interconnected if you require all-inclusive systems with several switching groups. All models come with 360° HF-Sensors and any selectable reach setting of 1 – 8 metres all round. The diffusers are impact-resistant. The practical design is slim-line and robust.

The RS PRO 5000 and 5002 linear fluorescent luminaires are rated for 2 x 28 W T5 tubes and a separate electronic ballast for each of the two lamps. More light can be provided from the RS PRO 5200 with 2 x 54 W T5. The RS PRO 5100 works with 1 x 54 W T5. The RS PRO 5002 model is equipped with integrated power-LED's for orientation light. This way, large spaces are provided with basic illumination using minimal energy even before bright light is switched 'ON' in response to movement. The parameters for the sensor in all models can be set either manually at the potentiometers or conveniently and practically by remote control with the diffuser in place.

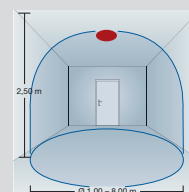
Detection zone



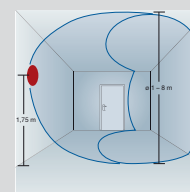
Max. reach: 8 m
Angle of coverage: 360°



Our high-frequency-sensors work at 5.8 GHz and 1 mW.



Reach setting 1 – 8 m all round when mounted to ceiling.

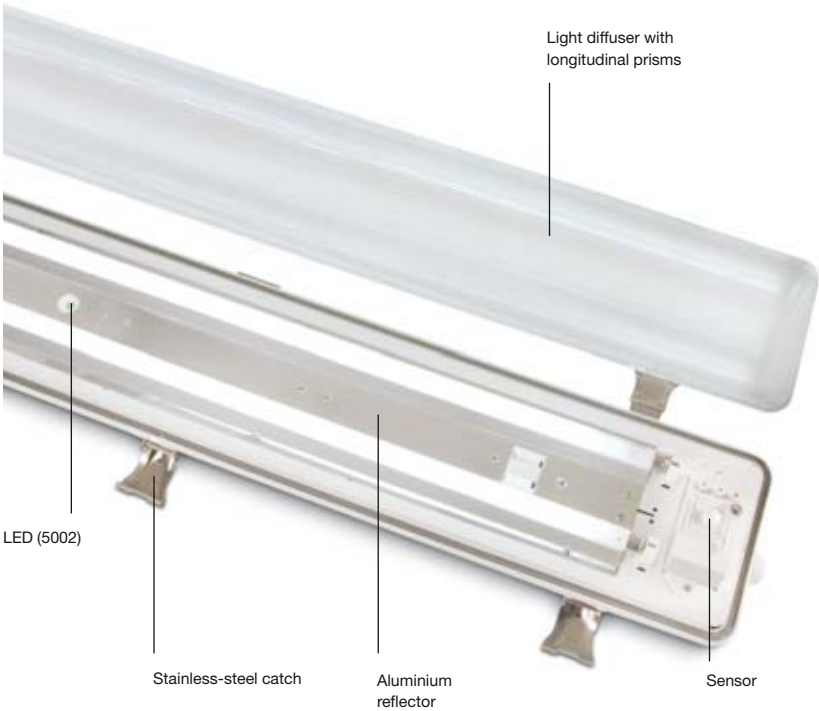


Reach setting 1 – 8 m all round when mounted to wall.



RS PRO 5100

Example: sensor



RS PRO slave version
without sensor

Features

Low-energy lamp

- only 2 x 28 W/T5 fluorescent tubes for RS PRO 5000, RS PRO 5002 LED
- only 2 x 54 W/T5 for RS PRO 5200
- only 1 x 54 W/T5 for RS PRO 5100
- Two separate chip-controlled electronic ballasts for two tubes (except RS PRO 5100)

Sensor

- HF-sensor 360°, 1– 8 m all round
- Reach can be set as required
- Precision adjustment of light 'ON' time and twilight threshold
- Parameters can be set by optional remote control

Reflector

- Extremely high level of efficiency from aluminium reflectors

Catch

- High-quality stainless steel clips

Light diffuser

- Polycarbonate
- Robust, practical, strong
- Longitudinal prisms for optimum illumination

Motion Detectors

Presence Detectors

SensorLights

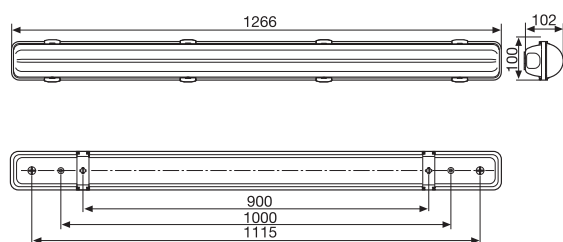
Sensor-Switched Floodlights

Wireless Sensor Systems

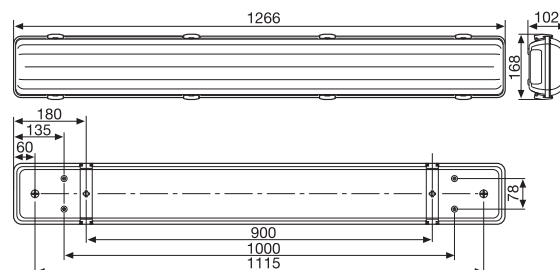
Support, Service

RS PRO 5000, 5002 LED, 5100, 5200

HF-SensorLights for Indoors

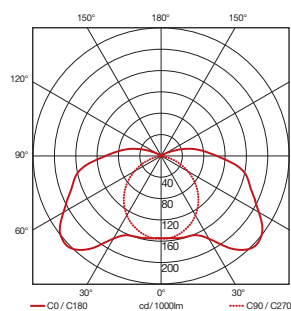


RS PRO 5100



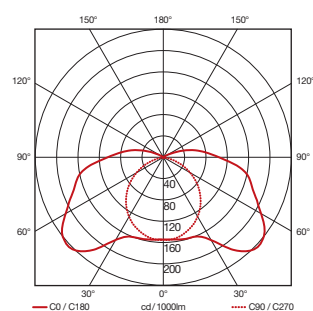
RS PRO 5000, RS PRO 5002 LED, RS PRO 5200

Light distribution curves for
RS PRO 5000



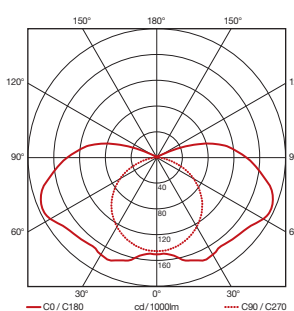
2 x 28 W ——— C0 / C180
..... C90 / C270

Light distribution curves
for RS PRO 5002 LED



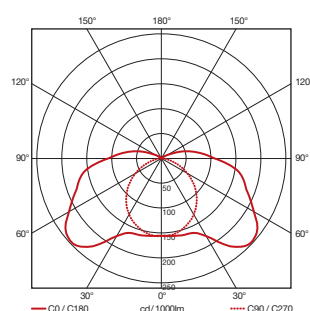
2 x 28 W ——— C0 / C180
..... C90 / C270

Light distribution curves
for RS PRO 5100



1 x 54 W ——— C0 / C180
..... C90 / C270

Light distribution curves
for RS PRO 5200



2 x 54 W ——— C0 / C180
..... C90 / C270

Accessories



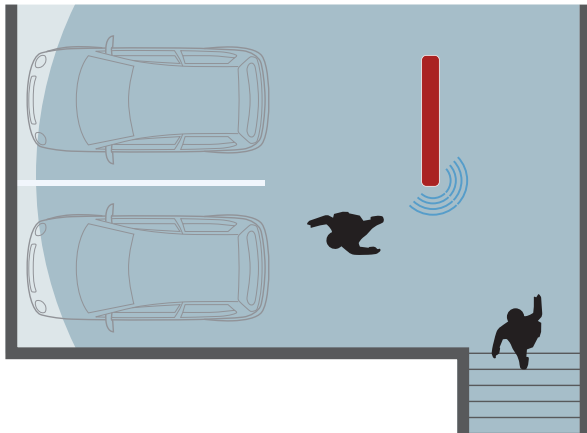
You will find further information
on operation at: www.steinel.de
For example applications, turn to p. 129



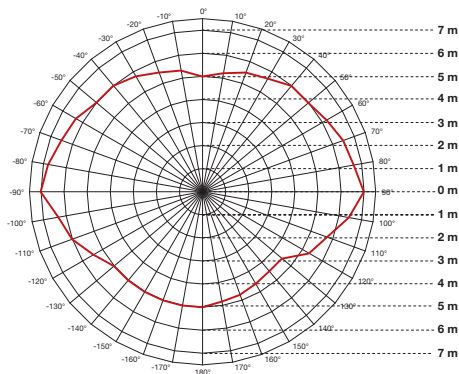
Remote control RC 2



Emergency light shunt
Switches over to emergency
power system if standard
connection fails



Detection zone at a mounting height of 2.8 m
(red = radial walking direction)



RS PRO 5000/5002 LED/5100/5200

EAN	RS PRO G 5000 sensor, white	EAN 4007841 738815
	RS PRO G 5000 slave, white	EAN 4007841 738914
	RS PRO G 5002 LED sensor, white	EAN 4007841 731915
	RS PRO 5002 LED slave, white	EAN 4007841 733810
	RS PRO 5100 sensor, white	EAN 4007841 749613
	RS PRO 5100 slave, white	EAN 4007841 749712
	RS PRO 5200 sensor, white	EAN 4007841 002664
	RS PRO 5200 slave, white	EAN 4007841 002671
Dimensions (WxHxD)	RS PRO 5000, 5002, 5200:	102 x 168 x 1266 mm
	RS PRO 5100:	102 x 100 x 1266 mm
Output	RS PRO 5000, 5002:	2 x 28 W / T5 *1 (2 electr. ballasts)
	RS PRO 5200:	2 x 54 W / T5 *1 (2 electr. ballasts)
	RS PRO 5100:	1 x 54 W / T5 *1 (1 electr. ballast)
Additional switching capacity	RS PRO 5000/5002/5200:	no more than 2 additional lights
	RS PRO 5100:	no more than 4 additional lights
Voltage	230 – 240 V/50 Hz	
HF-System	5.8 GHz (responds irrespective of temperature to the tiniest of movements) *2	
Detection angle	360° with 160° angle of aperture *2	
Transmitter power	approx. 1 mW *2	
Reach	1 – 8 m all round, infinitely variable, in 4 directions *2	
Max. area covered	approx. 50 m² *2	
Time setting	1 min. – 20 min. + install mode *2	
Twilight setting	2 – 2000 lux + teach-in mode *2	
IP rating	IP 65	
Protection class	I	
Temperature range	-10° to +50° C	
Accessories	- Remote control RC 2 EAN 4007841737818 - Emergency light shunt EAN 4007841002657	

*1 It is only permissible to use the lamps specified.
Lamp life is not affected by switching 'ON' and 'OFF'.
*2 For sensor-control version only.



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

RS PRO 5500

HF-SensorLights in Slim-line Design



RS PRO SYSTEM

- 2 x 28-W/T5 tubes
- Chip-controlled double electronic ballast
- Additional loads can be connected
- Can be interconnected by cable
- IK class 07 impact-resistant
- Includes 2 PG screw connections
- Can be remotely controlled
- Burn-in function for the fluorescent tubes (100 hours)

Slim and dynamic: the RS PRO 5500

The RS PRO 5500 is a veritable high-performance athlete: With lightning-fast reflexes and lean enclosure, the linear fluorescent luminaire instantly responds to movements and switches light 'ON'. It is ideal for corridors and passageways in commercial properties. Even after switching 'ON' and 'OFF' time and time again, it shines with endurance and long tube life. Developed in-house by STEINEL Professional, the chip-controlled double electronic ballast keeps strain on the tubes to a minimum. It is optimised for sensor-controlled operation. It also permits rapid start-up. This means that light comes 'ON' immediately when movement is detected in the room. With the highly efficient chip-controlled electronic ballasts, flickering starts were yesterday.

The RS PRO 5500 is rated for two T5 28-watt fluorescent tubes. For complex lighting tasks, the luminaires can be interconnected easily and economically by cable. It is available in both a master and a slave version. Individual functions and settings can also be selected practically and conveniently by an optional remote control.

Detection zone

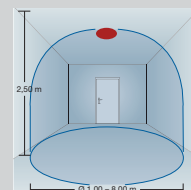


Max. reach: 8 m
Angle of coverage: 360°

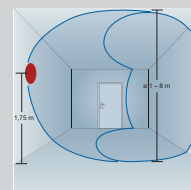


Our high-frequency-sensors operate at 5.8 GHz and 1 mW.

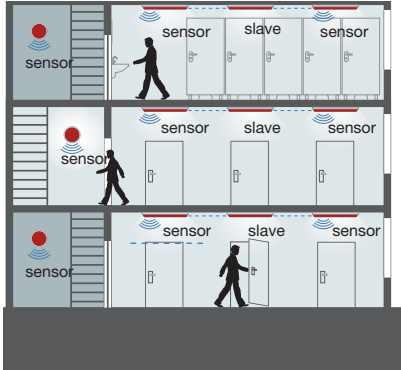
Setting capabilities



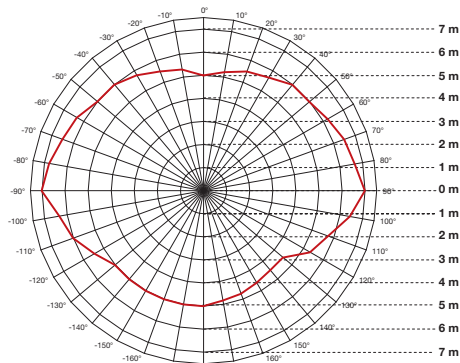
Reach setting 1 – 8 m all round when mounted to ceiling.



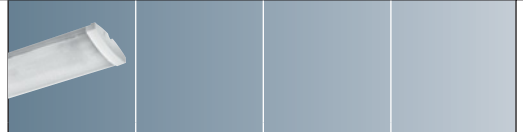
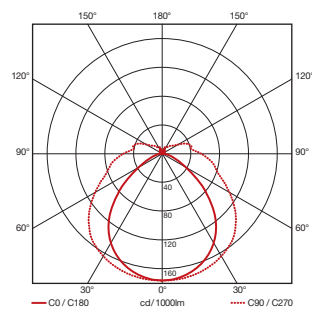
Reach setting 1 – 8 m all round when mounted to wall.



Detection zone at a mounting height of 2.8 m
(red = radial walking direction)



Light distribution curves for RS PRO 5500



RS PRO 5500

EAN	RS PRO 5500 sensor, white RS PRO 5500 slave, white	4007841 749811 4007841 749910
Dimensions (WxHxD)	1295 x 163 x 64 mm	
Output	2 x 28 W / T5 *1 (1 chip-controlled double electronic ballast)	
Additional switching capacity	RS PRO 5500: no more than 4 additional lights	
Voltage	230 – 240 V/50 Hz	
HF-System	5.8 GHz (responds irrespective of temperature to the tiniest of movements) *2	
Detection angle	360° with 160° angle of aperture *2	
Transmitter power	approx. 1 mW	
Reach	1 – 8 m all round, infinitely variable, in 4 directions *2	
Max. area covered	approx. 50 m² *2	
Time setting	1 min. – 20 min. + install mode *2	
Twilight setting	2 – 2000 lux + teach-in mode *2	
IP rating	IP 44/IP 21 when wall-mounted	
Protection class	I	
Temperature range	-10° to +50° C	
Accessories	- Remote control RC 2 EAN 4007841737818 - Emergency light shunt EAN 4007841002657	

*1 It is only permissible to use the lamps specified.
Lamp life is not affected by switching 'ON' and 'OFF'.

*2 For sensor-control version only.

FUNCTIONAL
80 month
WARRANTY

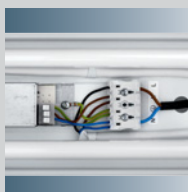
STEINEL
German
Quality



Accessories



Manual parameter settings directly at potentiometers.



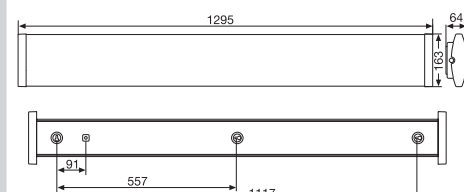
Generous terminal compartment for ease of wiring.



Remote control RC2 RS PRO 5500



Emergency light shunt
Switches over to emergency power system if standard connection fails



Motion Detectors

Presence Detectors

SensorLights

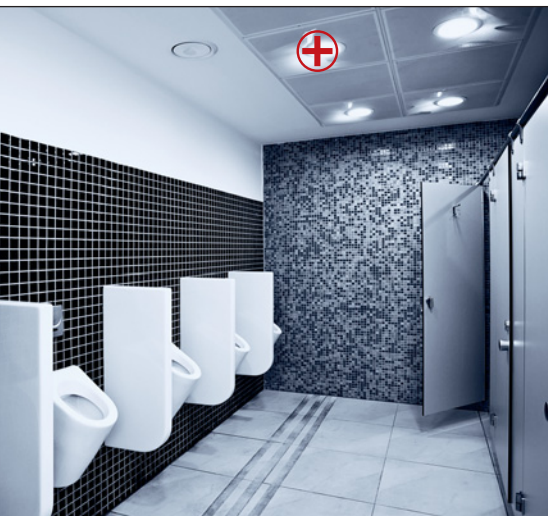
Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

RS PRO DL 100

HF-Sensor Downlight for Recessing in Ceilings



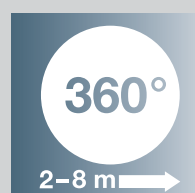
RS PRO SYSTEM

- Unique sensor-controlled downlight
- 2 x 18 W TC-DEL
- Two separate chip-controlled electronic ballasts
- Sensor concealed out of sight behind the ceiling panel
- Reach 2 – 8 m all round, infinitely variable
- Angle of coverage: 360°
- Protection class: IP 20
- Other loads can be connected (800 W max., e.g. bathroom/WC extractor fan, no more than 4 x RS PRO DL 100 SLAVE)

Open to integration: the RS PRO DL 100

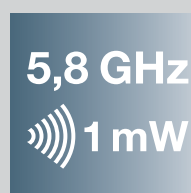
The sensor-controlled RS PRO DL 100 downlight can be fitted elegantly in the ceiling and is particularly suitable for large installations (e.g. WC rooms) at airports, in schools, office buildings and administration centres. The electronics completely disappear behind the suspended ceiling. From the outside, the light looks like any other. On the inside, though, it's equipped with highly advanced technology. Two chip-controlled electronic ballasts for 2 x 18 W TC-DEL ensure efficient, fast and long-lasting light management. Additional loads can be added without a problem. All function settings can only be changed by remote control. However, the light leaves the factory with basic settings suitable for everyday purposes. This downlight comes in a sensor and a slave version.

Detection zone

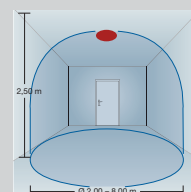


Max. reach: 8 m
Angle of coverage: 360°

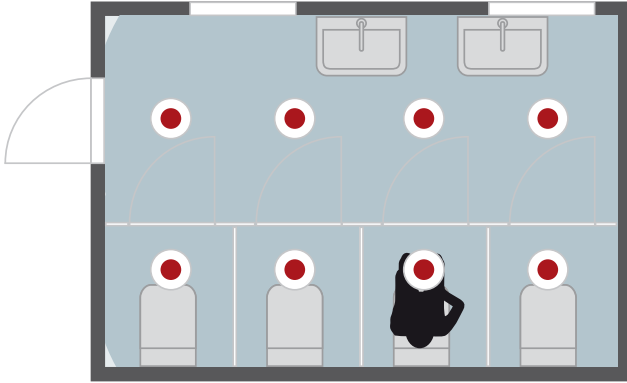
Setting capabilities



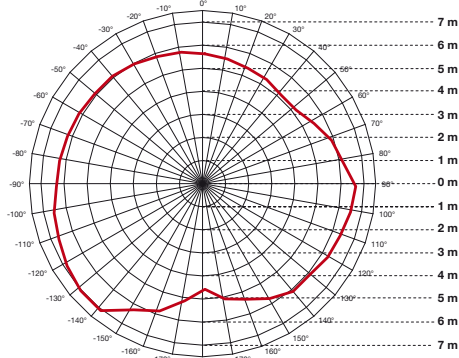
Our high-frequency-sensors work at 5.8 GHz and 1 mW.



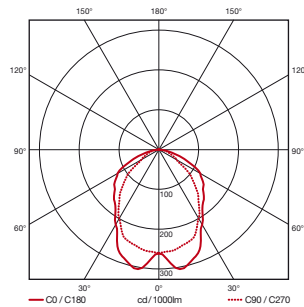
Reach setting 2 – 8 m all round when mounted to ceiling.



Detection zone at a mounting height of 2.8 m
(red = radial walking direction)



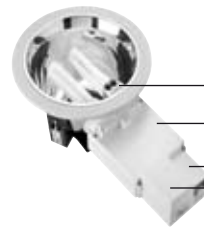
Light distribution curves for RS PRO DL 100



RS PRO DL 100

EAN	RS PRO DL 100 sensor, white, including RS PRO remote control 4007841 002640 RS PRO DL 100 sensor without remote control, white 4007841 003043 RS PRO DL 100 slave without remote control, white 4007841 002633
Dimensions (WxHxD)	240 x 394 x 90 mm
Output	2 x 18 W / TC-DEL *1 (2 electronic ballasts)
Additional switching capacity	RS PRO DL 100: no more than 4 additional lights
Voltage	230 – 240 V/50 Hz (Can be operated on direct current in emergency lighting mode)
HF-System	5.8 GHz (responds irrespective of temperature to the tiniest of movements) *2
Detection angle	360° with 160° angle of aperture *2
Transmitter power	approx. 1 mW *2
Reach	2 – 8 m all round, infinitely variable (by remote control only)
Max. area covered	approx. 50 m ² *2
Time setting	1 min. – 1 h (by remote control only)
Twilight setting	2 – 2000 lux (by remote control only)
IP rating	IP 20
Protection class	II
Temperature range	-10° to +50° C
Accessories	- Remote control RC 2 EAN 4007841737818

*1 It is only permissible to use the lamps specified.
Lamp life is not affected by switching 'ON' and 'OFF'.
*2 For sensor-control version only.



RS PRO DL 100 with light sensor and IR receiver for the remote control

electronic ballasts

connection block
HF-sensor

FUNCTIONAL
36 month
WARRANTY

STEINEL
German
Quality



Accessories

Models



Remote control RC 2



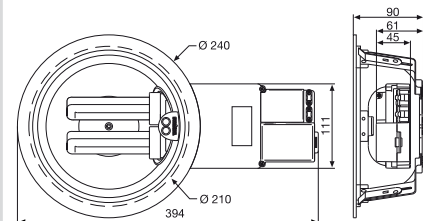
RS PRO DL 100 in the version with sensor



RS PRO DL 100 in the slave version without sensor



RS PRO DL 100 for easy installation in ceiling.



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

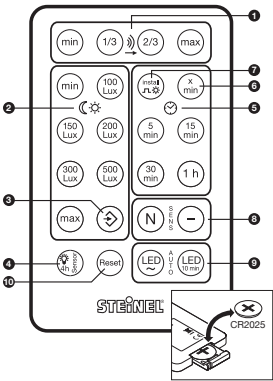
Support, Service

Accessories for RS PRO 5xxx, DL 100

Remote Control for Setting Parameters



RS PRO SYSTEM



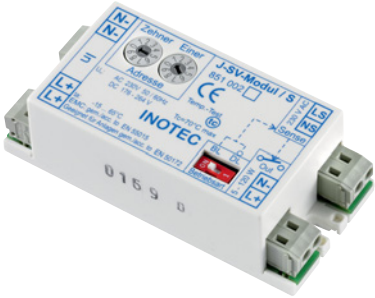
- 1 Reach setting
- 2 Response threshold
- 3 Teach mode
- 4 Manual override
- 5 Time setting
- 6 Light 'ON' time
- 7 Install mode
- 8 Sensor sensitivity
- 9 LED orientation light
- 10 Reset

Convenience at the press of a button: RC 2 remote control
EAN 4007841 737818

The practical and clearly set-out remote control is an extremely valuable aid for controlling our lights. There's no longer any need to make all the settings on the light before you close the cover.

Using the remote control, settings are easily adjusted or changed at any time without a ladder. You can select the most important parameters at the press of a button: Sensor reach, time and twilight setting, light 'ON' time at night, manual override or the sensitivity of the sensor. The remote control is optionally available for the RS PRO 5000 – 5500 and DL 100 models.

FUNCTIONAL
36 month
WARRANTY



RS PRO emergency light shunt
EAN 4007841002657

- Provides light in the event of mains power supply failure or fault
- Switches over to mains-independent power supply

The emergency light shunt provides light in the event of a mains power supply failure or fault (230 V). In an emergency, it switches over to the mains-independent power supply. This ensures continuous, reliable lighting.
Suitable for RS PRO 5000, 5002 LED, 5100, 5200 and 5500.

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

RS PRO LED S1

HF-SensorLights for Indoors



RS PRO SYSTEM

- Completely innovative design
- HF-sensor technology and LED light for maximum efficiency
- LED output 16 W
- Instant light, no start-up curve
- no relay clicking sound
- Pleasant colour of light
- Master/master configurations by 868-MHz wireless link
- Glass or plastic shade

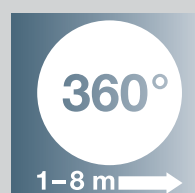


The smartest light in the world: RS PRO LED S1

It has everything today's technology can offer in the way of being an ideal, self-controlled light offering maximum efficiency: a high-frequency sensor for detecting persons, LED's for efficient instant light, a light sensor for identifying the room situation, an 868-MHz wireless communication system for creating light groups, and a modern, slim-line design that also ensures optimum cooling for the LED's. All in all, the RS PRO LED S1 is a lighting revolution: the temperature of the LED's is electronically monitored all the time. Going unnoticed, the system controls output to suit demand so as to provide optimum light all the time while maximising LED life. Several lights can interconnected by wireless communication in a room to form a group. What's interesting here is that all lights have equal status, working and responding as one big light.

Enjoy the unrivalled benefits of LED: no maintenance, no need to change lamps any more, virtually unlimited service life.

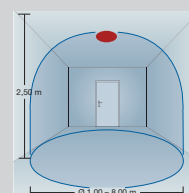
Detection zone



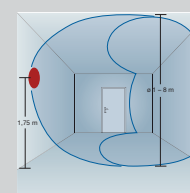
Max. reach: 8 m
Angle of coverage: 360°



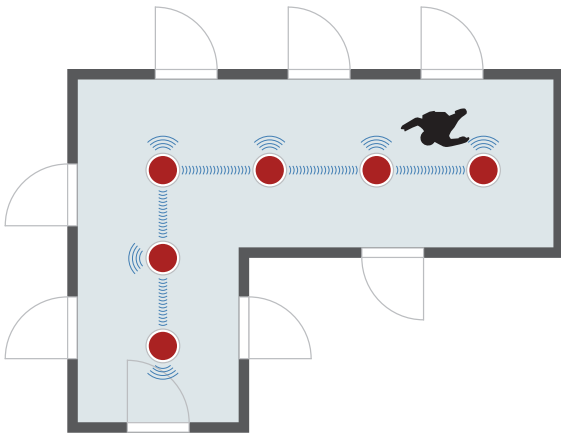
Our high-frequency-sensors operate at 5.8 GHz and 1 mW.



Reach setting 1 – 8 m
all round when mounted
to ceiling.

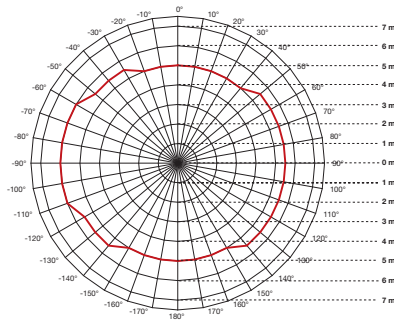


Reach setting 1 – 8 m
all round when mounted
to wall.

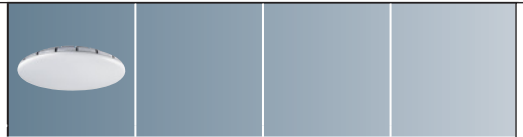
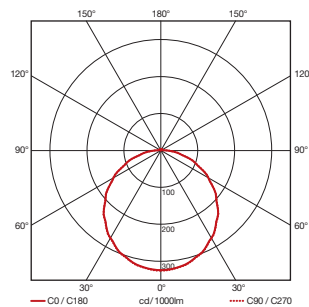


Several lights can interconnected by 868 MHz wireless communication in a room to form a group.

Detection zone at a mounting height of 2.8 m
(red = radial walking direction)



Light distribution curves for RS PRO LED S1



RS PRO LED S1

EAN	RS PRO LED S1 sensor, PC ¹⁾ 4007841 744700 RS PRO LED S1 sensor, PMMA ²⁾ 4007841 745400 RS PRO LED S1 sensor, glass 4007841 744601	
Dimensions (WxHxD)	300 x 300 x 67 mm	
Voltage	230 – 240 V/50 Hz	
Output	16 W LED (1.8 W dimmed)	
Lighting current	1200 lm (without shade)	
Efficiency	75 lm/W (without shade)	
Lighting current (with shade)	Plastic PC: 535 lm Plastic PMMA: 760 lm Glass: 660 lm	
Efficiency (with shade)	Plastic PC: 33,44 lm/W Plastic PMMA: 47,50 lm/W Glass: 41,25 lm/W	
Light colour	3500 Kelvin	
HF-System	5.8 GHz (responds irrespective of temperature to the tiniest of movements)	
Detection angle	360° with 160° angle of aperture	
Transmitter power	approx. 1 mW	
Reach	1 – 8 m all round, infinitely variable, in 4 directions	
Max. area covered	approx. 50 m ²	
Time setting	5 sec. – 15 min. + install mode	
Twilight setting	2 – 2000 lux + teach-in modus	
Brightness control	10 % when dimmed (1.8 W) a) all night b) 10 min. after selected time elapses c) 30 min. after selected time elapses	
IP rating	IP 20	
IK-class	PC: IK07; PMMA: IK03, Glas: IK02	
Protection class	I	
Temperature range	-10° to +50° C	

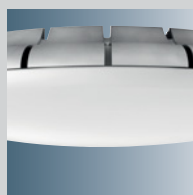


RS PRO LED S1 PC



Detail

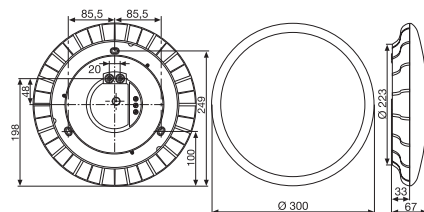
Interconnection



Cooling fins and light diffuser merge into an aesthetically pleasing unit.



Secure wireless protocol;
Reach: approx. 30 m in buildings,
no interference possible from
permanent transmitters. Wireless-
'ON'/'OFF' selector switch



1) PC = Polycarbonate

2) PMMA = Polymethylmethacrylate (colloquial acrylic glass or Plexiglass)

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

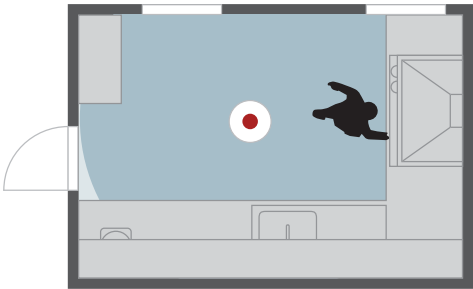
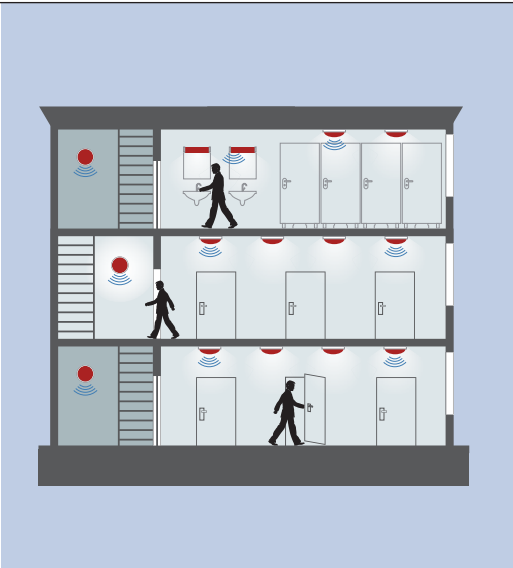
HF-SensorLights for Indoors



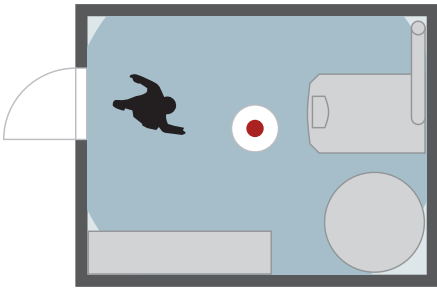
High-frequency Sensors: Intelligent and Focused

Economy of the new generation

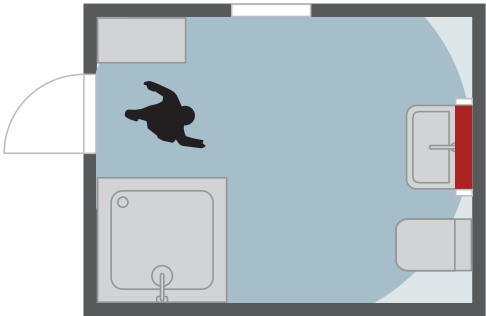
HF-SensorLights are quick-witted: They switch light 'ON' in fast response to any movement. They are intelligent, focused, economical and convenient. Whether for commercial, public or home use, an extremely short response time permits highly effective lighting management. Our lights are suitable for mounting on the wall or ceiling. When it comes to saving costs, convenience and safety, they're the ideal choice for commercial premises, administration centres, school buildings, hotels, hospitals, retirement homes or office complexes. They are as quick and easy to install as conventional lights. Doing away with any switch, separate motion detector and connecting cables, they provide a whole new economic intelligence.



Planning examples for kitchen



Planing examples for boiler room



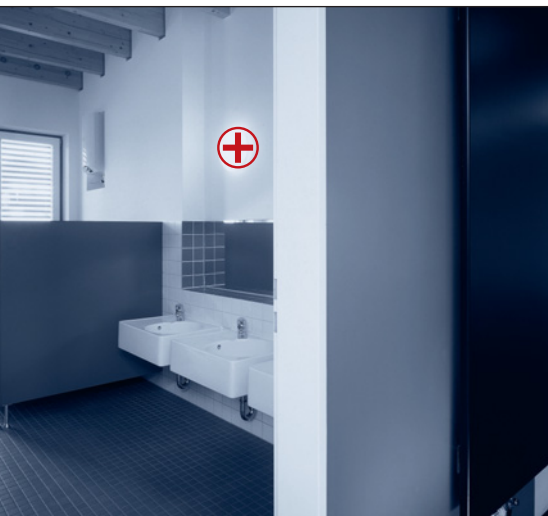
Planning examples for bathrooms



You will find further decorative SensorLights for indoors and outdoors in our separate "Style" catalogue.

Motion Detectors
Presence Detectors
SensorLights
Sensor-Switched Floodlights
Wireless Sensor Systems
Support, Service

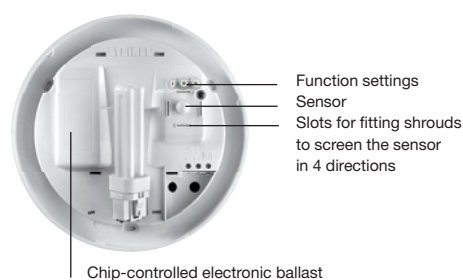
High-Frequency SensorLights for Indoors



- 1 x 13 W TC-DEL G 24-Q1
low-energy lamp
- Chip-controlled electronic ballast
- Impact-resistant plastic shade
- Shrouds for screening
the sensor in 4 directions

Gateway to professional lighting control: The RS 50

The RS 50 is our entry-level light for 1 x 13 W TC-DEL lamps. It is equipped with everything today's highly advanced sensor technology has to offer: it has its own chip-controlled electronic ballast for energy-efficient and convenient rapid start-up. This also gives it a long life. Its understated and practical design also has it all: the white round shade is in impact-resistant plastic, the base is made of aluminium and generously proportioned to facilitate installation. This makes it the ideal starter model for smaller-type lighting tasks.



Detection zone



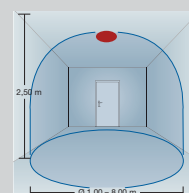
You will find further information
on operation at:
www.steinel.de
For example applications, turn to p. 145



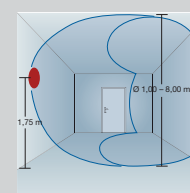
Max. reach: 8 m
Angle of coverage: 360°



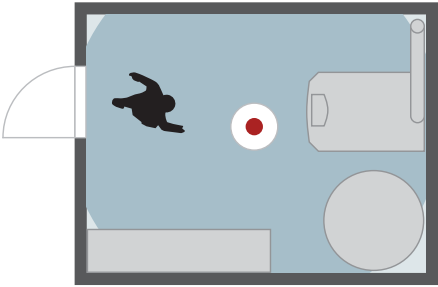
Our high-frequency-
sensors operate at
5.8 GHz and 1 mW.



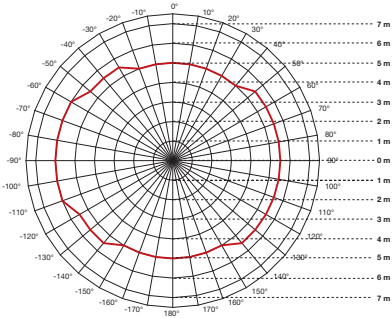
Reach setting 1 – 8 m
all round when mounted
to ceiling.



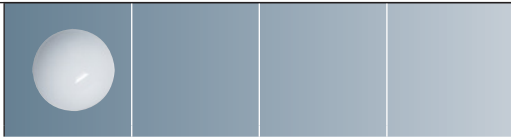
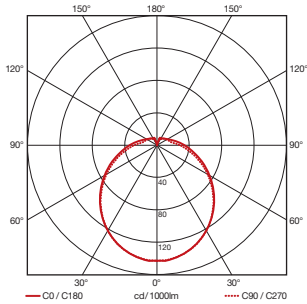
Reach setting 1 – 8 m
all round when mounted
to wall.



Detection zone at a mounting height of 2.8 m
(red = radial walking direction)



Light distribution curves for RS 50



RS 50

EAN	RS 50 sensor, white plastic	4007841 732516
Dimensions (WxHxD)	280 x 280 x 110 mm	
Voltage	230 – 240 V/50 Hz	
Output	1 x 13 W / TC-DEL G 24-Q1 *1 additional switching capacity at L': 100 W max., not more than 4 x RS 50	
HF-System	5.8 GHz (responds irrespective of temperature to the tiniest of movements)	
Detection angle	360° with 160° angle of aperture	
Transmitter power	approx. 1 mW	
Reach	1 – 8 m all round, infinitely variable, in 4 directions	
Max. area covered	approx. 50 m²	
Time setting	1 min. – 15 min.	
Twilight setting	2 – 2000 lux	
IP rating	IP 44	
Protection class	II	
Temperature range	-10° to +50° C	
Accessories	- Designer rings white 4007841 000208 silver 4007841 000295	

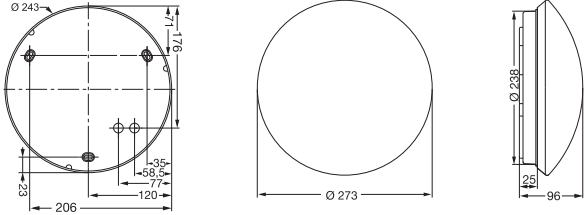
*1 It is only permissible to use the lamps specified.
Lamp life is not affected by switching 'ON' and 'OFF'.



Accessories



Designer-style rings in
white and silver, optional

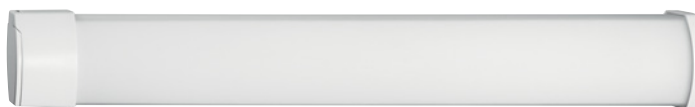


BRS T5/TC-L

HF-SensorLights for Indoors



BRS 81 L opal glass shade / chrome cap 665 x 104 mm



BRS 80 P with power socket, opal glass shade / white cap 710 x 104 mm

- for 1x 24 W low-energy lamp TC-L or T5
- Optional close-range switch for no-touch operation
- Capability of synchronising two lights
- Additional loads can be connected
- Elegant design, exquisite materials
- 2 sizes: 665 mm or 430 mm in length
- Opal glass shade with a choice of caps
- Also available in an impact-resistant finish
- Also with power socket

As wall or mirror light: the BRS models know how to impress

The lights from the BRS series have what it takes: Depending on requirements, they are either switched 'ON' and 'OFF' automatically by the integrated HF-sensor on entering the detection zone or manually by means of a no-contact close-range sensor. This makes them ideal for WCs, bathrooms, kitchens, corridors or cloakrooms in buildings and premises open to the public as well as hotels, retirement homes, hospitals and medical departments. The close-range sensor permits high standards of hygiene. The lights are suitable for powerful 24-watt lamps (TC-L or T5). These are driven by the efficient chip-controlled electronic ballasts from STEINEL Professional. This ensures long life and the convenience of light that starts up instantly without flicker or hum. The setting potentiometers are concealed behind a screw-mounted trim panel to prevent users from inadvertently changing settings.

Detection zone

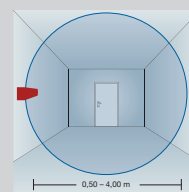


Max. reach: 4 m
Angle of coverage: 360°

Setting capabilities



Our high-frequency-sensors operate at 5.8 GHz and 1 mW.



Reach setting 0.5 – 4 m all round when mounted to wall.



Response brightness can be set to any level from 2 – 2000 lux



BRS 82 L opal glass shade / matt chrome cap
665 x 104 mm



BRS 86 L opal glass shade / chrome cap
430 x 104 mm



BRS 83 L impact-resistant plastic / white cap
665 x 104 mm



BRS 87 L opal glass shade / matt chrome cap
430 x 104 mm



BRS 83 P with power socket, impact-resistant plastic /
white cap 710 x 104 mm



BRS 85 P with power socket, opal glass shade /
white cap 480 x 104 mm

Features

Low-energy lamp

- 24 W lamp
- TC-L or T5
- Chip-controlled electronic ballast

Sensor

- 360°-high-frequency sensor, 0.5 – 4 m
- Reach can be set as required
- Precision adjustment of light 'ON' time and twilight response threshold
- Close-range sensor

Practical, stylish design

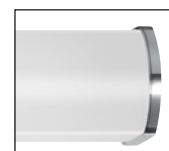
The tasteful design of these lights fits into any room with a stylish look of harmony. The glass shades are crafted from matt opal glass and also available in an impact-resistant finish. The caps can be varied: white, chrome or matt chrome. The models from the BRS range come in two sizes: in a length of 660 or 425 millimetres. In addition, all models are easily interconnected by cable. They can be combined to create entire lighting groups. Some models feature a power socket. The close-range sensor switches light 'ON' or 'OFF' without touching. This is a particular advantage in rooms where greater importance needs to be attached to hygiene, cleanliness and electrical safety. Even when hands are wet or dirty, light can be switched 'ON' safely and hygienically precisely when it's needed. A light-emitting diode makes the sensor surface easy to find in the dark as well. The light is supplied with a sticker telling the user how to operate it.



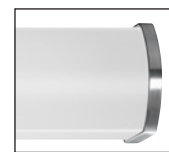
white



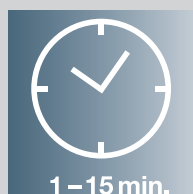
socket



polished chrome



matt chrome



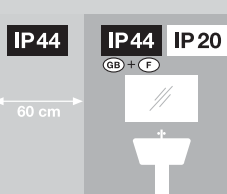
'ON' period can be infinitely varied from 1 – 15 min.



Can be switched 'ON' by no-contact close-range sensor



IP 44 rating suitable for rooms exposed to moisture



Motion Detectors

Presence Detectors

SensorLights

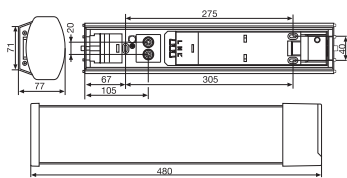
Sensor-Switched Floodlights

Wireless Sensor Systems

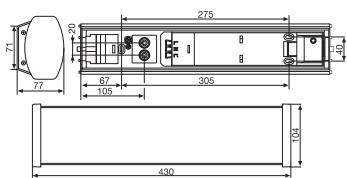
Support, Service

BRS T5/TC-L

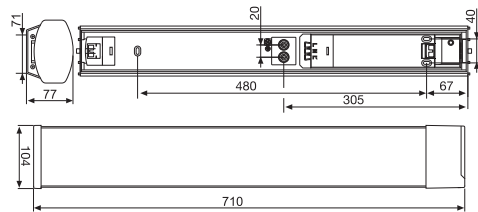
HF-SensorLights for Indoors



BRS with power socket, short

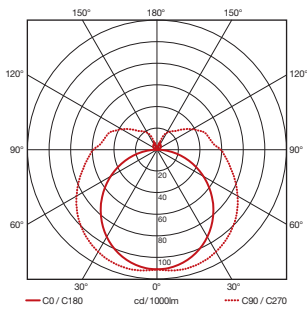


BRS short

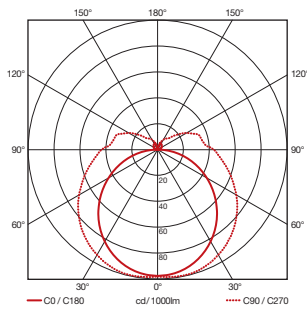


BRS with power socket, long

Light distribution curves for BRS short and BRS long



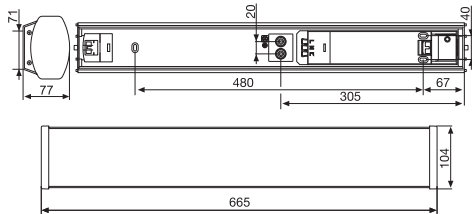
1 x 24 W (TC-L)



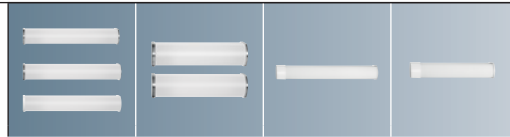
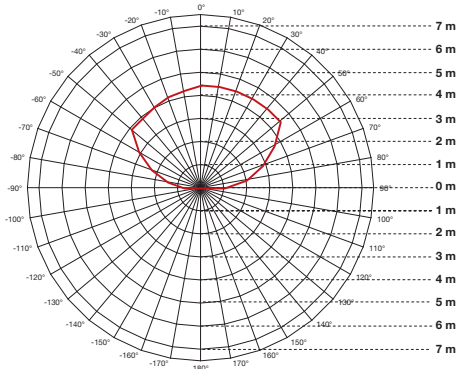
1 x 24 W (T5)



You will find further information
on operation at:
www.steinel.de
For example applications, turn to p. 145



BRS long

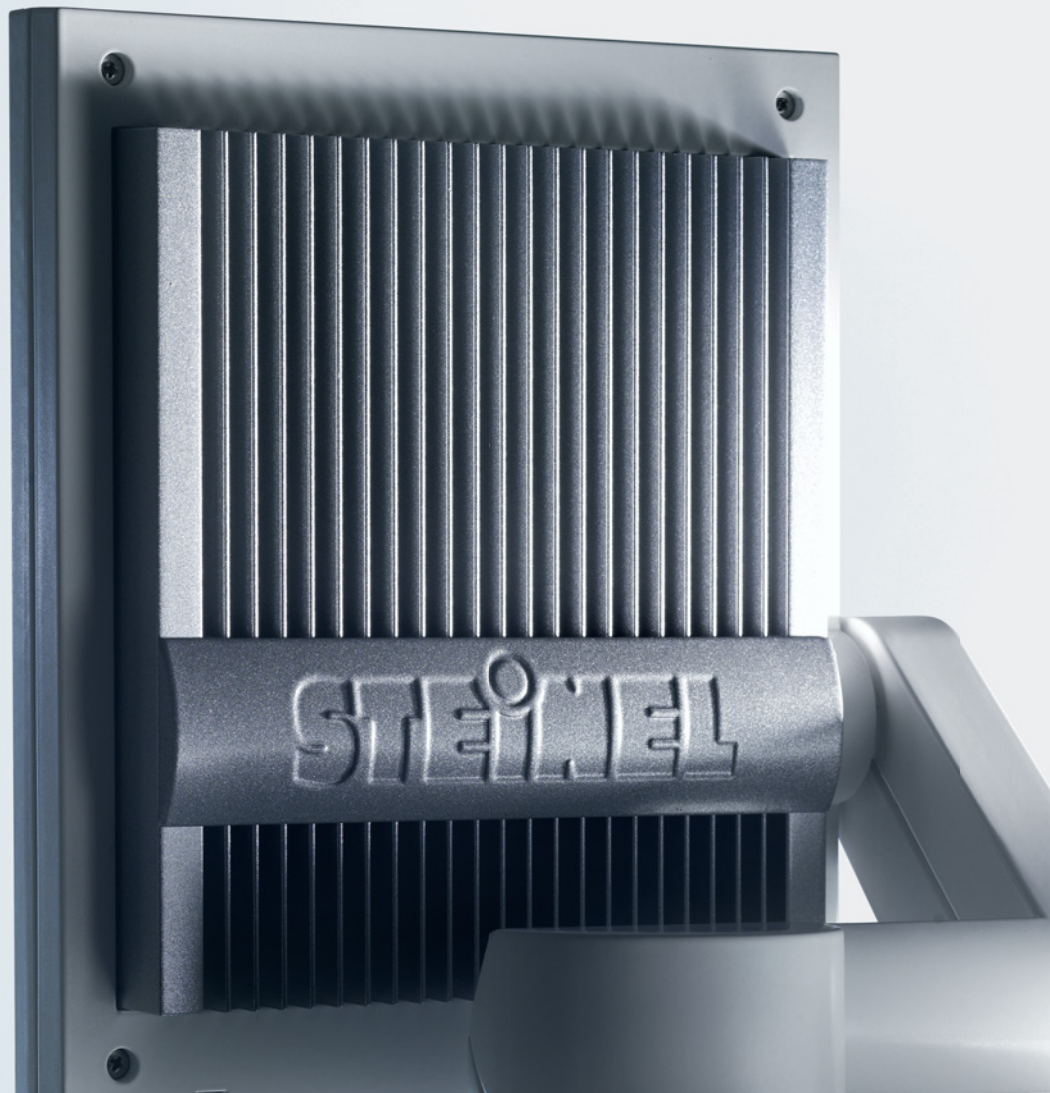
Detection zone at a mounting height of 1.8 m
(red = radial walking direction)

BRS 81/82/83/86/87
BRS P 80/83/85

EAN	BRS 81 L chrome, long 4007841 741310 BRS 82 L matt chrome, long 4007841 741419 BRS 83 L impact-resist., long 4007841 741914 BRS 86 L chrome, short 4007841 741617 BRS 87 L matt chrome, short 4007841 741716	
	Power socket options BRS 80 P Euro, long 4007841 744809 BRS 80 P GB, long 4007841 744823 BRS 80 P CH, long 4007841 744816 BRS 83 P Euro impact-res., long 4007841 744908 BRS 83 P GB, long 4007841 744922 BRS 83 P CH, long 4007841 744915 BRS 85 P Euro, short 4007841 745004 BRS 85 P GB, short 4007841 745028 BRS 85 P CH, short 4007841 745011	
Dimensions (WxHxD)	BRS long BRS short BRS P long BRS P short	104 x 665 x 77 mm 104 x 430 x 77 mm 104 x 710 x 77 mm 104 x 480 x 77 mm
Output	BRS long BRS short (1 chip-controlled electronic ballast)	T5 24 W *1 TC-L 24 W *1
Voltage	230 – 240 V/50 Hz	
Transmitter power	approx. 1 mW	
Detection angle	360° with 160° angle of aperture, also through glass, wood and stud walls	
HF-System	5.80 GHz (responds irrespective of temperature to the tiniest of movements)	
Reach	0.5 – 4 m, infinitely variable Close-up range approx. 5 cm	
Time setting	1 min. – 15 min.	
Twilight setting	2 – 2000 lux	
IP rating	IP 44	
Protection class	I	
Temperature range	-10° to +50° C	

*1 It is only permissible to use the lamps specified.







Sensor-Switched Floodlights









A wide range of attractive forms and design options meet technology of the finest quality and maximum efficiency in our range of sensor-switched floodlights.





Overview

Sensor-Switched Floodlights

	Sensor-Switched LED Floodlights		LED Floodlights		Sensor-Switched Halogen Floodlights			Halogen Floodl.	Motion Detectors
									
	XLed 10	XLed 25	XLed-SL 10	XLed-SL 25	HS 502	HS 152 XENO	HS 2160	HS-S 150 W	
With sensor	●	●			●	●	●		
Without sensor, for interconnecting			●	●				●	
Output	10 LED's, approx. 25 W	25 LED's, approx. 60 W	10 LED's, approx. 25 W	25 LED's, approx. 60 W	500 W/R7S	150 W/R7S	150 W/R7S	150 W/R7S	
Additional switching capacity	800 W max.	800 W max.	800 W max.	800 W max.	500 W max.	800 W max.	500 W max.		
Detection angle	240°	240°			180°	180°	160°		
Reach	12 m max.	12 m max.			20 m max. or 8 m max.	20 m max. or 8 m max.	12 m max.		
Ground spike	Optional	Optional	Optional	Optional					
Corner wall mount								Optional	
Page	158	158	160	160	162	164	166	168	
									Presence Detectors
									SensorLights
									Sensor-Switched Floodlights
									Wireless Sensor Systems
									Support, Service

Sensor-Switched LED Floodlights

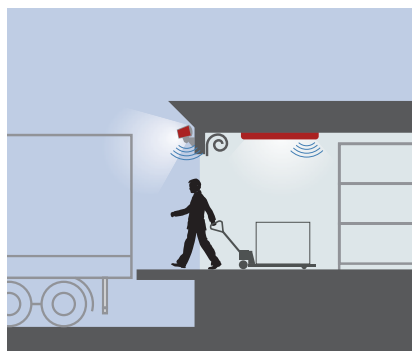


Ecologically and Economically Intelligent: Sensor-Switched LED Floodlights

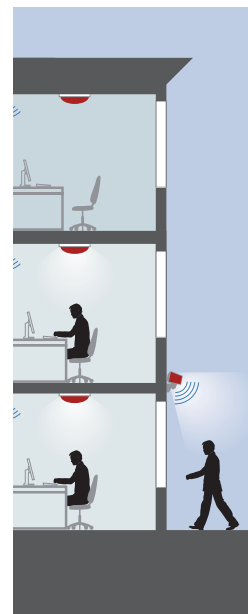
Our top-performing XLed sensor-switched floodlights set standards in efficiency. Outdoor lighting makes up an important aspect of planning, particularly for large open spaces and expansive properties. This is where the best possible cost-benefit ratio takes top priority. An automated lighting system geared exactly to providing light when it's needed goes a long way towards saving energy and, with this, also costs.

The XLed-sensor-switched floodlights from STEINEL Professional combine high-quality sensor technologies and LED light. The range systematically demonstrates that efficiency is a matter of technology: this being 100% LED light requiring only about a third of the energy used by halogen floodlights. That speaks for itself.

The challenge with high-performance LED floodlights of this type (at up to 60 W) lies in heat management. Our answer to this: ATC. We achieve optimum heat dissipation through our cooling fins as well as from our patented Active-Thermo-Control system. The temperature of the LED's is measured continuously. Action is taken in critical situations, all controlled by microprocessor and going unnoticed by the user. Only this way can the high-performance LED's be guaranteed to last their full life expectancy.



Planning example for loading bay



Planning example for outdoor area

Benefits of XLed

- Very high energy saving
- Convenience from automated light management
- Combination of sensor system and LED light
- Integrated electronic ballasts
- ATC - Active Thermo Control
- Also suitable for installing under porches
- Well-spread radiation of light
- Life of LED's: 50,000 h
- Fast 2-piece installation

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems



Support, Service

XLed 10, XLed 25

Sensor-Switched LED Floodlights for Mounting on Walls and Ground Installation



- XLed either with 10 or 25 LED's
- Flat-design-light head, aluminium
- Approx. 25 or 60 W power consumption
- Integrated 240° motion detector
- 70% energy saving
- Well-spread light radiation
- Head tilts and swivels
- ATC - Active Thermo Control
- Integrated electronic ballasts

Power LED Floodlights

The models from this range have attracted awards not only for their outstanding design but also for innovation, operating convenience and ecology. Stunning in looks, these floodlights employ a cooling concept developed specifically for it. They are actively controlled by microprocessor. As a result of their unique directional flexibility, illumination can be adjusted with extreme precision. With an evenly broad radiation of light, this high-end solution provides day-bright light all around the building – and does so using a minimal amount of energy. If you wish, you can select a basic brightness of 10 per cent (approx. 3 W). Either all night long or for 10 minutes after the selected 'ON' time elapses.



- 70% energy saving from LED technology
- Long-life LED's

Detection zone



Max. reach: 12 m
Angle of coverage: 240°

Setting capabilities



Time, twilight and basic-brightness setting

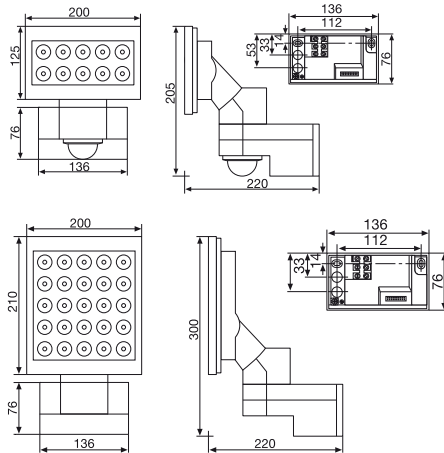


Reducing detection range



Reducing coverage angle

XLed 10



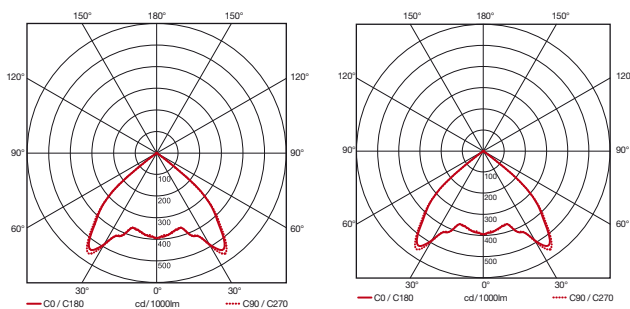
XLed 25



XLed 10 / XLed 25

EAN	XLed 10 black 4007841 654511 XLed 10 white 4007841 654610 XLed 25 black 4007841 654719 XLed 25 white 4007841 654818
Dimensions (WxHxD)	XLed 10 205 x 200 x 220 mm XLed 25 300 x 200 x 220 mm
Voltage	230 – 240 V/50 Hz
Output	XLed 10 10 LED's, approx. 25 W XLed 25 25 LED's, approx. 60 W
Additional switching capacity	- 800 W max. (resistive load, e.g. filament bulb) - 400 W max. (uncorrected, inductive, $\cos \phi = 0.5$, e.g. fluorescent lamps) - electronic ballasts, capacitive, e.g. low-energy lamps, no more than 4 each, $\leq 88 \mu F$
Life of LED's	up to 50,000 hrs. (at 3 hrs./day, approx. 45 years)
Detection angle	240° with sneak-by guard
Reach	12 m all round, temperature-stabilised
Sensor system	9 detection levels, 304 switching zones
Time setting	5 sec. – 15 min.
Twilight setting	2 – 2000 lux
IP rating	IP 44
Protection class	I
Temperature range	-20° to +50° C
Brightness control	10% basic brightness (approx. 3 W) a) 10 min. after time setting elapses b) all night
Manual override	4 hours, selectable.
Accessories	- Ground spike, silver, 365 x 136 x 80 mm EAN 4007841654917

Light distribution curves for XLed 10, XLed 25

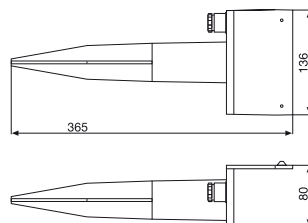
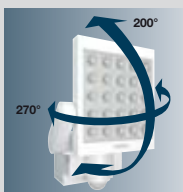


XLed 10

XLed 25



Accessories



Aluminium light head: Flat design, adjustable in all directions

Ground spike, silver

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

XLed-SL 10, XLed-SL 25

Sensor-Switched LED Floodlights for Mounting on Walls and Ground Installation



- XLed either with 10 or 25 LED's
- Flat-design-light head, aluminium
- Approx. 25 or 60 W power consumption
- 70% energy saving
- Well-spread light radiation
- Head tilts and swivels
- ATC - Active Thermo Control
- Integrated electronic ballasts

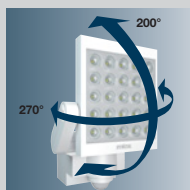
Powerful LED floodlights

The high-end XLed floodlights are also available in a slave version without sensor. This way, LED technology can be added to multiple-light systems, managing complex lighting tasks with maximum efficiency. Long-life LED's also provide dazzlingly bright light using a minimal amount of energy. Giving off very little heat, they can also be installed below projecting structures without a problem. The detection zone is perfectly adjusted by tilting and turning the flat-design light head. This is made of aluminium and equipped with either ten or twenty-five LED's.



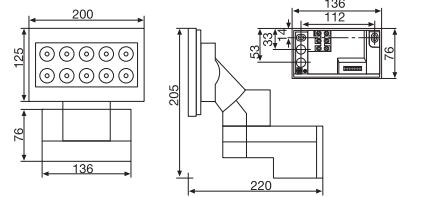
- 70% energy saving from LED technology
- Long-life LED's

Setting capabilities

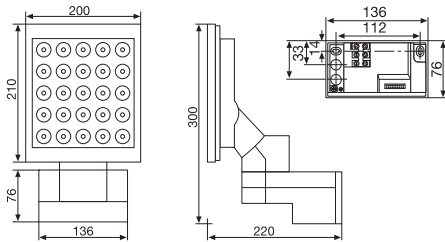


Aluminium light head: Flat design, adjustable in all directions

XLed-SL 10



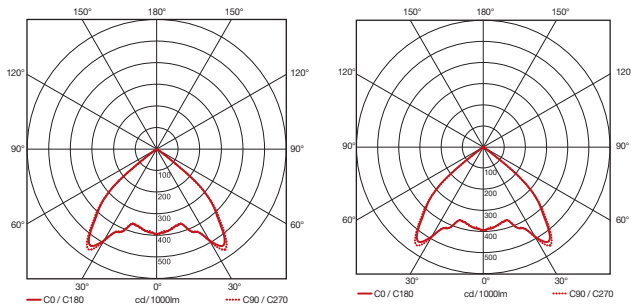
XLed-SL 25



XLed-SL 10 / XLed -SL25

EAN	XLed-SL 10 black 4007841 658113	
	XLed-SL 10 white 4007841 658212	
	XLed-SL 25 black 4007841 658519	
	XLed-SL 25 white 4007841 658618	
Dimensions (WxHxD)	XLed-SL 10	205 x 200 x 220 mm
	XLed-SL 25	300 x 200 x 220 mm
Voltage	230 – 240 V/50 Hz	
Output	XLed-SL 10	10 LED's, approx. 25 W
	XLed-SL 25	25 LED's, approx. 60 W
Life of LED's	up to 50,000 hrs. (at 3 hrs./day, approx. 45 years)	
IP rating	IP 44	
Protection class	I	
Temperature range	-20° to +40° C	
Accessories	- Ground spike, silver, 365 x 136 x 80 mm EAN 4007841 654917	

Light distribution curves for XLed-SL 10, XLed-SL 25

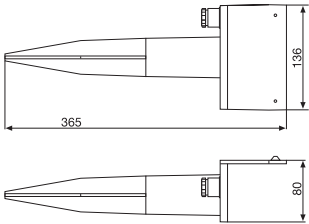


XLed-SL 10

XLed-SL 25



Accessories



Ground spike, silver

Sensor-Switched Halogen Floodlight for Mounting on Walls



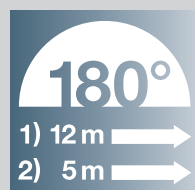
- Sensor-switched halogen floodlight
- 500 watts max.
- Tilting/turning reflector head
- Connection of other loads at an additional switching output
- Head tilts through: 40°
- Head turns through: 30°
- Linear ECO halogen lamp is included

Compact and understated: the HS 502

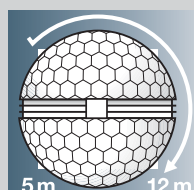
Halogen floodlight 502 is equipped with a DUO-sensor and multi-lens. The sensor has a reach of up to 12 metres with a coverage angle of 180° and an angle of aperture of 90°. It is the perfect choice specifically for sensitive common areas in which conventional lights are not bright enough. Reach is limited to about 5 metres quickly and easily by turning the two-zone multi-lens. Bezel, wall mount and floodlight enclosure are made of tough die-cast aluminium. This floodlight is rated for halogen lamps of up to 500 watts. Further loads can be connected at an additional switching output. Of timeless design, this compact floodlight is understated, making it suitable for any purpose.



Detection zone

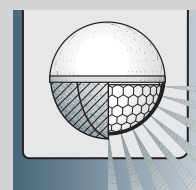


Max. reach: 5 m, 12 m
Angle of coverage: 180°
Angle of aperture: 90°

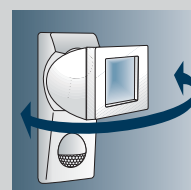


Multi-lens: reach is adjusted by turning

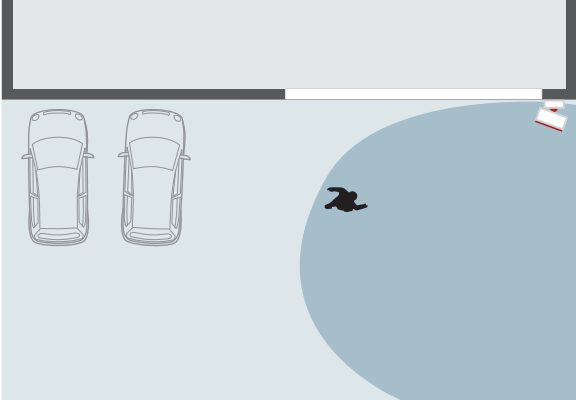
Setting capabilities



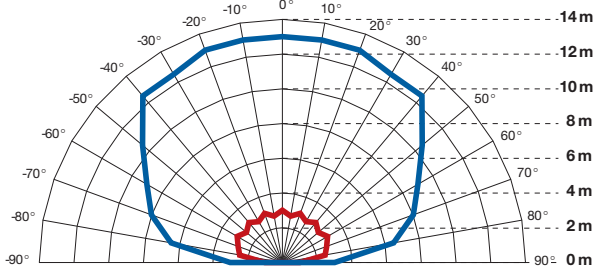
Shrouds: restrict the angle of coverage and reach to suit requirements



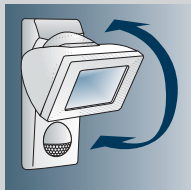
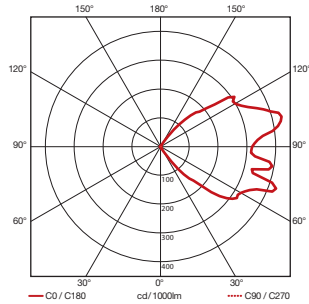
Floodlight enclosure: cone of light can be precisely targeted by turning the enclosure (30° max.).....



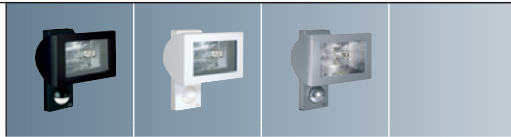
HS 502 reach, mounting height 1.8 m
(blue = tangential walking direction, red = radial walking direction)



Light distribution curves for HS 502

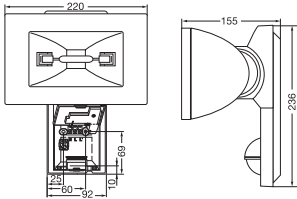


... and tilting
through 40°



HS 502

EAN	HS 502 black HS 502 white HS 502 silver	4007841 632717 4007841 632816 4007841 648510
Dimensions (WxHxD)	236 x 220 x 155 mm	
Voltage	230 – 240 V/50 Hz	
Output	500 W max. / R7s 400 W ECO linear lamp (included)	
Additional switching capacity	- 500 W max. (resistive load, e.g. filament bulb) - 300 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - electronic ballasts, capacitive, e.g. low-energy lamps, no more than 2 each, $\leq 44 \mu\text{F}$	
Detection angle	180° with 90° angle of aperture	
Reach	Basic setting 1: 12 m max. Basic setting 2: 5 m max. + precision adjustment using shrouds; temperature-stabilised	
Sensor system	10 detection levels (12 m), 9 detection levels (5 m), 504 switching zones (12 m), 412 switching zones (5 m)	
Time setting	10 sec. – 15 min.	
Twilight setting	2 – 2000 lux	
IP rating	IP 44	
Protection class	I	
Temperature range	-20° to +40° C	



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

HS 152 XENO

Sensor-Switched Halogen Floodlight with XENO Light for Mounting on Walls



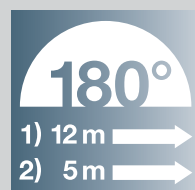
- Sensor-switched halogen floodlight delivering light similar to daylight
- 150 W max.
- Tilting/turning reflector head
- Linear ECO halogen lamp is included
- Connection of other loads at an additional switching output
- Head tilts through: 40°
- Head turns through: 30°

As bright as day: the HS 152 XENO

The HS 152 XENO benefits from the STEINEL Professional DUO-sensor and two-zone multi-lens. The sensor has a reach of up to 12 metres with a coverage angle of 180° and an angle of aperture of 90°. Bezel, wall mount and floodlight enclosure are manufactured from tough die-cast aluminium. Twilight threshold and light 'ON' time can be adjusted to suit the user's requirements. The XENO glass filter is unique. Filtering the halogen light, it provides a colour temperature similar to that of daylight. The HS 152 XENO has a maximum rating of 150 watts. Further loads can be connected at an additional switching output.



Detection zone

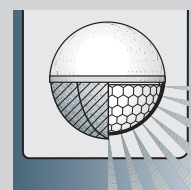


Max. reach: 5 m, 12 m
Angle of coverage: 180°
Angle of aperture: 90°

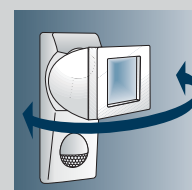


Multi-lens: reach set by turning

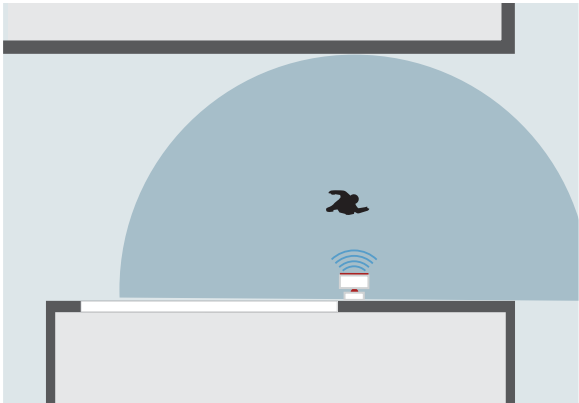
Setting capabilities



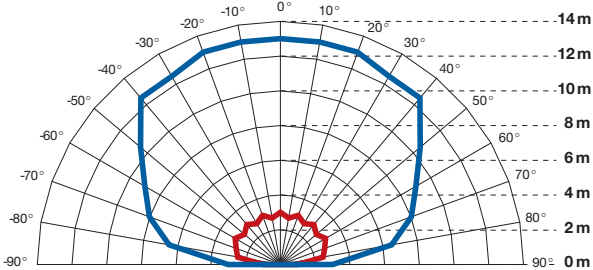
Shrouds: restrict the angle of coverage and reach to suit requirements



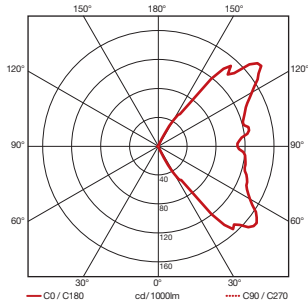
Floodlight enclosure: cone of light can be aimed precisely by turning the enclosure (30° max.).....



HS 152 XENO reach
(blue = tangential walking direction, red = radial walking direction)



Light distribution curves for HS 152 XENO

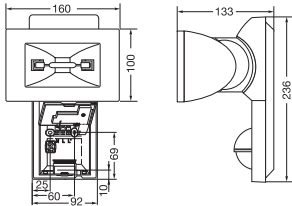


... and tilting
through 40°



HS 152 XENO

EAN	HS 152 XENO black HS 152 XENO white HS 152 XENO silver	4007841 632014 4007841 632113 4007841 648411
Dimensions (WxHxD)	236 x 160 x 133 mm	
Voltage	230 – 240 V/50 Hz	
Output	150 W max. / R7S 125 W ECO linear lamp (included)	
Additional switching capacity	- 800 W max. (resistive load, e.g. filament bulb) - 400 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - electronic ballasts, capacitive, e.g. low-energy lamps, no more than 4 each, $\leq 88 \mu F$	
Detection angle	180° with 90° angle of aperture	
Reach	Basic setting 1: 12 m max. Basic setting 2: 5 m max. + precision adjustment using shrouds; temperature-stabilised	
Sensor system	10 detection levels (12 m), 9 detection levels (5 m), 504 switching zones (12 m), 412 switching zones (5 m)	
Time setting	10 sec. – 15 min.	
Twilight setting	2 – 2000 lux	
IP rating	IP 44	
Protection class	I	
Temperature range	-20° to +40° C	



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

HS 2160 ECO

Sensor-Switched Halogen Floodlights for Mounting on Walls



- Sensor-switched halogen floodlights
- Tilting/turning reflector
- Linear ECO halogen lamp is included
- Tilts through: 80°
- Turns through: 44°
- Light 'ON' time and twilight threshold are easily set by dial
- Connection of other loads at an additional switching output
- Sensor and floodlight head can be adjusted exactly as required

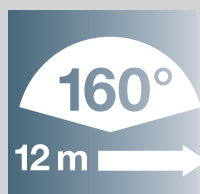
Economy halogen light: the HS 2160 ECO

The economy floodlight is rated for a maximum of 150 watts. It is equipped with the same tried and proven sensor technology as the IS 2160 sensor and has a detection angle of 160° with an angle of aperture of 40°. With this, and a reach of 12 metres, it can reliably watch over every last inch of areas as large as 170 m². Its enclosure not only tilts through an angle of up to 80° but also turns horizontally through up to 44°. This allows you to adjust illumination with ease and precision exactly as you require. Related to the IS 2160 in design as well, both products from our economy range provide unbeatable value.

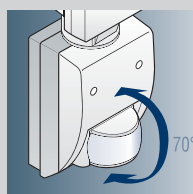


Detection zone

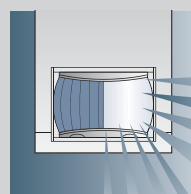
Setting capabilities



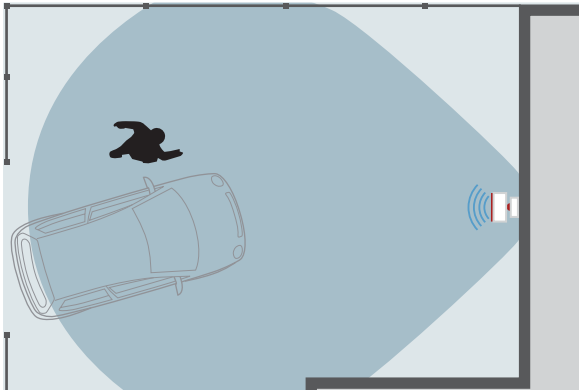
Max. reach: 12 m
Angle of coverage: 160°
Angle of aperture: 40°



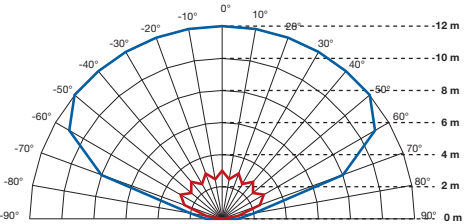
Exact detection zone
adjustment by tilting



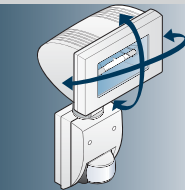
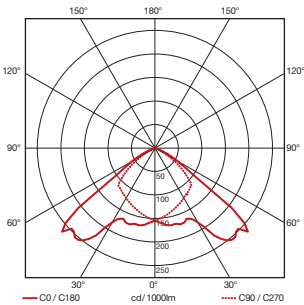
Shrouds: restrict the angle of
coverage and reach to suit
requirements





HS 2160 ECO reach, mounting height 1.8 m
(blue = tangential walking direction, red = radial walking direction)

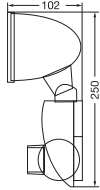
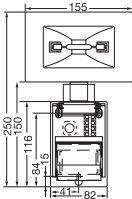


Light distribution curves for HS 2160 ECO



Floodlight housing can be turned 80° vertically, 44° horizontally

 		
HS 2160 ECO		
EAN	HS 2160 ECO black HS 2160 ECO white	4007841 630713 4007841 630812
Dimensions (WxHxD)	250 x 155 x 102 mm	
Voltage	230 – 240 V/50 Hz	
Output	150 W max. / R7s, 125 W ECO linear lamp (included)	
Additional switching capacity	- 500 W max. (resistive load, e.g. filament bulb) - 300 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - electronic ballasts, capacitive, e.g. low-energy lamps, no more than 2 each, $\leq 44 \mu\text{F}$	
Detection angle	160° with 40° angle of aperture	
Reach	12 m max.	
Sensor system	5 detection levels, 260 switching zones	
Time setting	8 sec. – 35 min.	
Twilight setting	2 – 2000 lux	
IP rating	IP 44	
Protection class	I	
Temperature range	-20° to +40° C	



HS-S 150 W Slave

Halogen Floodlight for Mounting on Walls and Corners



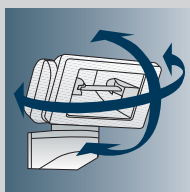
- Halogen floodlight
- For connecting to sensor-switched halogen floodlights with external switch output
- Enclosure in die-cast aluminium
- Linear ECO halogen lamp is included
- Head tilts through 80° and turns through 44°
- Ceramic reflector

At your service: the HS-S 150 W Slave

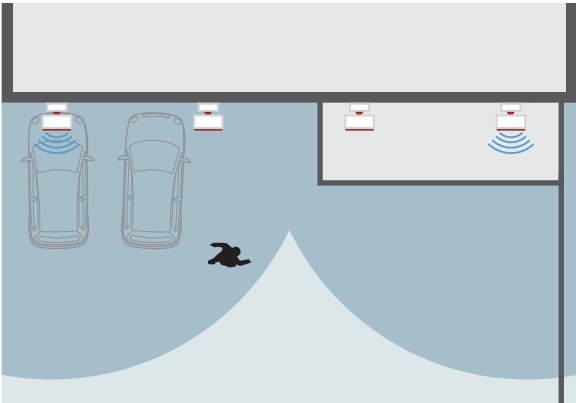
This halogen floodlight in the slave version without sensor is designed specifically for connecting to sensor-switched halogen floodlights with external switch output. This is ideal for lighting tasks on walls and in corner situations. It comes with a maximum rating of 150 watts. Made from durable, tough die-cast aluminium, its enclosure can be tilted and turned for exact reach adjustment. The reflector is made of ceramic material for good thermal and optical properties.



Setting capabilities



Floodlight housing can be turned 80° vertically, 44° horizontally



HS-S 150 W Slave

EAN	HS-S 150 W Slave black HS-S 150 W Slave white	4007841 631314 4007841 631215
Dimensions (WxHxD)	180 x 156 x 166 mm	
Voltage	230 – 240 V/50 Hz	
Output	150 W max. / R7s, 125 W ECO linear lamp (included)	
IP rating	IP 44	
Protection class	I	
Temperature range	-20° to +40° C	
Accessories	- Corner wall mount (EWH 02) optionally available EAN 4007841630560 (black), EAN 4007841630669 (white)	

Motion Detectors

Presence Detectors

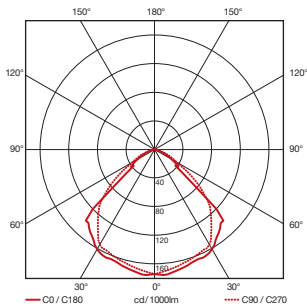
SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Light distribution curves for HS-S 150 W Slave

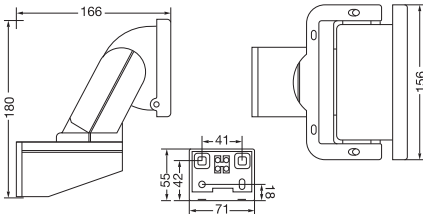


HS-S 150 W Slave

FUNCTIONAL
36 month
WARRANTY

STEINEL

German
Quality



IMPULSER

















Wireless Sensor Systems

Our Impulser range provides completely new options for installing and interconnecting sensors and SensorLights.



Overview Wireless Sensor Systems

	Transmitters			Receivers						Motion Detectors	
											
	IR Quattro	IS-FS 300	RC 400	XLed-FE 10	XLed-FE 25	HS-FE 150	HS-FE 500	FE 8100	FE 8200		
Indoors	●	●	●					●	●	Presence Detectors	
Outdoors		●	●	●	●	●	●	●			
Mounting height	2.50 – 3.50 m	2.00 m									
Type of installation	Ceil. mounting	Wall mounting		Wall mounting	Wall mounting	Wall mounting	Wall mounting	Surface wiring	Conceal. wiring		
Operating voltage/ power output	9-V block battery	9-V block battery	3 x 1.5-V battery AAA	10 LED's, approx. 25 W	25 LED's, approx. 60 W	150 W/R7s	500 W/R7s	1000 W max.	1000 W max.		
Sensor detection zone	7 x 7 m (49 m²)	300°								SensorLights	
Sensor reach		12 m max.									
Optional accessories/ special features	guard cage, surface-mount- ed adapter, clamp-type ceiling adapter	Corner wall mount		Ground spike	Ground spike	Corner wall mount					
Page	176	177	178	179	179	180	181	182	182	Wireless Sensor Systems	
	Transceiver										Sensor-Switched Floodlights
											
	MF1	RS PRO 1000, 2000 + MF1	sensiQ + MF1								
Indoors	●	●									Support, Service
Outdoors	●		●								
Mounting height		2.00 – 2.50 m	2.00 – 2.50 m								
Type of installation		Wall or ceiling mounting	Wall or ceiling mounting								
Operating voltage/ power output		230 – 240 V, 50 Hz	230 – 240 V, 50 Hz								
Detection zone		360°	300°							Wireless Sensor Systems	
Reach		8 m max.	20 m max.								
Optional accessories/ special features		Mounting adapter, MLED1 module, battery-powered MLED1a module, emergency light module	Corner wall mount, RC2 remote control								
Page	183	183	183							Support, Service	

Wireless Sensor Systems

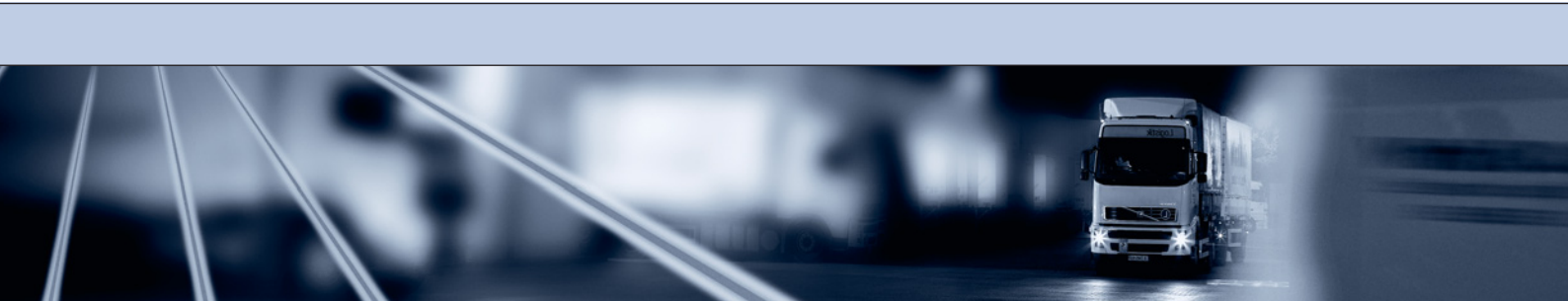




IMPULSER

WIRELESS 868 MHz

Transmitter **Receiver**



IMPULSER

The new flexibility in communication: our wireless family

Our wireless sensor family communicates without cords or cables. Wireless transmission at 868.3 MHz also makes this reliable and eliminates interference. The combination of cutting-edge sensor technology and intelligent processor control also takes care of exacting applications.

The members of our wireless family

Our wireless family is made up of sensors, remote control as well as outdoor halogen floodlights and modules. This provides the basis for integrating the hi-tech sensIQ sensor and the RS PRO series in wirelessly interconnected lighting automation systems. In other words, both indoor and outdoor lighting can be combined to provide seamless, high-efficiency lighting management.

At the core of our Impulser series is state-of-the art 868.3-MHz wireless technology. The ISM frequency band is unique in the way it provides interference-free and reliable wireless communication between individual products. It allows you to set as many as 32 addresses per component. Although the 'ON' command from a sensor or remote control is sent to all wireless modules in the transmission zone, only receivers with the same address respond to it.

Impulser High-Lights

Features

- Fast, easy installation without cables
- Sophisticated options for combining transmitters and receivers
- User-configured transmitters and receivers
- Reliable wireless communication on the 868.3-MHz band
- Sensors, outdoor and indoor lights as well as other actuators can be interconnected in any way you choose

Safety and security

- Lights switch 'ON' automatically to deter intruders
- Surveillance of private, commercial, industrial, public as well as remote areas and spaces

Convenience

- Automated lighting
- Lights and loads switch 'ON' and 'OFF' by themselves

Motion Detectors

Presence Detectors

Sensor Lights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

868 MHz

Secure wireless protocol; no interference possible from permanent transmitters

WIRELESS

max. 100 m

ø 30 m

Wireless range: 100 m in open spaces; reliable wireless connection up to 30 m indoors

ON

1 2 3 4 5

32 addresses

32 possible addresses can be set with ease at 5-way DIP switches

4 channels

Remote control can be set to four different fixed addresses at one and the same time

Presence Control PRO IR Quattro

Transmitter

Presence Detector for Mounting to Ceilings



Presence Control PRO IR Quattro Impulser

EAN	white	4007841 592509
Dimensions (WxHxD)	120 x 120 x 71 mm	
Operating voltage	9-V block battery (lithium)	
Square detection zones	<ul style="list-style-type: none">- Presence 4 x 4 m max. (16 sq.m.)- Radially 5 x 5 m max. (25 sq.m.)- Tangentially 7 x 7 m max. (49 sq.m.)	
Recommended installation height	2.5 m – 3.5 m ceiling height	
Sensor system	13 detection levels, 1760 switching zones	
Twilight setting	2 – 2000 lux, ∞/daylight	
Time setting	1 min. – 15 min.	
IP rating	IP 20	
Protection class	II	
Temperature range	-20° to +50° C	
Operating frequency	868.3 MHz (ISM band)	
Transmitter range	up to 100 m in the open, 30 m all round indoors	
Transmitter power	less than 1000 µW	
Programming	at 5-way DIP switch, 32 possible addresses per channel	
Number of receivers	Any	
Housing	UV-resistant, paintable	
Accessories	- Guard cage EAN 4007841 003036	

The simplest answer to indoor lighting automation: the Presence Control PRO IR Quattro

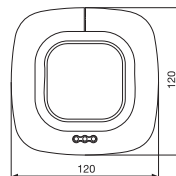
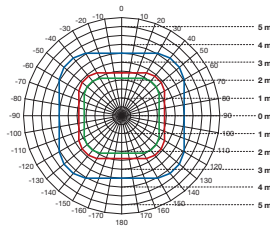
- 1760 switching zones for first-class detection quality
- Square detection zones for exact planning
- Precision, infinitely variable scalability of reach
- Fast installation, parameters quickly set

Together with the recessed FE 8200 receiver, this autonomous wireless version of the Presence Control IR Quattro is the fastest way of upgrading a room to perfectly automated lighting control. The battery-operated detectors are mounted below the ceiling without the need for wiring. The FE 8200 then receives the commands sent and switches light 'ON' and 'OFF' from switch box.

With 1760 switching zones, the IR Quattro guarantees precision detection of all movements. The unique, mechanically scalable reach setting can be infinitely varied for systematic detection zone adjustment: Even where entire systems are installed, individual zones can be clearly segregated.



Detection zone



Further product details:
Page 86

Transmitter

300° Wireless Motion Detector for Wall and Corner Mounting



Battery-operated sensor: the IS FS 300

- 300° angle of coverage
- Wireless surveillance of areas as large as 300 m²
- Wireless transmission of commands to each Impulser receiver

With a horizontal angle of coverage of 300° and vertical angle of coverage of 180°, the IS-FS 300 detects any movement in an area of 300 m². Transmitters with a reach of up to 100 metres in the open or 30 metres indoors report detected movement to any STEINEL Professional receiver from the Impulser family.



IS-FS 300

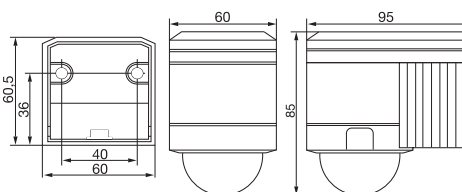
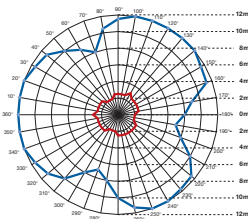
EAN	black	white
	4007841 704711	4007841 705213
Dimensions (WxHxD)	85 x 60 x 95 mm	
Operating voltage	9 x -V block battery* (alkaline) (life expectancy at least 12 months)**	
Detection reach	12 m max., electrically stabilised	
Detection angle	300° horizontally, 180° vertically	
Sensor system	10 detection levels, 720 switching zones	
Sensor turning range	± 80°	
Time setting	1 min. – 15 min.	
Twilight setting	2 – 2000 lux	
IP rating	IP 54	
Temperature range	-20° to +50° C	
Operating frequency	868.3 MHz (ISM band)	
Transmitter range	up to 100 m in the open, 30 m all round indoors	
Transmitter power	less than 1000 µW	
Programming	at 5-way DIP switch, 32 possible addresses per channel	
Number of receivers	Any	
Accessories	Corner wall mount EAN 4007841 630119 black EAN 4007841 630218 white	

* Depending on triggering frequency (frequency of motion detection)

** At temperatures constantly below -20° C, we recommend using 9-V lithium batteries



Detection zone



Motion Detectors

Presence Detectors

Sensor Lights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

RC 400

Transmitter

Wireless Handheld Transmitter



RC 400

EAN	black	4007841 704810
Dimensions (WxHxD)	107 x 40.5 x 20 mm	
Operating voltage	3 x 1.5-V battery, type AAA (life expectancy at least 12 months)	
Transmitter range	up to 100 m in the open, 30 m all round indoors	
Function	Switches permanently 'ON'/'OFF'	
IP rating	IP 20	
Operating frequency	868.3 MHz (ISM band)	
Transmitter power	less than 1000 µW	
Programming	at 5-way DIP switch, 32 possible addresses per channel	
Number of receivers	Any	

* Depending on use

Simply convenient: the RC 400

- Convenience for operating STEINEL Professional receivers (indoors/outdoors)
- Power supply: 3 x 1.5-V battery (not included)
- Switches permanently 'ON'/'OFF'

Using this 4-way remote control, you can operate any of our receivers practically and conveniently. Small and handy, it is ready for use at any time. Four channels are available that can be assigned in any way you choose.



Receiver

LED Floodlights with Integrated Wireless Receiver



XLed-FE 10, XLed-FE 25

EAN	XLed-FE 10 black XLed-FE 10 white XLed-FE 25 white XLed-FE 25 black	4007841 705619 4007841 705718 4007841 705916 4007841 705817
Dimensions (WxHxD)	XLed-FE 10 XLed-FE 25	205 x 200 x 220 mm 300 x 200 x 220 mm
Voltage	230 – 240 V/50 Hz	
IP rating	IP 44	
Protection class	I	
Temperature range	-20° to +50° C	
Lamp wattage	XLed-FE 10 XLed-FE 25	10 LED's, approx. 25 W 25 LED's, approx. 60 W
Life of LEDs	up to 50,000 hrs. (at 3 hrs./day, approx. 45 years)	
Switching capacity	- 800 W max. (resistive load, e.g. filament bulb) - 400 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - electronic ballasts, capacitive, e.g. low-energy bulbs, max. of 4 each, $C \leq 88 \mu F$	
Operating frequency	868.3 MHz (ISM band)	
Programming	As many as 8 different transmitters can be programmed at the press of a button	
Accessories	- Ground spike, silver, 365 x 136 x 80 mm EAN 4007841 654917	

Powerful LED floodlights XLed-FE 10, XLed-FE 25

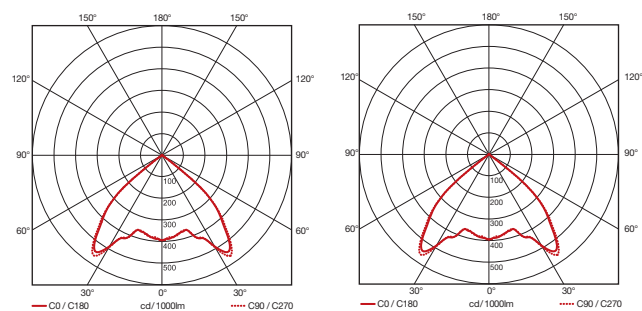
- Receives wireless signals from as many as 8 STEINEL Professional transmitters
- LED light head in flat design
- Tilting/turning reflector
- Integrated electronic ballasts
- Active Thermo-Control

The XLed-FE 10 and XLed-FE 25 models are LED floodlights that easily interconnect by wireless signal within the Impulser system. The enclosure can be turned through 270° and tilted through 200° for exact reach adjustment.



- 70% energy saving from LED technology
- Extremely long-life LED's

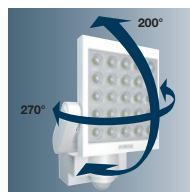
Light distribution curves for XLed FE 10, XLed FE 25



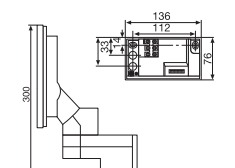
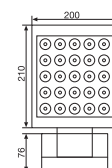
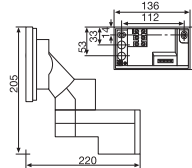
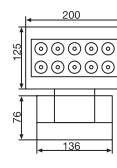
Accessories



Ground spike in silver



Aluminium light head:
flat design, adjusts in all
directions



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

HS-FE 150

Receiver

Wireless Halogen Floodlight with Receiver



Modern communication: the HS-FE 150:

- Receives wireless signals from as many as eight STEINEL Professional transmitters
- Housing in die-cast aluminium
- Floodlight housing tilts and turns
- Ceramic reflector

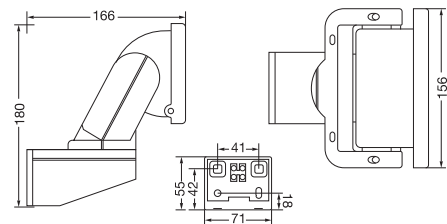
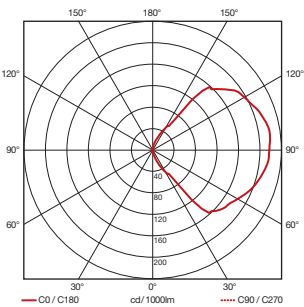
The HS-FE 150 is capable of receiving wireless signals from STEINEL receivers. Made of die-cast aluminium, the floodlight enclosure tilts and turns.



HS-FE 150

EAN	black 4007841 704919 white 4007841 705312
Dimensions (WxHxD)	180 x 156 x 166 mm
Voltage	230 – 240 V/50 Hz
IP rating	IP 44
Protection class	I
Temperature range	-20° to +50° C
Lamp wattage	150 W max./R7s (included) 125 W ECO linear halogen lamp
Switching capacity	- 800 W max. (resistive load, e.g. filament bulb) - 400 W max. (uncorrected, inductive, $\cos \varphi = 0.5$, e.g. fluorescent lamps) - electronic ballasts, capacitive, e.g. low-energy bulbs, 4 each max., $C \leq 88 \mu F$
Operating frequency	868.3 MHz (ISM band)
Programming	As many as 8 different addresses can be programmed at the press of a button
Accessories	- Corner wall mount (EWH 02) available EAN 4007841 630560 black EAN 4007841 630669 white

Light distribution curves for HS-FE 150



Receiver

Wireless Halogen Floodlight with Receiver



HS-FE 500

EAN	black	4007841 705015
	white	4007841 705411
Dimensions (WxHxD)	205 x 205 x 246 mm	
Voltage	230 – 240 V/50 Hz	
IP rating	IP 44	
Protection class	I	
Temperature range	-20° to +50° C	
Lamp wattage	500 W max./R7s (included) 400 W ECO linear halogen lamp	
Operating frequency	868.3 MHz (ISM band)	
Programming	As many as 8 different addresses can be programmed at the press of a button	

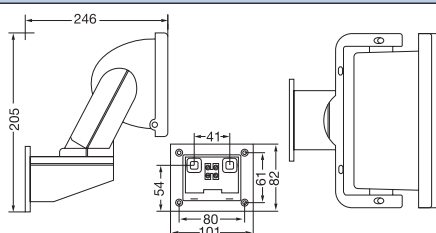
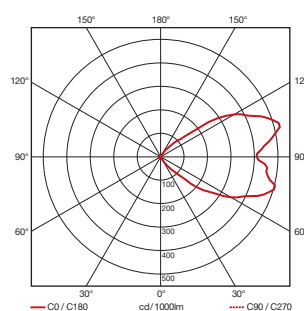
A powerful communicator: the HS-FE 500

- Receives wireless signals from as many as eight STEINEL Professional transmitters
- Housing in die-cast aluminium
- Floodlight housing tilts and turns

The HS-FE 500 is rated for 500 watts. This model also receives STEINEL Professional transmitters and can be adjusted both horizontally and vertically.



Light distribution curves for HS-FE 500



Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

FE 8100, FE 8200

Receiver

Wireless Receivers



FE 8100/FE 8200

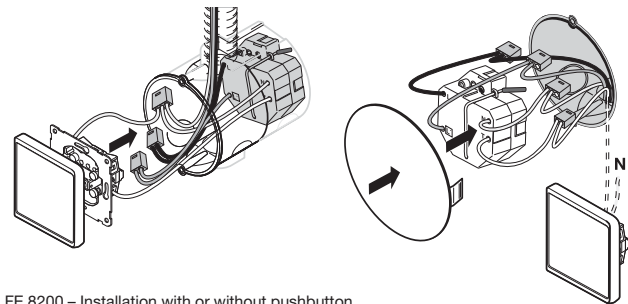
EAN	FE 8100 black	4007841 705114
	FE 8100 white	4007841 705510
	FE 8200 white	4007841 000455
Dimensions (WxHxD)	FE 8100	110 x 75.5 x 43 mm
	FE 8200	51 x 51 x 24.5 mm
Voltage	230 – 240 V/50 Hz	
Connection lead	FE 8200	1 x N, 1 x L, 1 x L', 1 x button
IP rating	FE 8100	IP 54
	FE 8200	IP 20
Protection class	II	
Temperature range	-20° to +50° C	
Switching capacity	- 1000 W max. (resistive load, e.g. filament bulb) - 500 W max. (uncorrected, inductive, cos φ = 0.5, e.g. fluorescent lamps)	
Operating frequency	868.3 MHz (ISM band)	
Programming	As many as 8 different addresses can be programmed at the press of a button	

FE 8100 and FE 8200

- Receives wireless signals from as many as eight STEINEL Impulser transmitters
- Automatically switches loads 'ON'/'OFF'
- Indoors/outdoors
- FE 8100 for surface mounting
- FE 8200 for installing in flush-mounting boxes

The FE 8100 and FE 8200 can receive wireless signals from STEINEL Professional wireless transmitters with up to 8 different addresses. To do this, the relevant transmitters must be assigned to them first.

The FE 8200 is a wireless receiver for installing in flush-mounting boxes. On the practical side, it has a potentiometer for setting the operating mode (normal and pulse mode), a button for the programming mode and an LED.

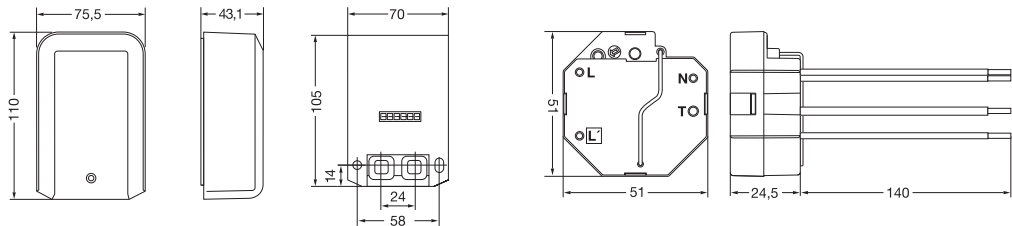


FE 8200 – Installation with or without pushbutton



FE 8100

FE 8200



Transceiver

Wireless Module for sensIQ and RS PRO 1000 and 2000



MF1		Motion Detectors
EAN	white 4007841 736712	
Dimensions (WxHxD)	75 x 35 x 16 mm	Presence Detectors
Transmitter range	up to 100 m in the open, 30 m all round indoors	
Operating frequency	868.3 MHz (ISM band)	
Transmitter power	less than 1000 µW	
Programming	at 5-way DIP switch, 32 possible addresses	
Number of receivers	Any	

Wireless module MF1

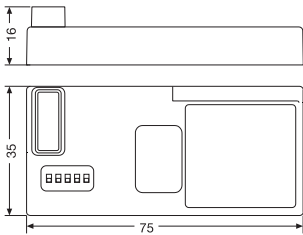
- For conveniently operating STEINEL Impulser receivers and transmitters (indoors/outdoors)
- Bidirectional (transmitter/receiver)
- For sensIQ, RS PRO 1000/2000

Save yourself the need for permanently installed switching cables. Wireless modules can be used for reliably inter-connecting motion detectors and SensorLights to create switching groups on the basis of bidirectional wireless links.

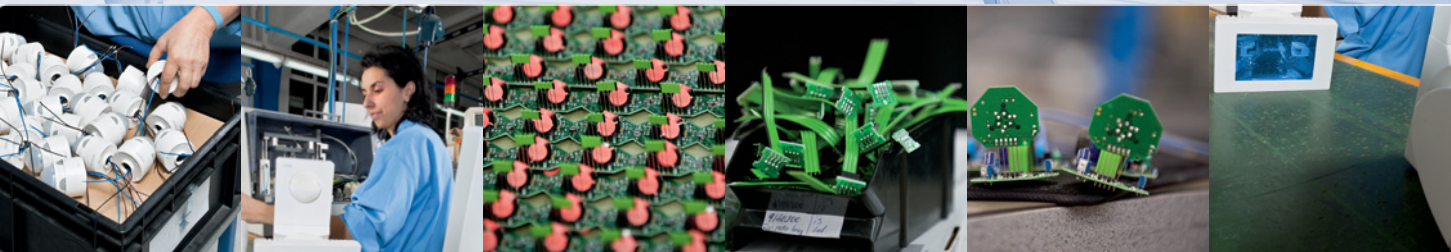
FUNCTIONAL
36 month
WARRANTY

STEINEL
German
Quality

CE



Further product details:
sensIQ page 34
RS PRO 1000/2000
page 123



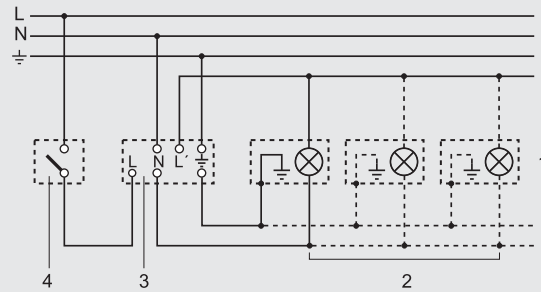


Support Service

Wiring diagrams, IP class, IK class, approval marks
Hot line for urgent matters +49 (0) 5248 448-188

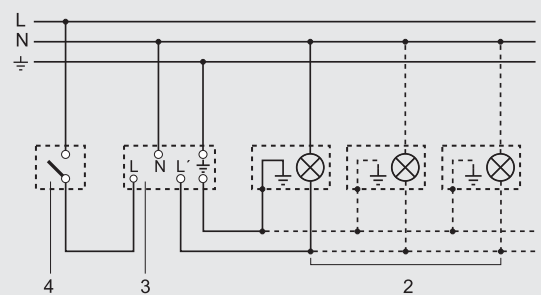
Wiring Diagrams for Motion Detectors

**Light without
existing neutral conductor**



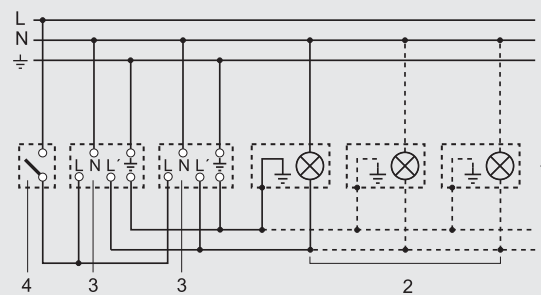
- ❶ e.g. 1 – 4 x 100 W filament bulbs
- ❷ Load, lighting
- ❸ Sensor connection terminals
- ❹ Indoor switch

**Light with
existing neutral conductor**



- ❶ e.g. 1 – 4 x 100 W filament bulbs
- ❷ Load, lighting
- ❸ Sensor connection terminals
- ❹ Indoor switch

**Several sensors
connected in parallel**



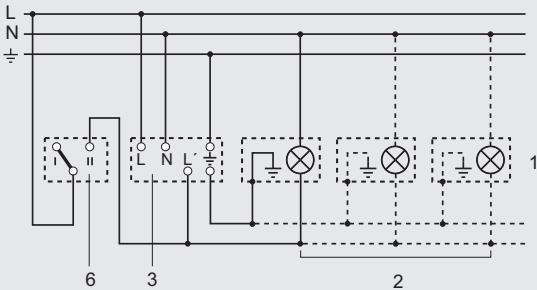
- ❶ e.g. 1 – 4 x 100 W filament bulbs
- ❷ Load, lighting
- ❸ Sensor connection terminals
- ❹ Indoor switch

PLANNING

Connection by means of a two-way switch for manual override and automatic operation

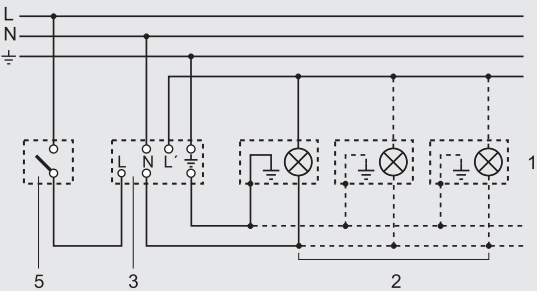
Setting I:
Automatic operation
Setting II:
Manual operation, light 'ON' permanently

Note: The system cannot be switched 'OFF', it is only possible to select operation at setting I or II.



- ❶ e.g. 1–4 x 100 W filament bulbs
- ❷ Load, lighting
- ❸ Sensor connection terminals
- ❹ Indoor double-throw switch, automatic, permanent light

Connection using two-circuit single-interruption switches for manual and automatic operation



- ❶ e.g. 1–4 x 100 W filament bulbs
- ❷ Load, lighting
- ❸ Sensor connection terminals
- ❹ Indoor two-circuit single interruption switch, manual, automatic

Motion Detectors

Presence Detectors

SensorLights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

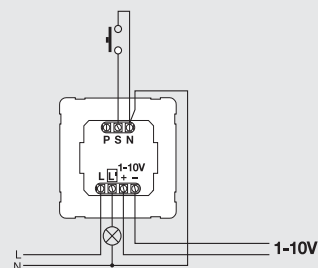
Wiring Diagrams for Presence Detectors

Interconnecting master/master and master/slave

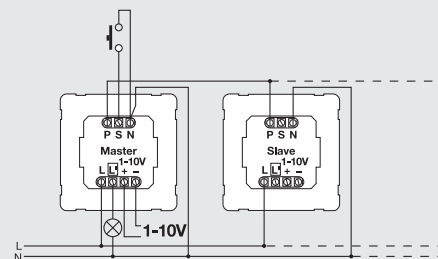
The presence detectors provide the option of interconnecting master/master and master/slave. In an interconnected master/master configuration, the detection zone is extended by interconnected detectors with each switching its own load in line with the specific settings of each and every master.

The slaves in an interconnected master/slave configuration merely extend the detection zone and report the presence of persons to the master. Only the master switches the connected load in line with its settings.

DIM detector

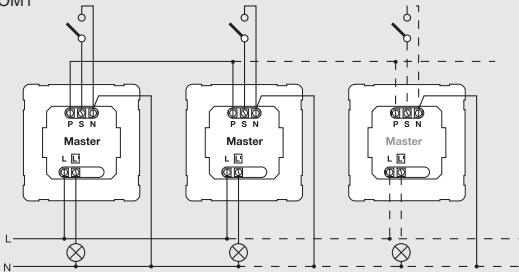


DIM detector with slave

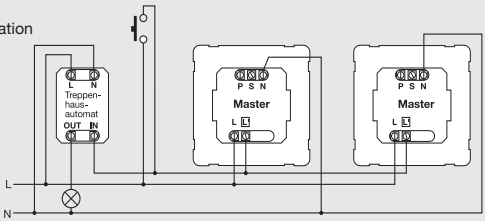


PLANNING

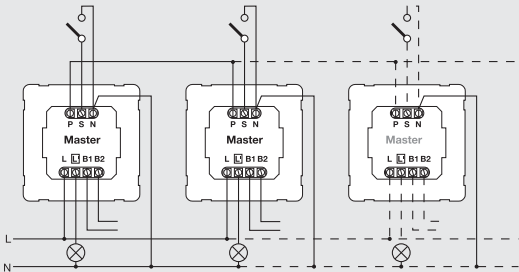
Master/master COM1



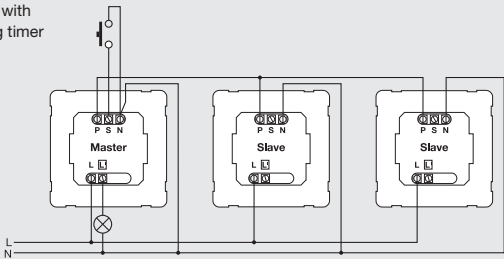
2 detectors linked with external
stairwell lighting timer
Old buildings/
building modernisation



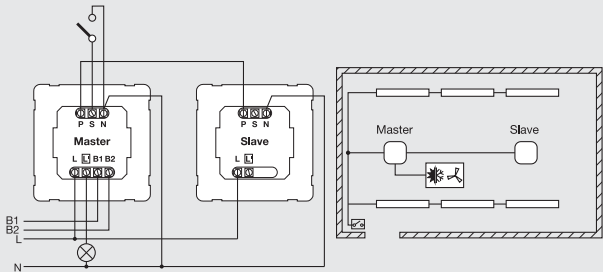
Master/master
COM1/COM2



Detector linked with
stairwell lighting timer



Master-slave



Motion Detectors

Presence Detectors

SensorLights

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Floodlights

Wireless Sensor Systems

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General Information

IP protection rating

The IP code classifies the level of protection provided by enclosures and covers used for protecting electrical equipment.

The IP code is defined under IEC 529, EN 60529, DIN VDE 0470-1 and NF C 20-010.

The protection ratings are defined by the letters IP (International Protection) followed by two digits. This means that the full protection rating consists of the two letters and the digits indicating the level of protection.



1st digit

Protection of equipment against the ingress of solid, foreign objects and also protection of persons against contact with hazardous parts.




2nd digit

Protection of equipment against the harmful ingress of water.

Where there is no protection rating – with regard to one of the criteria – the digit is replaced with the letter X, e.g. IP X4 or IP 6X.

1st digit	Protection against ingress of foreign objects	Protection against contact/application
0	Equipment provides no protection against ingress of solid, foreign objects.	No particular personal protection against accidental contact with live and/or moving parts. In enclosures with no access.
1	Protection against ingress of solid, foreign objects in a diameter > 50 mm.	Protection against accidental contact by large surfaces of the body (back of the hand) with live and/or moving parts. Closed areas only accessible to authorised and trained personnel.
2	Protection against ingress of solid, foreign objects in a diameter > 12.5 mm.	Protection against finger contact with live and/or internal moving parts. Specific accessible areas.
3	Protection against ingress of solid, foreign objects in a diameter > 2.5 mm.	Protection against contact between live and/or internal moving parts and tools, wires or similar objects in a thickness of > 2,5 mm. Generally accessible parts.
4	Protection against ingress of solid, foreign objects in a diameter > 1 mm.	Protection against contact between live and/or internal moving parts and tools, wires or similar objects in a thickness of > 1 mm. Generally accessible parts.
5 	Protection against harmful, internal dust deposits. Ingress of dust is not entirely prevented. The quantity of dust entering must not interfere with operation (dust-protected).	Complete protection against contact with live and/or internal moving parts. Areas exposed to short-term high dust deposits.
6 	Protection against ingress of dust (dust-tight).	Complete protection against contact with live and/or internal moving parts. Generally accessible areas.

SERVICE

2nd digit	Protection against ingress of water	Application
0	No particular protection.	In dry areas.
1	Protection against vertically falling drops of water (protection against dripping water). Shall have no harmful effect.	In areas exposed to moisture with component in pre-defined vertical position (e.g. condensation water).
2	Protection against vertically falling drops of water (protection against dripping water). Dripping water falling at an angle shall have no harmful effect on equipment (enclosure) tilted at an angle of up to 15° from its normal position.	In areas exposed with component not positioned exactly vertically (e.g. condensation water).
3 	Protection against water falling at any angle up to 60° from the vertical. Shall have no harmful effect (protection against spraying water.)	Areas exposed to rain and not splashing water.
4 	Protection against water splashing against equipment (enclosure) from any direction. Shall have no harmful effect (protection against spraying water).	Areas exposed to rain and splashing water (e.g. areas exposed to passing vehicles).
5 	Protection against water projected by a nozzle against equipment (enclosure) from any direction. Shall have no harmful effect (protection against water jets).	Areas exposed to moderately powerful water jets.
6	Protection against heavy sea or powerful jets of water. Water in harmful quantities must not enter the equipment (enclosure) (protection against floodwater)	Areas exposed to heavy wash and floodwater (e.g. jetties).
7	Protection against water when equipment (housing) is immersed in water under defined conditions of pressure and time. Water must not enter in harmful quantities (immersion).	Areas washed over temporarily or covered with snow for a prolonged period.
8	Equipment (housing) is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer (submersion). However, the conditions must not be any more severe than those for digit 7.	In submerged function.

Motion Detectors

Presence Detectors

SensorLights

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Wireless Sensor Systems

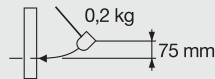
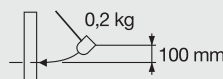
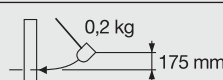
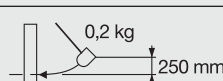
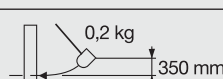
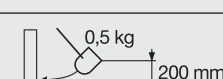
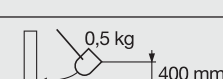
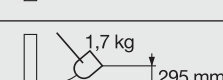
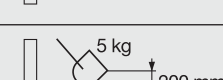
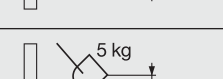
Support, Service

IK protection code as defined in EN 501 02

The degree of protection provided by enclosures for electrical equipment against external mechanical impacts is defined by the IK code under standard EN 50102 – VDE 0470 Part 100 and EN 50102 – VDE 0470 Part 100.

IK 0X

IK = Code letters (international mechanical protection)
0X = IK class of impact protection (from 00 to 10)

IK	Test	Energy in Joules
IK 00		0
IK 01		0.15
IK 02		0.2
IK 03		0.35
IK 04		0.5
IK 05		0.7
IK 06		1
IK 07		2
IK 08		5
IK 09		10
IK 10		20

SERVICE

Marks of conformity:



VDE label

For electrotechnical products, including products within the meaning of the German Act on Equipment and Product Safety (GPSG) and medical products within the meaning of the German Medical Products Act (MPG). The VDE label indicates conformity to VDE provisions or European or internationally harmonised standards and provides confirmation that the protection requirements of the pertinent guidelines are met. The VDE label shows that the product is safe in terms of electrical, mechanical, thermal, toxic, radiological and other risk.



VDE-GS label

For technical work equipment and ready-to-use items of daily use within the meaning of the GPSG (optionally instead of VDE label for these products). If products are technical work equipment or ready-to-use items of daily use within the meaning of the German Act on Equipment and Product Safety, you can also use the VDE-GS label.



VDE-EMC mark

For equipment conforming to the standards on electromagnetic compatibility. The VDE-EMC label expresses a product's conformity with the applicable standards on the electromagnetic compatibility of products. However, this mark also signals the reliable operation of your product in an electromagnetic environment. As the requirements on issuing the label automatically and unreservedly cover satisfaction of the relevant standards.



ENEC label from VDE

For products meeting harmonised certification procedures. The European standards specified in the ENEC Agreement provide the basis for testing. Products (these currently being lights, light components, low-energy lamps, IT equipment, transformers, appliance switches, electrical regulators and control devices, terminals, appliance couplers, some types of capacitor and radio interference suppression components) tested on this basis are allowed to carry VDE's ENEC label. Approval from another body involved in the European certification procedure is not necessary.



VDE cable marking

VDE cable marking applies to cables, leads and wiring conduits and trunkings.



CE label

The manufacturer documents and declares in its sole responsibility that the product marked satisfies the basic requirements of EU directives. This label is not a mark of tested safety and quality but is directed towards the authority supervising the market.



F label

Information showing that lights may be mounted on normally flammable surfaces.

Protection classes



Protection class I

In the case of lights provided with class I protection, the protection aim is achieved by insulating live parts and connecting contactable metal parts to the protective-earth conductor. The protective-earth conductor connection terminal is marked ⊕.



Protection class II

In the case of lights provided with class II protection, electrical safety is ensured by means of double insulation.



Protection class III

In the case of light provided with class III protection, protection is based on safety extra-low voltage (SELV).

Glow-wire test



Glow-wire test

Lights carrying this mark have had their external parts tested for resistance to fire and combustion with a 850°C wire to European standard.

Motion Detectors

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Sensor Lights

Sensor-Switched Floodlights

Wireless Sensor Systems

Support, Service

Legal note

Photography

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www.cp-imac.de

K. Ortmeier, Hamburg
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atelier ww, Zürich
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Fotolia
iStock
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SERVICE

STEINEL Vertrieb GmbH
Dieselstrasse 80-84
D-33442 Herzebrock-Clarholz
Germany

Telephone +49 (0)5245 448 - 0
Fax +49 (0)5245 448 - 197

www.steinell.de