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Highlights for People of Today

Steinel. The original. Products for People and the Environment

Intelligent energy saving. It was with this vision that STEINEL invented the world’s first SensorLight over 20 years ago. A milestone in convenience, safety, security and saving energy. As a result, everyone today can help reduce CO₂ emissions and slow down climate change. Yet with intelligent lighting control from STEINEL, you’re not only doing the environment a favour: Using less energy saves you money and light that switches ‘ON’ automatically brings significantly more convenience to everyday life. This way, people and the environment benefit from our idea. Treat yourself to the original! Because “made by STEINEL” is synonymous with practical functionality, quality and long life.

As brand and technology leader, we develop and manufacture products of world renown at five locations in Europe. In German Quality.

Our strength – the benefits to you:

- In-house research and development with toolmaking and prototype construction.
- In-house production of electronics, plastics and injection mouldings.
- Quality management system certified to DIN EN ISO 9001 and products that carry all of the relevant test marks.
Technology for life
We develop products that benefit people. This mission statement also includes our ecological responsibility. For instance, intelligent STEINEL sensor technology ensures maximum energy efficiency in lighting applications, significantly easing the strain on the environment. And we also pay strict attention to ecological compatibility in developing and manufacturing our products. To this end, we have established a uniform standard at all STEINEL sites across the globe incorporating all relevant national and international guidelines. Among other aspects, this also implements the comprehensive RoHS guideline on the restriction of the use of certain hazardous substances in electrical and electronic equipment. As part of its product responsibility, STEINEL is also involved in implementing the German Electrical and Electronic Equipment Act (ElektroG).

Quality
For Steinel, German quality is a challenge and a commitment. We meet this commitment with expertise from over 50 years of manufacturing practice and our own factories in Europe. With every day that passes – with every item we produce. Quality made in Europe. This is why it goes without saying that our products carry a 36-month guarantee on proper working order. And, of course, STEINEL has been awarded certification under the current standard on quality management.

Innovation
Our strength is innovation. We not only invented the sensor light but continue to play a key part in constantly improving its technology. Watt-o-matic, mini-sensor, the HF-sensor system and the use of highly efficient LED technology are just some of the forward-pointing innovations that distinguish STEINEL as a pace-setter in energy-saving lighting concepts.

In-house development and design ensure that we will remain technology and brand leader in energy-efficient lighting concepts in the future too.

Service
As a quality-focused brand manufacturer, we attach importance to first-class service. We will be pleased to provide you with help and advice on any matter concerning sensor technology. Also typical STEINEL is the guaranteed availability of replacement glass shades over a period of 5 years. Our own merchandisers and trained sales representatives provide optimum support at the point of sale, for an effective replacement-part and repair service that guarantees maximum customer satisfaction. A hot line is available for urgent matters (+49 (0)5245 448 188).

Sustainability
We take our responsibility seriously. For STEINEL, adhering to European legislation and work regulations at all of our factories for the well-being and protection of staff and the environment goes without saying. On top of this, we keep transport distances short to reduce CO₂ emissions and ensure that on reaching the end of their useful life products are disposed of in a way that is kind on the environment. Plastics are recycled wherever possible. Not least, we use plastics and components that last for a long product life to ease the strain on the environment.
Light only when it’s needed.

About 19% of the energy used world-wide goes on lighting. This equates to an annual demand of about 2,650 terrawatt-hours. Much of this gigantic amount is wasted - partly by leaving lights switched ‘ON’ unnecessarily.

With sensor technology from STEINEL, wasting this resource is a thing of the past. Light comes ‘ON’ automatically when you enter a room. And switches ‘OFF’ again when you leave. What’s more, using low-energy lamps with our sensor lights is not a problem either. This way, lighting from STEINEL helps to save huge quantities of energy, CO₂ emission and costs.

Besides this: Lights that switch ‘ON’ automatically enhance everyday convenience, safety and security. That’s “intelligent energy saving”.

www.energieclevernutzen.de

You will also find a program on our website that can calculate energy savings exactly.

The optimum solution for any situation

Energy-saving sensor technology from STEINEL can be used wherever light is needed. Whether indoors or out, spot lighting or illuminating large spaces: Using the sensor products from the brand and technology leader, environment-friendly lighting is achievable here and now. This way, everyone can help to make a better future.
Light ‘ON’. Light ‘OFF’. Sensor-controlled

Automatic lights are created by using motion sensors. This is where two different technologies are employed: HF-sensors (see page 76) are the ideal solution for indoors. Outdoors, only passive infrared (PIR) sensors are used.

Heat radiation as a remote controller

The heart of a PIR sensor system is what’s called a pyro-sensor. This electronic component responds to any fluctuation in incident infrared heat radiation with a change in voltage. As all individuals give off infrared radiation through body heat, they automatically change the thermal image detected by the sensor on entering the system’s field of vision. The sudden rise in voltage this causes is processed by the electronics for switching ‘ON’ light.

For sensor systems to respond to movements within the detection zone, they are equipped with a segment lens. This divides the pyro-detector’s field of vision into active and passive zones (zones not visible to the sensor). When a heat source crosses a zone boundary, the IR radiation received changes for the sensor which then emits a signal.

Multi-sensor technology

STEINEL has developed the multi-sensor system for applications placing particularly exacting demands on the size of the detection zone. Within the system, two or even three pyro-sensors are positioned at a specific angle to each other that adds their detection zones together.

Heat radiated from the human body

Any object with a temperature above absolute zero (−273° C) gives off electromagnetic radiation. Given the temperature range of the human body, this radiation lies in the infrared portion of the spectrum. It is used by infrared sensors to detect people moving.

The segment lens

focuses IR radiation from its surroundings onto the sensor and divides the areas covered in active and passive zones (zones masked out for the sensor). The boundary between these zones forms what is called a switching zone as the sensor registers any person or object crossing this boundary as a fluctuation in radiation and emits a signal.

The segment lenses used are simple Fresnel lenses or STEINEL’s high-performance multi-lens.

Segment lenses

STEINEL multi-lens technology

Multi-lens technology (MLT) provides uninterrupted coverage of a semi-spherical detection zone. This makes it the ideal lens system for motion detectors with double or triple sensors.

Fresnel lenses

Fresnel lenses provide the simplest means of segmenting the detection zone of an infrared detector. A system of individual lenses is arranged here in the form of an arc. With a maximum coverage angle of 180°, they can watch over an area of up to 225 m². A second optical window below the main detection zone makes it virtually impossible to creep past underneath the sensors without being detected.

Reach

STEINEL sensors generally provide a max. reach of 12 m that may be shorter when walking in a radial direction (towards the sensor).
Mini-sensor: Elegant, efficient and intelligent

Developing the mini-sensor, STEINEL has adopted a whole new approach to creating PIR sensor systems. A spherical segmented mirror guides ambient IR radiation onto a state-of-the-art and extremely efficient IR sensor chip. This configuration not only makes it possible to keep the system extremely small, it also permits the reliable detection of movement in a full 360° circle.

The new operating concept

To permit rapid, intuitive adjustability of the sensor electronics to individual user needs, the entire sensor module can be taken out of the light, set in your own time, plugged back in again and securely locked in place. While settings are being made, the light switches itself ‘ON’ as soon as the sensor is removed. This is practical at twilight or during the night. All of the information you need to know is printed in the sensor module itself, obviating the need for any operating instructions.

Plug and save

The mini-sensor module plugs in and can be removed for conveniently setting the light’s functions.

The function programmes

1. Standard programme (pre-set) for light bulbs: Light soft start/soft end, no basic brightness at dusk.
2. Comfort programme for light bulbs: Light soft start/soft end, 25% basic brightness at dusk.
3. Comfort economy programme for light bulbs: Light soft start/soft end, 25% basic brightness up to midnight (the middle of the night is determined by the solar cycle measured).

Innovative and efficient

The mini-sensor’s outstanding properties are achieved by the spherical segmented mirror and the state-of-the-art quadruple pyro-sensor.

Setting capabilities

Adjustment range

STEINEL sensors with a coverage angle of less than 180° are equipped with lenses that can be tilted and turned for exact adjustment to the situation at the point of installation.

Shrouds

All sensors come with shrouds that can be cut to size for limiting detection zones (e.g. next to neighbouring property / roads).

Twilight setting

A control dial can be used for infinitely varying brightness threshold from 2 lux (night) to 2000 lux (day). This prevents light from coming ‘ON’ unnecessarily during the day.

Time setting

Adjustable to any period from 5 sec. to 15 min. to suit specific needs. After detecting movement, the light stays ‘ON’ for the period selected.

Watt-o-matic (brightness control)

Provides the capability of adjusting basic brightness from 0 – 50% of SensorLight output. When movement is detected, the SensorLight switches to full power. Shows the way from a distance and frightens off uninvited guests.

Soft light start and soft end

Elegantly increases output from the lamp in the SensorLight to 100% power. That’s kind on the eye and helps to prolong lamp life!

Manual override

Many of STEINEL’s SensorLights can be set to stay ‘ON’ permanently for 4 hours by operating a switch twice. Afterwards, the light automatically returns to sensor mode.
Motion Detectors for Outdoors

Switches that can see
Steinel infrared sensors respond to heat radiated from moving persons and use this ability, for example, to switch a light ‘ON’ and, after a selectable period of time, ‘OFF’ again.

- STEINEL infrared sensors also bring modern-day convenience to lights that are already installed.
- Generous reach and coverage angles of 130° to 360° for a whole range of applications.
- Sneak-by guard for complete surveillance.
- Reliable operation, even in adverse weather conditions.
- Twilight threshold and light ‘ON’ duration can be set to meet individual needs.
- Easy installation, even on internal and external corners.
- Ideal too for indoor areas, such as corridors and basement rooms.
### Designation IS 130-2 IS 140-2

- **Angle of coverage:** 130° 140°
- **Reach:** 12 m max. 14 m max.
- **For areas as large as:** 150 m² 239 m²

### Designation IS 180-2 IS NM 360

- **Angle of coverage:** 180° 360°
- **Reach:** 12 m max. 8 m all round
- **For areas as large as:** 200 m² 240 m²

### Designation IS 240

- **Angle of coverage:** 240°
- **Reach:** 12 m max.
- **For areas as large as:** 230 m²

### Designation IS 360 D

- **Angle of coverage:** 360°
- **Reach:** 12 m max.
- **For areas as large as:** 350 m²

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**For walls**

![Diagram of motion detector for walls]

**For ceilings**

![Diagram of motion detector for ceilings]

**For house corners**

![Diagram of motion detector for house corners]
**IS 130-2**

Facelift for the top-selling sensor.

Infrared sensor, ideal for watching over areas in front of the home and in driveways.

The IS 130-2 is the attractively priced gateway to the world of motion-activated switching that offers tried and proven technology for outstanding detection quality in a new design. It reliably watches over areas of up to 150 m².

**Setting options**
- The tilting and swivelling multi-lens permits exact adjustment of the detection zone to suit individual requirements.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

**Installation advantages**
- Clearly designed terminal compartment for fast, easy wiring.

---

**IS 140-2**

The classic sensor – all new.

Offering even more horizontal and vertical adjustment angles, more reach and more detection precision, the IS 140-2 reliably watches over any area you want it to. Better than ever, its optical system with precision, spherical lenses detects people with even greater accuracy and provides a uniquely constant reach.

**Setting options**
- Swivelling and tilting optical system for exact adjustment of the detection zone.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

**Installation advantages**
- Clearly designed terminal compartment for fast, easy wiring.
- Corner wall mount available (outside corners).

---

**Main features at a glance**

- **Detection zone**: Perfect detection with sneak-by guard
- **Detection angle**: 180° horizontally, 90° vertically
- **Reach**: 12 m max.
- **Twilight setting**: 2 – 2000 lux
- **Time setting**: 8 sec. – 35 min.
- **IP rating**: IP 54
- **Safety class**: II

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**IS 130-2**

- **EAN**: 4007841...
- **Dimensions (HxWxD)**: 130 x 78 x 84 mm
- **Output**: 600 W max. (resistive load, e.g. filament bulb)
  - 500 W max. (uncorrected, inductive, \(\cos \varphi = 0.5\), e.g. fluorescent lamp), electronic ballasts, capacitive, e.g. low-energy lamp, 6 each max., \(C \leq 132 \mu F\)
- **Voltage**: 230 – 240 V/50 Hz
- **Adjustment range**: 330° with sneak-by-guard
- **Reach**: 12 m max.
- **Twilight setting**: 2 – 2000 lux
- **Time setting**: 8 sec. – 35 min.
- **IP rating**: IP 54
- **Safety class**: II
- **Optional accessories**: Corner wall mount 07 for installation on external corners

---

**IS 140-2**

- **EAN**: 4007841...
- **Dimensions (HxWxD)**: 70 x 88 x 95 mm
- **Output**: 1000 W max. (resistive load, e.g. filament bulb)
  - 500 W max. (uncorrected, inductive, \(\cos \varphi = 0.5\), e.g. fluorescent lamp), electronic ballasts, capacitive, e.g. low-energy lamp, 6 each max., \(C \leq 132 \mu F\)
- **Voltage**: 230 – 240 V/50 Hz
- **Adjustment range**: 180° horizontally, 90° vertically
- **Reach**: 14 m max. (temperature-stabilised)
- **Twilight setting**: 2 – 2000 lux
- **Time setting**: 8 sec. – 35 min.
- **IP rating**: IP 54
- **Safety class**: II
- **Corner wall mount**: 07 for installation on external corners

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**Infrared Sensors for Wall Mounting**

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**Motion Detectors for Outdoors**
Motion Detectors for Outdoors

Main features at a glance

- Perfect coverage with sneak-by guard
- Coverage angle reduction
- Setting functions
- Manual override 2 x OFF/ON

Intelligence and aesthetics perfectly combined

Outstanding functionality in a unique, new design. There’s no better way to describe this visually discreet yet inspiring different sensor. Its concealed controls permit an almost new kind of functional flexibility. There are 4 sensor and NightMatic combinations to choose from for controlling light just as you please.

Setting options

- Detection zone of motion detector can be limited using the shrouds provided.
- Easy, convenient selection of light ‘ON’ time, twilight threshold and programmes on removable sensor module.
- 4 function programmes geared to practical requirements.

IS NM 360

EAN 4007841...

Dimensions (HxWxD) 114 x 100 x 58 mm

External switching capacity 1000 W max. (resistive load, e.g. filament bulb)
500 W max. (uncorrected, inductive, \( \cos \varphi = 0.5 \), e.g. fluorescent lamp)
electronic ballasts, capacitive, e.g. low-energy lamp, 6 each max., \( C < 132 \mu F \)

Voltage 230 – 240 V/50 Hz

Detection angle 360° with sneak-by guard

Reach 8 m all round (mounted at a height of 1.75 – 2 m)

Twilight setting 2 – 2000 lux

Time setting 5 sec. – 15 min.

Manual override selectable 4 h

IP rating IP 54

Safety class II

Perfect coverage with sneak-by guard

Coverage angle reduction

Setting functions

Manual override 2 x OFF/ON

Outdoor lighting

Intelligent control

LED technology

NightMatic

Wireless

IS NM 360

1. Sensor mode only
2. Approx. 2 hours of constant light in the evening – light only comes ‘ON’ after then in response to movement
3. Approx. 2 hours of constant light in the evening and morning, with light only coming ‘ON’ between then in response to movement
4. Constant light up to midnight – light only comes ‘ON’ after then in response to movement

Sensor

1/2

Sensor

Sensor

1/2

Sensor

1/2

Sensor

1/2
IS 180-2

Infrared wall sensor in slimline stylish design, ideal for watching over the fronts of large homes.

The IS 180-2 combines modern, sleek design with state-of-the-art sensor technology. Two highly sensitive infrared detectors positioned at a specific angle to each other provide reliable, uninterrupted coverage of areas as large as 200 m².

**Setting options**
- Reach can be set to a maximum of 12 m or 5 m by turning the multi-lens.
- Detection zone can be limited by fitting the supplied shrouds.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

**Installation advantages**
- Clearly designed terminal compartment for fast, easy wiring.

**Main features at a glance**
- 2 basic reach settings possible
- Multi-lens technology for perfect detection
- Reducing coverage angle
- Setting functions

**Motion Detectors for Wall Mounting**

**IS 240 DUO**

Infrared wall sensor, ideal for watching over large areas as well as external corners.

The IS 240 DUO is equipped with two highly sensitive infrared detectors positioned at a specific angle to each other and reliably watches over every inch of areas as large as 230 m². Mounted on external corners, it watches over two house walls, saving the need for a second sensor.

**Setting options**
- Detection zone can be limited by fitting the supplied shrouds.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

**Installation advantages**
- Clearly designed terminal compartment for fast, easy wiring.

**Main features at a glance**
- 2 basic reach settings possible
- Multi-lens technology for perfect detection
- Coverage angle reduction
- Setting functions

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Table:

<table>
<thead>
<tr>
<th>IS 180-2</th>
<th>IS 240 DUO</th>
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<tbody>
<tr>
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<td>EAN 4007841...</td>
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<tr>
<td>Dimensions (HxWxD)</td>
<td>Dimensions (HxWxD)</td>
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<tr>
<td>120 x 76 x 56 mm</td>
<td>90 x 60 x 100 mm</td>
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<tr>
<td>Output</td>
<td>Output</td>
</tr>
<tr>
<td>1000 W max. (resistive load, e.g. filament bulb) 500 W max. (uncorrected, inductive, cos ϕ = 0.5, e.g. fluorescent lamp) electronic ballasts, capacitive, e.g. low-energy lamp</td>
<td>1000 W max. (resistive load, e.g. filament bulb) 500 W max. (uncorrected, inductive, cos ϕ = 0.5, e.g. fluorescent lamp) electronic ballasts, capacitive, e.g. low-energy lamp</td>
</tr>
<tr>
<td>Voltage</td>
<td>Voltage</td>
</tr>
<tr>
<td>230 – 240 V/50 Hz</td>
<td>230 – 240 V/50 Hz</td>
</tr>
<tr>
<td>Detection angle</td>
<td>Detection angle</td>
</tr>
<tr>
<td>180° with 90° angle of aperture</td>
<td>240° with 180° angle of aperture</td>
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<tr>
<td>Reach</td>
<td>Reach</td>
</tr>
<tr>
<td>± 80° precision adjustment of sensor housing</td>
<td>± 80° precision adjustment of sensor housing</td>
</tr>
<tr>
<td>Twilight setting</td>
<td>Twilight setting</td>
</tr>
<tr>
<td>± 80° precision adjustment of sensor housing</td>
<td>2 – 2000 lux</td>
</tr>
<tr>
<td>Time setting</td>
<td>Time setting</td>
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<tr>
<td>10 sec. – 15 min.</td>
<td>10 sec. – 15 min.</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP rating</td>
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<tr>
<td>IP 54</td>
<td>IP 54</td>
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<tr>
<td>Safety class</td>
<td>Safety class</td>
</tr>
<tr>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>Accessories</td>
<td>Optional accessories</td>
</tr>
<tr>
<td>Including corner wall mount for mounting on external and internal corners</td>
<td>Corner wall mount 01 for installation on external corners</td>
</tr>
</tbody>
</table>

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**IS 180-2**

Arranged in segments, the sensor lens is visibly divided into two detection zones. Two basic reach settings of 12 m or 5 m max. can be preselected simply by turning the multi-lens.
**IS 360 D TRIO**

Infrared ceiling sensor, ideal for uninterrupted, all-round detection under ceilings, porches, carports, overhanging roofs or balconies.

The IS 360 D TRIO is equipped with three highly sensitive infrared detectors positioned a specific angle to each other to provide reliable, uninterrupted all-round protection of areas as large as 350 m² beneath it.

**Setting options**
- Detection zone can be limited by fitting the supplied shrouds.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

**Installation advantages**
- Clearly designed terminal compartment for fast, easy wiring.

---

**IS 1**

Costs less than most people think.

Perfected technology and upmarket design needn’t cost a fortune. The latest case in point: The IS 1 provides outstanding value for money that more than meets the challenges in this segment.

**Setting options**
- The tilting and swivelling sensor lens permits exact adjustment of the detection zone to suit individual requirements.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

**Installation advantages**
- Clearly designed terminal compartment for fast, easy wiring.
- Can be mounted to walls and ceilings.
- Tilts and turns.

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### Main features at a glance

**IS 360 D TRIO**

<table>
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<td>Dimensions (HxWxD)</td>
<td>120 x 120 x 120 mm</td>
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<tr>
<td>Output</td>
<td>1000 W max. (resistive load, e.g. filament bulb)</td>
<td>500 W max. (uncorrected, inductive, $\cos \phi = 0.5$, e.g. fluorescent lamp, electronic ballasts, capacitive, e.g. low-energy lamp, 4 each max., $C \leq 88 \mu F$)</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 – 240 V/50 Hz</td>
<td></td>
</tr>
<tr>
<td>Detection angle</td>
<td>360° with 180° angle of aperture</td>
<td></td>
</tr>
<tr>
<td>Adjustment range</td>
<td>±10° precision adjustment of lens</td>
<td></td>
</tr>
<tr>
<td>Reach</td>
<td>12 m max. (temperature-stabilised)</td>
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<tr>
<td>Twilight setting</td>
<td>2 – 2000 lux</td>
<td></td>
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<tr>
<td>Time setting</td>
<td>8 sec. – 35 min.</td>
<td></td>
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<tr>
<td>IP rating</td>
<td>IP 54</td>
<td></td>
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<tr>
<td>Safety class</td>
<td>II</td>
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**IS 1**

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<tbody>
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<td>500 W max. (uncorrected, inductive, $\cos \phi = 0.5$) electronic ballasts, capacitive, e.g. low-energy lamp, 4 each max., $C \leq 132 \mu F$</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 – 240 V/50 Hz</td>
<td></td>
</tr>
<tr>
<td>Detection angle</td>
<td>120°</td>
<td></td>
</tr>
<tr>
<td>Reach</td>
<td>10 m max.</td>
<td></td>
</tr>
<tr>
<td>Twilight setting</td>
<td>2 – 2000 lux</td>
<td></td>
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<tr>
<td>Time setting</td>
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<tr>
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</tr>
<tr>
<td>Safety class</td>
<td>II</td>
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</table>

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**Motion Detectors for Outdoors**

**Infrared Sensors for Wall and Ceiling Mounting**

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**Perfected technology and upmarket design needn’t cost a fortune.**
Main features at a glance

- Low energy consumption and long life

Infrared Sensor with LED Light

The world has never seen anything like this before. The IS LED combines timeless, aesthetic design with practical benefits. Just like any other motion detector, for instance, it switches an external light 'ON' and 'OFF' again. At the same time, though, the IS LED is also a house number illuminated by LEDs. This unique, practical and stylish combination can be used for all sorts of applications.

This is how they work

- Three LED function programmes geared to practical needs:
  1. 'ON' at twilight threshold, all night
  2. 'ON' at twilight threshold to the middle of the night
  3. 'ON' when movement is detected
- When movement is detected, the light connected switches 'ON' and 'OFF' again independently of the programme.
- Manual override (4h) can be selected at a mains power switch connected to the light.

Setting options

- Detection zone of motion detector can be limited using the shrouds provided.
- Easy, convenient selection of light 'ON' time, twilight threshold and programmes on removable sensor module.

EAN 4007841...

Dimensions (HxWxD)

155 x 155 x 65 mm

Output

1000 W max. (resistive load, e.g. filament bulb)

500 W max. (uncorrected, inductive, cos \( \phi = 0.5 \), e.g. fluorescent lamp)

electronic ballasts, capacitive, e.g. low-energy lamp, 6 each max., C \( \leq 132 \, \mu F \)

LED output

approx. 1 W

Voltage

230 – 240 V/50 Hz

Detection angle

360° with sneak-by guard

Reach

8 m all round (mounted at a height of 1.75 – 2 m)

Twilight setting

2 – 2000 lux

Time setting

5 sec. – 15 min.

Manual override

selectable

IP rating

IP 54

Safety class

II

Main features at a glance

- Angle of coverage: 360°
- Perfect coverage with sneak-by guard
- Coverage angle reduction
- Setting functions
- Manual override 2 x OFF/ON

Installation advantages

- Comes complete with self-adhesive numbers for use as a house number light.
Photoelectric Lighting Controllers

Switched-on lighting technology

Photoelectric lighting controllers switch 'ON' light in relation to ambient brightness. An integrated light sensor automatically switches the connected light 'ON' at dusk and 'OFF' again at dawn. This makes them the ideal solution for any lighting system:

- Photosensor switches light 'ON' and 'OFF' in relation to ambient brightness.
- Lights of any type are switched 'ON' and 'OFF' automatically.
- Can also be used for controlling commercial lighting systems or shop window illuminations.
- Also available as low-energy lamp with integrated photoelectric lighting controller.
- Ideal for permanently illuminated house numbers.

Day = 'OFF'  Night = 'ON'  chosen night-time setting = 'OFF'

(Vario night economy mode)
NightMatic

Ideal for controlling lighting systems used for illuminating building fronts, premises, shop windows or other areas.

This is how they work
- The NightMatic 2000 registers ambient brightness, automatically switching ‘ON’ connected lights when the twilight threshold is reached at dusk and ‘OFF’ again at daybreak.
- The microprocessor controlled NightMatic 3000 Vario even goes a step further. With its Vario night economy mode, it also helps to save electricity. If you wish, it will automatically switch a light ‘OFF’ during the night after a programmable period of time and then back ‘ON’ again in the morning at about 5 a.m. – if it’s still dark.

NightMatic 3000 Vario
- Twilight setting approx. 0.5 – 10 lux.
- Variable night ‘OFF’ time (night economy mode) approx. 10 p.m. – 5 a.m.
- Compensates for its own light, i.e. operation is not impaired by another light in the vicinity.

NightMatic 2000
- Twilight setting approx. 2 – 10 lux.

Setting options
- NightMatic 3000 Vario
  - Chosen response threshold easily selected at the press of a button (2).
  - A control dial (4) permits infinitely variable adjustment of how long you want connected loads to switch ‘OFF’ automatically during the night (night economy mode).

NightMatic 2000
- Twilight setting approx. 2 – 10 lux.

Night-AUTOMATIC

LN 1

The LN 1 combines exceptional design with a high level of functionality. An extremely slim-line profile makes it a real looker wherever it’s installed. Needless to say, the 11 W low-energy lamp is included and provides perfect illumination in the evening when light levels fall to the twilight setting selected. The light then switches ‘OFF’ again automatically at dawn.

Setting options
- Easy adjustment of twilight threshold by control dial.

Installation advantages
- Clearly designed terminal compartment for fast, easy wiring.
- Includes house numbers and low-energy lamp.
- Can be mounted horizontally or vertically, on wall or ceiling, indoors or outdoors.

Main uses at a glance
SensorLight plus

The ideal and simple way of bringing sensor-controlled technology to existing lights. Simply screw into the lampholder (E 27) – done.

The successor to the tried and proven SensorLight that has sold in its millions. Similar in shape to an ordinary light bulb, its 3 photometric measurement fields guarantee reliable operation in any screw-in position. Never before has it been easier to upgrade existing outdoor and indoor lights to sensor-monitored lighting technology. Old bulb out, SensorLight plus in. That’s all it takes to benefit from a new feeling of security offering state-of-the-art energy-saving potential.

This is how it works

- An integrated photosensor registers ambient brightness and automatically switches the low-energy lamp ‘ON’ in the evening and ‘OFF’ again at dawn.
- The automatic sensor switching system saves more energy and provides more convenience than conventional low-energy lamps.
- Warm light, long life (15,000 hrs. on average).
- Suitable for indoor and outside use.

Setting options

- Chosen response threshold is easy to set.
- Easy to replace with E 27 base.

Night-AUTOMATIC

- Twilight setting 2 – 2000 lux
- Either 11, 15 or 18 W
SensorLights for Outdoors

Light comes ‘ON’ – automatically
STEINEL SensorLights provide the easiest way of bringing contemporary lighting to your home and garden. Cutting-edge sensor technology automatically switches light ‘ON’ at dusk as soon as a moving heat source is detected. When it stops detecting movement, it switches the light ‘OFF’ again after a programmed time. And the best part about it: they are as easy to install as a conventional light.

STEINEL SensorLights are available in many different shapes and designs. As wall, ceiling or free-standing lights. From classic to modern, in stainless steel or aluminium or purely as function lights.

■ Security, convenience and energy saving because light comes ‘ON’ automatically.
■ 36-month functional guarantee.
■ Glass shade availability guaranteed for 5 years.

All Steinel lights are suitable for use with low-energy lamps.

Aluminium Quality
High-quality aluminium enclosure for long life

Nano clean
Special dirt-repellent coating for maximum cleaning convenience

TIP
Forward-pointing, no-maintenance LED technology for maximum energy efficiency

All Steinel lights are suitable for use with low-energy lamps.
Energy-saving and LED technology in top-quality design

These high-quality lights bring together the very latest technologies in energy-efficient lighting in a highly attractive enclosure. The STEINEL processor-controlled mini-sensor automatically switches light ‘ON’ and ‘OFF’ in relation to whether or not a person is present. The control system has also been optimised specifically for the use of low-energy lamps. An LED light corona in the base of the unit adds an attractive lighting feature. The L 265 S also features a 1-W power LED that shines on the wall below the light when it’s dark. This attractive light effect can also illuminate the house number, family name or other information displayed there. These designer-style lights come with a high-quality die-cast aluminium enclosure finished in a dirt-repellent NANO Clean coating.

Sensor Wall Lights with an LED Light Corona and Power LED Effect Light

Setting options
- Detection zone 360° over a reach of up to 8 m.
- Light threshold and ‘ON’ time adjustable to suit needs.
- 4 programmes geared to practical needs can be selected on the removable sensor module.

Bulb Tip!

Low-energy lamp specifically for STEINEL SensorLights

- EAN 4007841...
- ESL 14 W
  - cool-white 2700K
  - warm-white 6500K
- Dimensions
  - 48 mm dia. x 125 mm
- Voltage
  - 230 – 240 V
- Lampholder
  - E27
- Long life/ large number of switching cycles ON/OFF up to 50,000 times

These high-quality lights bring together the very latest technologies in energy-efficient lighting in a highly attractive enclosure. The STEINEL processor-controlled mini-sensor automatically switches light ‘ON’ and ‘OFF’ in relation to whether or not a person is present. The control system has also been optimised specifically for the use of low-energy lamps. An LED light corona in the base of the unit adds an attractive lighting feature. The L 265 S also features a 1-W power LED that shines on the wall below the light when it’s dark. This attractive light effect can also illuminate the house number, family name or other information displayed there. These designer-style lights come with a high-quality die-cast aluminium enclosure finished in a dirt-repellent NANO Clean coating.
SensorLights, DesignSelection

SensorLight with LED back-lit glass panel.

Featuring a high-quality aluminium body and cutting-edge STEINEL mini-sensor technology, you can’t help but be impressed by the perfect marriage of design and function of the 270-Series.

The attractive highlight of the L 270 S is the flat glass panel illuminated by LED’s.

Matching the L 270 S house number light, wall light L 271 S gives a matching look to entrances and the front of buildings.

This is how they work

- LED back-lit house number at dusk, night and dawn (L 270 S).
- Extremely long LED life
- Low energy consumption by LED’s
- These SensorLights are provided with two G9 halogen bulbs for even glass shade illumination.
- Four function programmes geared to practical needs with soft light start as well as 25% basic brightness (Watt-o-matic) leave you wanting for nothing.
- Manual override (4h) at power switch.

Setting options

- Detection zone can be limited by fitting the shrouds supplied
- Easy, convenient selection of light ‘ON’ time, twilight threshold and programme on removable sensor module.

Installation advantages

- Illuminated panel can be fitted on the left or right depending on whether the light is installed to the left or to the right of the front door (L 270 S).
- Complete with self-adhesive numbers (L 270 S).

Main features at a glance

- Soft light start
- Manual override

<table>
<thead>
<tr>
<th>L 270 S</th>
<th>L 271 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN 4007841</td>
<td>EAN 4007841</td>
</tr>
<tr>
<td>aluminium 647910</td>
<td>aluminium 647919</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>Dimensions (HxWxD)</td>
</tr>
<tr>
<td>270 x 328 x 141 mm</td>
<td>270 x 100 x 141 mm</td>
</tr>
<tr>
<td>Output / light bulb</td>
<td>Output / light bulb</td>
</tr>
<tr>
<td>2 x 40 W max. / G9 LED, back-lit glass panel, approx. 1 W</td>
<td>2 x 40 W max. / G9 LED, back-lit glass panel, approx. 1 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>Voltage</td>
</tr>
<tr>
<td>230 – 240 V/50 Hz</td>
<td>230 – 240 V/50 Hz</td>
</tr>
<tr>
<td>Detection angle</td>
<td>Detection angle</td>
</tr>
<tr>
<td>360° with sneak-by guard</td>
<td>360° with sneak-by guard</td>
</tr>
<tr>
<td>Reach</td>
<td>Reach</td>
</tr>
<tr>
<td>8 m all-round</td>
<td>8 m all-round</td>
</tr>
<tr>
<td>Twilight setting</td>
<td>Twilight setting</td>
</tr>
<tr>
<td>2 – 2000 lux</td>
<td>2 – 2000 lux</td>
</tr>
<tr>
<td>Time setting</td>
<td>Time setting</td>
</tr>
<tr>
<td>5 sec. – 15 min.</td>
<td>5 sec. – 15 min.</td>
</tr>
<tr>
<td>Brightness control</td>
<td>Brightness control</td>
</tr>
<tr>
<td>0 % or 25 % (Watt-o-matic)</td>
<td>0 % or 25 % (Watt-o-matic)</td>
</tr>
<tr>
<td>Manual override</td>
<td>Manual override</td>
</tr>
<tr>
<td>selectable 4 h</td>
<td>selectable 4 h</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP rating</td>
</tr>
<tr>
<td>IP 44</td>
<td>IP 44</td>
</tr>
<tr>
<td>Safety class</td>
<td>Safety class</td>
</tr>
<tr>
<td>I</td>
<td>I</td>
</tr>
</tbody>
</table>

Installation advantages

- Illuminated panel can be fitted on the left or right depending on whether the light is installed to the left or to the right of the front door (L 270 S).
- Complete with self-adhesive numbers (L 270 S).
Well-rounded solution for modern buildings

Timelessly elegant, intelligent and interconnectable. Also the perfect choice for energy-efficient multiple-light applications

Our L 330 S and L 331 S lights are classic beauties presented in a new design. What’s more, we have given these lights our mini-sensor, the most modern control system there is. If you wish, you can also create synchronised groups of lights by using the sensor in one light to control the others. This is done simply by replacing the sensors with the cover cap provided.

A version is available with glass-shade grills for applications demanding a higher degree of protection.

This is how they work
- Three programmes geared to practical needs
  1. Light permanently ‘ON’ all night (automatic night mode)
  2. Light permanently ‘ON’ until the middle of the night, then sensor mode
  3. Sensor mode

Setting options
- Detection zone can be limited as required using shrouds provided.
- Easy, convenient adjustment of light ‘ON’ time, twilight threshold and programme selection on removable sensor module.

A version is available with glass-shade grills for applications demanding a higher degree of protection.

Well-rounded solution for modern buildings

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- Light permanently ‘ON’ until the middle of the night, then sensor mode
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### Timeless perfection

**L 306 S**

Modern design and trendsetting functionality for the front of your home.

Modern materials and timeless elegance on the outside, uncompromising sensor technology of the finest on the inside. These microprocessor-controlled lights come with an adjustable basic-brightness function that can be set to provide constant dimmed lighting when it's dark. When approached, the sensor electronics then automatically turn the light up to full output.

The L 309 S makes the perfect house number light. Supplied complete with a sheet of self-adhesive numbers, you can use it to stick the number of your house on. The basic-brightness function quickly helps visitors, couriers and taxi drivers to find the right address. The stylish overall impression of these lights is complemented by the aluminium base and hand-blown matt-finish opal glass shade.

**L 309 S**

This is how they work

- Four function programmes geared to practical needs with soft light start as well as 25% basic brightness (Watt-o-matic) leave you wanting for nothing.
- Manual override (4h) at power switch.

**Setting options**

- Detection zone can be limited as required using shrouds provided.
- Easy, convenient adjustment of light 'ON' time, twilight threshold and programme selection on removable sensor module.

### Main features at a glance

<table>
<thead>
<tr>
<th>Feature</th>
<th>L 306 S</th>
<th>L 309 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle of coverage (°)</td>
<td>Perfect coverage with sneak-by guard</td>
<td>Perfect coverage with sneak-by guard</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>326 x 230 x 104 mm</td>
<td>326 x 218 x 104 mm</td>
</tr>
<tr>
<td>EAN 4007841...</td>
<td>658112</td>
<td>658410</td>
</tr>
<tr>
<td>Aluminium effect</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output / lamp</td>
<td>100 W max. / E 27 (with programme for standard low-energy lamps)</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>230 – 240 V50 Hz</td>
<td></td>
</tr>
<tr>
<td>Detection angle</td>
<td>360° with sneak-by guard</td>
<td></td>
</tr>
<tr>
<td>Reach</td>
<td>8 m at night</td>
<td></td>
</tr>
<tr>
<td>Twilight setting</td>
<td>2 – 2000 lux</td>
<td></td>
</tr>
<tr>
<td>Time setting</td>
<td>5 sec. – 15 min.</td>
<td></td>
</tr>
<tr>
<td>Brightness control</td>
<td>0 % or 25 % (Watt-o-matic)</td>
<td></td>
</tr>
<tr>
<td>Manual override</td>
<td>selectable 4 h</td>
<td></td>
</tr>
<tr>
<td>IP rating</td>
<td>IP 44</td>
<td></td>
</tr>
<tr>
<td>Safety class</td>
<td>I</td>
<td></td>
</tr>
</tbody>
</table>

**This is how they work**

- Four function programmes geared to practical needs with soft light start as well as 25% basic brightness (Watt-o-matic) leave you wanting for nothing.
- Manual override (4h) at power switch.

**Setting options**

- Detection zone can be limited as required using shrouds provided.
- Easy, convenient adjustment of light 'ON' time, twilight threshold and programme selection on removable sensor module.
SensorLights for Outdoors

L 262 S

Modern; yet timeless. In superb quality.
The accomplished composition of hand-blown opal glass shade and aluminium light arm cuts an impressive figure with a surface finish that leaves no margin of doubt. But that’s not all: powder-coated aluminium with dirt-repelling nano-surface forms an envelope around the high-quality material. Added to this is STEINEL’s perfected sensor technology to guarantee years of reliable operation.

Setting options
- Detection zone can be limited by fitting the shrouds supplied.
- Light ‘ON’ time and twilight threshold are easy to set by dial under removable decorative ring.

Main features of the L 262 S:
- 240° / 2 sensors
- Detection zone
- Setting functions
- Reach reduction
- Coverage angle reduction
- Soft light start
- Manual override
- 240°, 180° aperture angle
- Reach max.
- Temperature-stabilised
- Twilight setting
- 2 – 2000 lux
- Time setting
- 15 sec. – 15 min.
- Brightness control
- 0 – 50 % (Watt-o-matic)
- Manual override
- selectable 4 h
- Basic brightness can be infinitely varied from 0 to 50 % (Watt-o-matic)

Specifications:
- EAN 4007841...
- Dimensions (HxWxD): 300 x 200 x 200 mm
- Output / lamp: 100 W max. / E 27
- Voltage: 230 – 240 V 50 Hz
- Detection angle: 240°, 180° aperture angle
- Reach: 12 m max. (temperature-stabilised)
- Twilight setting: 2 – 2000 lux
- Time setting: 15 sec. – 15 min.
- Brightness control: 0 – 50 % (Watt-o-matic)
- Manual override: selectable 4 h
- IP rating: IP 44
- Safety class: II
SensorLights for Outdoors

Compact, modern wall lights

Convenience, safety, peace of mind and energy efficiency in German quality needn’t be expensive: Sensationally priced, these SensorLights feature high-quality aluminium fascias, modern design and sensor technology that’s been tried and tested in millions of applications.

They come with a detection angle of 180° and max. reach of 10 m. The sensor’s generous tilting range (90°) and the ability to close off individual segments permit optimum adjustment of the detection range to the given situation. The tough polycarbonate diffuser evenly disperses the light.

Sensor Wall Lights

Setting options

- The tilting sensor lens permits exact adjustment of the detection zone to suit individual requirements.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

Installation advantages

- Clearly designed terminal compartment for fast, easy wiring.

Sensor Wall Lights

Setting functions

- Perfect detection
- Angle of coverage: 180°
- 90° vertically
- Reducing the angle of Coverage

Main features at a glance

- EAN 4007841...
- Dimensions (HxWxD): 280 x 214 x 114 mm
- Aluminium

- Output: 60 W max./ E 27
- Voltage: 230 – 240 V/50 Hz
- Detection angle: 180°
- Reach: 10 m max.
- Twilight setting: 2 – 2000 lux
- Time setting: 8 sec. – 35 min.
- IP rating: IP 44
- Safety class: II

Sensor Wall Lights

L 11 aluminium
657710
280 x 214 x 114 mm

L 12 aluminium
657918
279 x 155 x 120 mm
Stainless steel edition

The sensor wall lights from the stainless steel edition combine modern, sleek design with cutting-edge sensor technology for maximum convenience, security and economy. Ideal for home and garden.

Featuring trim panels in high-quality stainless steel and hand-blown opal glass shades for soft light distribution, they are sure to provide effective lighting outside your home. Select one of the attractive design options to suit your particular style of living. There are three hand-blown glass shades and five differently designed stainless steel trim panels to choose from.

The innovative microprocessor control system provides superb operating convenience and functions that leave you wanting for nothing.

Setting options
- Reach can be set to a maximum of 12 m or 5 m by turning the multi-lens.
- Detection zone can be limited by fitting the shrouds supplied.
- Comfort function buttons for accurately setting light ‘ON’ duration and twilight threshold as well as for controlling brightness.

Installation advantages
- Screwless shade attachment by means of eccentric fitting.
- No tools required for changing bulb.
- Easy to install.
- Electronic overload protection.

Main features of the 860-Series at a glance

| Model  | Stainless steel trim panel | Hand-blown Triopal glass shade | | Stainless steel trim panel | Hand-blown Triopal glass shade | | Stainless steel trim panel | Hand-blown, matt opal glass shade |
|--------|-----------------------------|--------------------------------|--------|-----------------------------|--------------------------------|--------|-----------------------------|
| L 860 S | 330 x 222 x 105 mm          |                                | L 867 S | 330 x 208 x 107 mm          |                                | L 876 S | 330 x 141 x 161 mm          |
| L 867 S | 330 x 222 x 105 mm          |                                | L 876 S | 330 x 141 x 161 mm          |                                |         |                             |

- Output: 100 W max./E 27
- Voltage: 230 – 240 V/50 Hz
- Detection angle: 180° with 90° angle of aperture
- Reach: 2 basic settings: 12 m max. or 5 m (temperature-stabilised)
- Twilight setting: 2 – 2000 lux
- Time setting: 5 sec. – 15 min.
- Brightness control: 0 – 50 % (Watt-o-matic)
- Manual override: selectable 4 h
- IP rating: IP 44
- Safety class: II

SensorLights for Outdoors
SensorLights for Outdoors

Classic SensorLights

Exclusive SensorLights in classic lantern design for prestigious exteriors.

High-quality stainless steel (L 170 S) or long-life, intricately ornamented die-cast aluminium (L 190 S-series) combined with uncompromising STEINEL multi-sensor technology.

This is how they work

- Integrated soft light start.
- Basic brightness can be adjusted from 0 – 50% (Watt-o-matic). When movement is detected, the light switches to full power for the time selected.
- Manual override (4h) on power switch.

Setting options

- Reach can be set to a maximum of 12 m or 5 m by turning the multi-lens.
- Detection zone can be limited by fitting the shrouds supplied.
- Comfort function buttons for accurately setting light ‘ON’ duration, twilight threshold as well as for controlling brightness.

L 170 S

- High-quality stainless steel

L 190 S

- Long-life, intricately ornamented die-cast aluminium

Main features at a glance

<table>
<thead>
<tr>
<th>Feature</th>
<th>L 170 S</th>
<th>L 190 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN</td>
<td>4007841</td>
<td>4007841</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>340 x 220 x 150 mm</td>
<td>335 x 217 x 147 mm</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP 43</td>
<td>IP 44</td>
</tr>
<tr>
<td>Output</td>
<td>100 W max. / E 27</td>
<td>black 644413  white 644412</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 – 240 V/50 Hz</td>
<td>180° / 2 sensors</td>
</tr>
<tr>
<td>Detection angle</td>
<td>180° with 90° angle of aperture</td>
<td>12 m max. or 5 m (temperature-stabilised)</td>
</tr>
<tr>
<td>Reach</td>
<td>12 m max. or 5 m (temperature-stabilised)</td>
<td>approx. 200 m²/40 m²</td>
</tr>
<tr>
<td>Twilight setting</td>
<td>2 – 2000 lux</td>
<td>180° / 2 sensors</td>
</tr>
<tr>
<td>Time setting</td>
<td>5 sec. – 15 min.</td>
<td>Coverage angle reduction</td>
</tr>
<tr>
<td>Brightness control</td>
<td>0 – 50 % (Watt-o-matic)</td>
<td>Reduction</td>
</tr>
<tr>
<td>Manual override</td>
<td>selectable 4 h</td>
<td>Soft light start</td>
</tr>
<tr>
<td>Safety class</td>
<td>II</td>
<td>Manual override 2 x OFF/ON</td>
</tr>
</tbody>
</table>
SensorLights in stainless steel
Exquisite lights in a modern, sleek look, made of stainless steel and hand-blown opal glass to give bright, even illumination. Ideal as wall, free-standing or bollard lights for gardens, drives or pathways.

The integrated soft-start feature is kind on the eyes and prolongs the life of the bulbs by slowly increasing brightness to full output over a period of one second. The electronics are equally as gentle on the light when it is switched ‘OFF’. The built-in infrared sensor technology is economical and easy to use. Manual override at power switch allows you to set the light to stay ‘ON’ for up to four hours.

Setting options
- Detection zone can be limited by fitting the shrouds supplied.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

Watt-o-matic (GL 60 S only)
Capability of setting a basic brightness of 0 – 50%. The light switches to full brightness as soon as someone enters the detection zone.

Main features of the GL 60 S:
- Detection zone: 360° / 3 sensors
- Setting functions: 2 x OFF/ON
- Coverage angle reduction
- Soft light start
- Manual override: selectable 4 h
- Brightness control: 0 – 50 % (Watt-o-matic)
- IP rating: IP 44
- Safety class: II

Main features of the L 260 S:
- Detection zone: 240° / 2 sensors
- Setting functions: 2 x OFF/ON
- Coverage angle reduction
- Soft light start
- Manual override: selectable 4 h
- Brightness control: Watt-o-matic
- IP rating: IP 44
- Safety class: I
SensorLights in traditional design

Period-style SensorLights in die-cast aluminium. Ideal as free-standing or bollard lights for gardens, drives or pathways.

Their stylish, elegant design is just as reminiscent of the good old days as the hand-blown crystal shade and use of high-quality material: This light is crafted from highly resistant, coated die-cast aluminium. The electronics are anything but old-fashioned.

Setting options
- The detection zone can be adjusted exactly to protection requirements at the site of installation by means of tilting, turning lenses and can also be limited using the shrouds provided.
- Exact time and twilight setting options by means of control dial.

GL 16 S

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN</td>
<td>4007841...</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1000 x 260 x 260 mm</td>
</tr>
<tr>
<td>Output</td>
<td>100 W max. / E 27</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 – 240 V/50 Hz</td>
</tr>
<tr>
<td>Detection angle</td>
<td>180° with sneak-by guard</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>35°</td>
</tr>
<tr>
<td>Reach</td>
<td>12 m max.</td>
</tr>
<tr>
<td>Twilight setting</td>
<td>2 – 2000 lux</td>
</tr>
<tr>
<td>Time setting</td>
<td>10 sec. – 15 min.</td>
</tr>
<tr>
<td>Brightness control</td>
<td>–</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP 44</td>
</tr>
<tr>
<td>Safety class</td>
<td>II</td>
</tr>
</tbody>
</table>

Installation advantages
- The height of the lamp can be reduced by shortening the aluminium tube.
- Can also be used on top of walls with the tube shortened to 10 cm.
Diversity in timeless design

The lights from the 706-Series combine attractive, timeless design - from classic to modern - with the latest, groundbreaking sensor technology from STEINEL.

The high-quality, die-cast aluminium light arm conceals STEINEL’s new, high-performance mini-sensor! Hardly visible, the sensor is perfectly integrated in the design of the light.

Boasting a 4-segment sensor system and mirror optics for a long focal length, the sensor provides unprecedentedly even, high-resolution 360° all-round coverage in a radius of 8 m.

This is how they work

- Four function programmes geared to practical needs with soft light start as well as 25% basic brightness (Watt-o-matic) leave you wanting for nothing.
- Manual override (4h) at power switch.

The lights from the 706-Series combine attractive, timeless design – from classic to modern – with the latest, groundbreaking sensor technology from STEINEL.

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This is how they work

- Four function programmes geared to practical needs with soft light start as well as 25% basic brightness (Watt-o-matic) leave you wanting for nothing.
- Manual override (4h) at power switch.
A spot of old-fashioned elegance at an astounding price. The new L 15 now gives anyone with a preference for a classic look the opportunity to benefit from cutting-edge sensor technology for very little money.

The traditional design and quality of this intelligent light is underscored by the hint of bevelled glass. The light is equipped with the brand leader’s sensor technology that’s been tried and tested in millions of applications. They come with a detection angle of 180° and max. reach of 10 m. The sensor’s generous tilting range (90°) and the ability to close off individual segments permit good adjustability of the detection range to the given situation.

Classic in Design and Quality

Main features at a glance

- **EAN 4007841**...
- **Dimensions (HxWxD)**: 410 x 190 x 240 mm
- **Output**: 60 W max./ E 27
- **Voltage**: 230 – 240 V/50 Hz
- **Detection angle**: 180°
- **Reach**: 10 m max.
- **Twilight setting**: 2 – 2000 lux
- **Time setting**: 8 sec. – 35 min.
- **IP rating**: IP 44
- **Safety class**: II

**Classic Sensor Wall Lights**

SensorLights for Outdoors
560-Series

Sensor wall lights of unadorned, classic design with tried and proven technology for home and garden.

Each of these lights is available either in black or white. Hand-blown by craftsmen, the glass shades lend each of these lights their own particular identity. In addition to the globe option, there’s also the classic lantern style to choose from.

Setting options

- The detection zone can be adjusted exactly to protection requirements at the site of installation by means of tilting, turning Fresnel lens and can also limited using the shrouds provided.
- Easy adjustment of light ‘ON’ duration and twilight threshold by control dial.

SensorLights for Outdoors

<table>
<thead>
<tr>
<th>L 560 S</th>
<th>L 562 S</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Hand-blown, bubble-effect crystal glass" /></td>
<td><img src="image2" alt="Hand-blown and hand-painted glass shade" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L 560 S</th>
<th>L 562 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN 4007641</td>
<td>EAN 4007643</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>Dimensions (HxWxD)</td>
</tr>
<tr>
<td>388 x 215 x 243 mm</td>
<td>410 x 200 x 260 mm</td>
</tr>
<tr>
<td>Output</td>
<td>Output</td>
</tr>
<tr>
<td>60 W max. / E 27</td>
<td>60 W max. / E 27</td>
</tr>
<tr>
<td>Voltage</td>
<td>Voltage</td>
</tr>
<tr>
<td>230 – 240 V/50 Hz</td>
<td>230 – 240 V/50 Hz</td>
</tr>
<tr>
<td>Angle of coverage</td>
<td>Angle of coverage</td>
</tr>
<tr>
<td>140° horizontally with sneak-by guard</td>
<td>140° horizontally with sneak-by guard</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>Adjustment range</td>
</tr>
<tr>
<td>130° horizontally, 65° vertically</td>
<td>130° horizontally, 65° vertically</td>
</tr>
<tr>
<td>Reach</td>
<td>Reach</td>
</tr>
<tr>
<td>12 m max.</td>
<td>12 m max.</td>
</tr>
<tr>
<td>Twilight setting</td>
<td>Twilight setting</td>
</tr>
<tr>
<td>2 – 2000 lux</td>
<td>2 – 2000 lux</td>
</tr>
<tr>
<td>Time setting</td>
<td>Time setting</td>
</tr>
<tr>
<td>10 sec. – 15 min.</td>
<td>10 sec. – 15 min.</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP rating</td>
</tr>
<tr>
<td>IP 44</td>
<td>IP 44</td>
</tr>
<tr>
<td>Safety class</td>
<td>Safety class</td>
</tr>
<tr>
<td>II</td>
<td>II</td>
</tr>
</tbody>
</table>
The design element that gives this SensorLight its unique look is the interesting effect of the crystal clear glass shade. The multi-lens visible at the base blends harmoniously into the design and is the external mark of a highly sensitive interior.

**Setting options**
- Watt-o-matic allows basic brightness to be adjusted from 0 to 50%. When movement is detected, the light switches from the courtesy mode of basic brightness to full output.
- The use of shrouds permit exact adjustment to the specific situation.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.
Sensor wall light of unadorned, classic design with tried and proven technology for home and garden.

Harmoniously integrated in the design, a lens provides a maximum coverage angle of 180°. Hand-blown by craftsmen, the glass shades lend each of these lights their own particular identity.

Setting options
- The tilting sensor lens permits exact adjustment of the detection zone to suit individual requirements.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

Installation advantages
- Clearly designed terminal compartment for fast, easy wiring.

Main features at a glance
- Angle of coverage: 180°
- 10 m max.
- 90° vertically

Attractively priced entry-level model
Hand-blown, bubble-effect crystal glass shade

- Attractively priced entry-level model
- Hand-blown, bubble-effect crystal glass shade

Simply stylish and practical in many ways.
The quality and experience of the market leader in a simple but stylish SensorLight. This is the mark of an effective way to watch over areas as large as 105 m². The practical part about it: In its lowest position, the sensor can be used for detecting movement along the wall of a building.

Setting options
- The tilting sensor lens permits exact adjustment of the detection zone to suit individual requirements.
- Simple adjustment of light ‘ON’ time and twilight threshold by control dial.

Installation advantages
- Clearly designed terminal compartment for fast, easy wiring.
- Complete with self adhesive numbers for use as illuminated house number.

Attractively priced entry-level model
Impact-resistant plastic cover
Light from the top… automatically

High-quality ceiling SensorLights featuring state-of-the-art multi-lens technology from STEINEL for all-round coverage of areas under porches, overhanging roofs, wall projections, garages or carports.

Featuring a housing base in high-quality, long-life die-cast aluminium and hand-blown opal glass shades or impact-resistant acrylic glass shades, the DL 750 S provides soft light distribution and energy-saving illumination.

This is how they work
- Basic brightness can be adjusted from 0 - 50% (Watt-o-matic). When movement is detected, the light switches to full power for the time selected.
- The integrated soft light start feature creates a pleasant lighting effect and prolongs the life of the bulb by gradually increasing brightness to full output over a period of one second when the light is switched ‘ON’. The electronics are equally as gentle on the light when it is switched ‘OFF’.

Setting options
- Detection zone can be limited by fitting the shrouds supplied
- Control dials for easy adjustment of light ‘ON’ time, twilight threshold and brightness.

Installation advantages
- Bulb can be changed without tools thanks to glass shade with bayonet fitting.

This is how they work
- Basic brightness can be adjusted from 0 - 50% (Watt-o-matic). When movement is detected, the light switches to full power for the time selected.
- The integrated soft light start feature creates a pleasant lighting effect and prolongs the life of the bulb by gradually increasing brightness to full output over a period of one second when the light is switched ‘ON’. The electronics are equally as gentle on the light when it is switched ‘OFF’.

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- Detection zone can be limited by fitting the shrouds supplied
- Control dials for easy adjustment of light ‘ON’ time, twilight threshold and brightness.

Installation advantages
- Bulb can be changed without tools thanks to glass shade with bayonet fitting.

Main features at a glance
- Hand-blown opal glass shade
- Unbreakable acrylic glass shade
- EAN4007841... 650315
- DL 750 S
- white/opal glass shade
- 360° / 3 sensors
- approx. 350 m²
- 12 m max. all round (temperature-stabilised)
- Dimensions (HxWxD): 135 x 315 x 315 mm
- Output: 100 W max. / E 27
- Voltage: 230 – 240 V 50 Hz
- Detection angle: 360° with 180° angle of aperture
- Reach: 12 m max. all round (temperature-stabilised)
- Twilight setting: 2 – 2000 lux
- Time setting: 5 sec. – 15 min.
- Brightness control: 0 – 50 % (Watt-o-matic)
- Manual override: selectable 4 h
- IP rating: IP 44
- Safety class: I
- DL 750 S
- white/opal glass shade
- 360° / 3 sensors
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- 12 m max. all round (temperature-stabilised)
- Dimensions (HxWxD): 135 x 315 x 315 mm
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- Twilight setting: 2 – 2000 lux
- Time setting: 5 sec. – 15 min.
- Brightness control: 0 – 50 % (Watt-o-matic)
- Manual override: selectable 4 h
- IP rating: IP 44
- Safety class: I
SensorLights for Outdoors

Efficiency highlight

Maximum energy efficiency under porches

Light is required on a particularly frequent basis at entrances to apartment buildings. This is where combining sensor technology and low-energy lamps provides particularly high savings.

The DL 850 S makes the perfect choice for buildings where the entrance light is installed under a canopy roof. The attractively styled ceiling SensorLight is equipped with two 9-watt low-energy lamps. The ballast ensures the light comes ‘ON’ quickly and helps to prolong lamp life.

DL 850 S

<table>
<thead>
<tr>
<th>EAN 4007841...</th>
<th>DL 850 S</th>
<th>white/plastic</th>
<th>silver/plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>760113</td>
<td>760212</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>258 mm dia. x 74 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>Includes 2 x 9 W / 2G7 (low-energy lamps)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>230 – 240 V 50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detection angle</td>
<td>360°, 160° aperture angle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reach</td>
<td>7 m max. all around (temperature-stabilised)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twilight setting</td>
<td>2 – 2000 lux</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time setting</td>
<td>1 min. – 15 min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP rating</td>
<td>IP 44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety class</td>
<td>II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact-resistance</td>
<td>IK 07</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Main features at a glance

- 360° / 3 sensors
- Straightforward installation
- Twilight setting
- Time setting

Maximum energy efficiency under porches

Light is required on a particularly frequent basis at entrances to apartment buildings. This is where combining sensor technology and low-energy lamps provides particularly high savings.

The DL 850 S makes the perfect choice for buildings where the entrance light is installed under a canopy roof. The attractively styled ceiling SensorLight is equipped with two 9-watt low-energy lamps. The ballast ensures the light comes ‘ON’ quickly and helps to prolong lamp life.
SensorLights for Outdoors

Lighting sensation: The LED powerhouse

STEINEL brings tomorrow’s technology to your home today. The XLed Home floodlight with its 170 LEDs ensures perfect illumination with a sensationally low energy requirement.

The new hi-tech floodlight requires less than 15 watts to immerse its surroundings in dazzling light. Its incredibly high level of efficiency is made possible by using 170 LEDs for light and an innovative control system. These modern components come with a further major advantage: compared with halogen or filament bulbs, their life is virtually unlimited. Their life span is enhanced by STEINEL’s Active-Thermo-Control technology that protects the LEDs from overheating.

As the floodlight emits only a fraction of the heat conventional floodlight do, it can be installed without a problem under porches. Adjusting in all directions, the light panel can be aimed perfectly at the area you wish to illuminate.

Intelligent lighting control is provided by STEINEL’s IR-Sensor technology that has been tried and proven in millions of applications and also featured in the IS 140-2 motion detector. The combination of LED technology and sensor control produces a saving of 90% over conventional halogen floodlights.

XLed Home 1

- **EAN**: 4007841...
- **Dimensions (HxWxD)**: 210 x 175 x 180 mm
- **Output**: 170 LEDs, approx. 14.8 W
- **Light colour**: 6700 Kelvin
- **Voltage**: 230 – 240 V/50 Hz
- **Floodlight posit. range**: 180° horizontally, 120° vertically
- **Detection angle**: 140° with sneak-by guard
- **Sensor positioning range**: 180° horizontally, 90° vertically
- **Detection reach**: 14 m max. (temperature-stabilised)
- **Twilight setting**: 2 – 2000 lux
- **Time setting**: 8 sec. – 35 min.
- **IP rating**: IP 44
- **Safety class**: I

**Main features at a glance**

- **14.8 W LED**
- **90% energy saving**
- **Active Thermo-Control**

<table>
<thead>
<tr>
<th>XLed Home 1</th>
<th>white</th>
<th>silver</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN</td>
<td>002695</td>
<td>002688</td>
</tr>
<tr>
<td>Dimensions</td>
<td>210 x 175 x 180 mm</td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>170 LEDs, approx. 14.8 W</td>
<td></td>
</tr>
<tr>
<td>Light colour</td>
<td>6700 Kelvin</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>230 – 240 V/50 Hz</td>
<td></td>
</tr>
<tr>
<td>Floodlight posit. range</td>
<td>180° horizontally, 120° vertically</td>
<td></td>
</tr>
<tr>
<td>Detection angle</td>
<td>140° with sneak-by guard</td>
<td></td>
</tr>
<tr>
<td>Sensor positioning range</td>
<td>180° horizontally, 90° vertically</td>
<td></td>
</tr>
<tr>
<td>Detection reach</td>
<td>14 m max. (temperature-stabilised)</td>
<td></td>
</tr>
<tr>
<td>Twilight setting</td>
<td>2 – 2000 lux</td>
<td></td>
</tr>
<tr>
<td>Time setting</td>
<td>8 sec. – 35 min.</td>
<td></td>
</tr>
<tr>
<td>IP rating</td>
<td>IP 44</td>
<td></td>
</tr>
<tr>
<td>Safety class</td>
<td>I</td>
<td></td>
</tr>
</tbody>
</table>

**Function setting**

- **Detection zone**
- **Detection angle**
- **Perfect detection with sneak-by guard**
- **90° vertically**
- **180° horizontally**
- **Detecting movement along outside wall**

**Perfect detection with sneak-by guard**

2 m

**Main features at a glance**

- **Detection zone**
- **Detection angle**
- **Perfect detection with sneak-by guard**
- **90° vertically**
- **180° horizontally**
- **Detecting movement along outside wall**

**Function setting**

- **Detection zone**
- **Detection angle**
- **Perfect detection with sneak-by guard**
- **90° vertically**
- **180° horizontally**
- **Detecting movement along outside wall**

**Function setting**
Sensor-Switched Halogen Floodlights

STEINEL sensor-switched halogen floodlights are the ideal solution when it comes to illuminating the front of buildings, driveways and vulnerable spots with particularly bright light. These vigilant floodlights are designed for bulbs with output ratings of 150 to 500 watts. This automatically picks out special features, welcomes guests and frightens off unwanted visitors. Ranging from the low-price Fresnel lens light HS 5140 to the microprocessor controlled hi-tech floodlight HS 500, the STEINEL line-up offers just the right model for any application. Models HS 150 and HS 300 are equipped with a ceramic reflector.

Setting options

- The detection zone can be adjusted exactly to requirements at the site of installation by means of the tilting, swivelling multi-lens (HS 150 DUO, HS 300 DUO, HS 500 DUO) or Fresnel lens (HS 5140) and can be limited using the shrouds provided.
- Easy adjustment of light 'ON' duration and twilight threshold by control dial.

HS 150/300/500

The halogen floodlight housing can be tilted from +110° to -40° and swivelled through ±40°. This permits optimum illumination even in situations where installation is awkward.
**SensorLights for Outdoors**

### HS 150 DUO
- Black
- White
- Platinum effect

<table>
<thead>
<tr>
<th>EAN</th>
<th>Dimensions (HxWxD)</th>
<th>Output</th>
<th>Voltage</th>
<th>Detection angle</th>
<th>Reach</th>
<th>Twilight setting</th>
<th>Time setting</th>
<th>IP rating</th>
<th>Safety class</th>
<th>Optional accessories</th>
</tr>
</thead>
</table>
| 4007841 | 235 x 155 x 170 mm | 150 W max. / R7s linear halogen lamp and an additional max. switching capacity of 800 W at L’ | 230 – 240 V/50 Hz | 240° with 180° angle of aperture | 12 m max. (Temperature-stabilised) | 2 – 3000 lux | 10 sec. – 15 min. | IP 44 | I | Corner wall mount 02
| 633011 | 633110 | 646318 |

### HS 300 DUO
- Black
- White

<table>
<thead>
<tr>
<th>EAN</th>
<th>Dimensions (HxWxD)</th>
<th>Output</th>
<th>Voltage</th>
<th>Detection angle</th>
<th>Reach</th>
<th>Twilight setting</th>
<th>Time setting</th>
<th>IP rating</th>
<th>Safety class</th>
<th>Optional accessories</th>
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<tbody>
<tr>
<td>4007841</td>
<td>240 x 210 x 180 mm</td>
<td>300 W max. / R7s linear halogen lamp</td>
<td>230 – 240 V/50 Hz</td>
<td>240° with 180° angle of aperture</td>
<td>12 m max. (Temperature-stabilised)</td>
<td>2 – 2000 lux</td>
<td>10 sec. – 15 min.</td>
<td>IP 44</td>
<td>I</td>
<td>-</td>
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<td>633219</td>
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</table>

### HS 500 DUO
- Black
- White

<table>
<thead>
<tr>
<th>EAN</th>
<th>Dimensions (HxWxD)</th>
<th>Output</th>
<th>Voltage</th>
<th>Detection angle</th>
<th>Reach</th>
<th>Twilight setting</th>
<th>Time setting</th>
<th>IP rating</th>
<th>Safety class</th>
<th>Optional accessories</th>
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<tbody>
<tr>
<td>4007841</td>
<td>265 x 210 x 210 mm</td>
<td>500 W max. / R7s linear halogen lamp</td>
<td>230 – 240 V/50 Hz</td>
<td>240° with 180° angle of aperture</td>
<td>20 m max. (Temperature-stabilised)</td>
<td>10 sec. – 15 min.</td>
<td>IP 44</td>
<td>I</td>
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<tr>
<td>633417</td>
<td>633516</td>
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</table>

### HS 5140
- Black
- White

<table>
<thead>
<tr>
<th>EAN</th>
<th>Dimensions (HxWxD)</th>
<th>Output</th>
<th>Voltage</th>
<th>Detection angle</th>
<th>Reach</th>
<th>Twilight setting</th>
<th>Time setting</th>
<th>IP rating</th>
<th>Safety class</th>
<th>Optional accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>575212</td>
<td>185 x 170 x 160 mm</td>
<td>500 W max. / R7s linear halogen lamp</td>
<td>230 – 240 V/50 Hz</td>
<td>200° with sneak-by guard</td>
<td>12 m max. (Temperature-stabilised)</td>
<td>2 – 2000 lux</td>
<td>8 sec. – 35 min.</td>
<td>IP 54</td>
<td>I</td>
<td>-</td>
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<td>577919</td>
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</tbody>
</table>

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**Sensor-Switched Halogen Floodlights**

- **HS 150 DUO**
  - Attractive design
  - High-quality, powerful ceramic reflector

- **HS 300 DUO**
  - Attractive design
  - High-quality, powerful ceramic reflector

- **HS 500 DUO**
  - Long light and sensor reach of up to 20 m
  - Attractively priced starter model

---

**CERAMIC REFLECTOR**

- Reducing coverage angle
- Detach decorative ring
- Twilight, time setting

---

**HS 5140**

- 140° / 1 sensor
- 12 m max. (Temperature-stabilised)
Welcome home

The future of lighting is automatic. Not only outdoors where STEINEL’s invention is part of today’s standard equipment for home and garden. Developing state-of-the-art high-frequency sensors, STEINEL has made tomorrow’s technology an attractive option for indoors too. As a result, it is now possible to benefit from maximum energy efficiency and optimum convenience within the home as well – all powered by STEINEL.

The innovation is concealed inside the light. A high-frequency motion detector that switches light ‘ON’ to welcome you and your visitors on entering the room and turns it ‘OFF’ again when it’s no longer needed. Welcome home. Welcome to the future.

• Response light level, light ‘ON’ time and reach can be adjusted to suit individual requirements.
• Easy to install: Sensor and light = 1 connection
• Available as wall or ceiling lights in a choice of designs.
• 36-month functional guarantee.
• Glass shade availability guaranteed for 5 years

All Steinel lights are suitable for use with low-energy lamps.
Sensor Systems for Indoors

Light 'ON' and 'OFF' ... automatically

An innovation from STEINEL – the original.

STEINEL high-frequency (HF) sensors instantly identify movements without "sensitivity" being restricted by ambient temperature and the direction in which the object being detected is moving.

The hi-tech sensors emit signals and receive the echo reflected off walls and surrounding objects a moment later. Responding to the changed echo image, the sensor registers any movement in the detection zone within fractions of a second and immediately switches the light 'ON'! The light switches 'OFF' automatically after a period you wish to select.

STEINEL high-frequency sensors operate at 5.8 GHz. As these signals are not obstructed by glass and thin walls, the sensor can be installed inside the light where they are hidden from view. This means nothing spoils the design of STEINEL SensorLights.

At approx. 1 mW, their power output is about 1000 times less than that of a mobile phone.

Detection zone

There’s no way round HF-SensorLights from STEINEL. They detect even the tiniest movement anywhere within a distance of up to 8 m in a 360° circle. If required, reach can be reduced electronically to any distance as short as 1 m.

Elegant convenience

Intelligence is something you can’t see but notice. Hidden out of view on the inside, HF-technology from STEINEL switches the attractive light ‘ON’ “just in time”.

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Watchful light

STEINEL’s HF-SensorLights have a detection zone that’s ideal for applications indoors. Providing all-round, 360° coverage, they can be installed on walls or ceilings.

straightforward installation

STEINEL HF-SensorLights are installed just as quickly and easily as conventional lights: Fix light to wall or ceiling and connect phase and neutral conductor to the screw terminals – that’s all there is to it. With the integrated sensor system, the only difference now is that there’s no switching ‘ON’ and ‘OFF’ to do by hand any more.

Connecting other loads

The HF-SensorLights are provided with a separate terminal that can be used for connecting other loads. On entering the guest toilet, for example, an additional lamp or extractor fan then switches ‘ON’ together with the light. Maximum switching capacity is 100 watts.

Twilight setting

Setting the response threshold to between 2 and 2000 lux, you can determine the level of ambient brightness at which you want the SensorLight to come ‘ON’. While it’s still light, at dusk or when it gets dark.

Modernisation in seconds flat

STEINEL HF-SensorLights are installed in exactly the same way as conventional lights. They require no extra work and there are no additional cables to connect either. On the contrary: There is no necessity for complicated two-way double pole reversing switches and the wiring runs they involve. Investing in the future couldn’t be easier or more convenient.

A matter of choice

STEINEL HF-SensorLights can be set exactly the way you want at three infinitely adjustable control dials.

Principle

Reach adjustment

STEINEL HF-SensorLights can detect movements within a radius of 1 to 8 m. Reach is infinitely variable within this range.

Time setting

STEINEL HF-SensorLights are equipped with a timer that makes sure the light stays ‘ON’ for the selected period of time. The time you want the light to stay ‘ON’ for can be adjusted to any setting between 5 sec and 15 min.

Connecting other loads

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Sensor Systems for Indoors

Light comes ‘ON’ when someone’s there. Wherever it’s needed.

www.energieclevernuten.de
Light ‘ON’. Light ‘OFF’. Controlled by sensor.

Applications

Bright rooms for bright individuals
Steinel has the right solution for advanced lighting to suit any room and any application. Here are a few suggestions of where to use which product.

E.g. garage, boiler room, box-room...
E.g. entrances, stairwells...

E.g. corridors, storerooms...
E.g. laundry rooms...

E.g. guest’s bathroom, closet...
E.g. corridors in apartment buildings...

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RS 13 L
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FRS 20
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HF 360 AP
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RS 69 L
Page 87
RS 10-1 L
Page 82
SensorLights for Indoors

RS 10-1 L / 100 L / 16 L

- Clean-cut design, ideal for corridors, halls or stairwells.
- Whether as ceiling or wall light, elegant, hand-blown glass shades create a warm, even light.

This is how they work
- Invisibly concealed inside, cutting-edge high-frequency sensor technology responds to the slightest movement irrespective of temperature, instantly switching the light ‘ON’ and then ‘OFF’ again after a selectable time.

Setting options
- Infinitely variable, electronic reach setting from 1 – 8 metres in all directions.
- Easy adjustment of light ‘ON’ duration and twilight threshold by control dial.

Installation advantages
- Straightforward installation (lamp and sensor = 1 connection)
- Facility for connecting additional loads (e.g. bathroom/WC extractor fan)
- Bulb can be changed without the need for tools as screwless glass shade is held in place by bayonet catch.

Main features of SensorLights
- Easily mounted to walls or ceilings
- Twilight setting
- Time setting
- Reach setting

RS 16-2 L / RS 16-3 L

- Square, hand-blown, matt opal glass shade.
- Optionally with trims to suit any taste.
- Anyone preferring a square shape will find the right high-frequency SensorLight among the models shown here.
- In exceptional designs and high-quality finish, they can be used as wall or ceiling lights.
- Particularly practical: Spring mechanism for aligning the square glass shade with effortless ease.

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## SensorLights for Indoors

**RS 13 L / RS 10-3 L**

Stylish looks in a wide diameter, ideal for corridors, hallways or stairwells. These lights cut a great figure wherever they are installed - whether on the ceiling or on the wall. The hand-blown opal glass shades are surrounded with trim panels in matt-finished crystal glass or coloured plastic. Maximum bulb output is 75 watts.

- **Operation, setting options and installation advantages**  
  - see p. 82

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Output</th>
<th>Transmitter Power</th>
<th>RF System</th>
<th>IP Rating</th>
<th>Safety Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS 13 L</td>
<td>Ø 340 mm</td>
<td>75 W max. + 800 W max. / E 27</td>
<td>approx. 1 mW</td>
<td>5.8 GHz</td>
<td>IP 44</td>
<td>II</td>
</tr>
<tr>
<td>RS 10-3 L</td>
<td>Ø 280 mm</td>
<td>75 W max. + 800 W max. / E 27</td>
<td>approx. 1 mW</td>
<td>5.8 GHz</td>
<td>IP 44</td>
<td>II</td>
</tr>
</tbody>
</table>

### Features

- Hand-blown opal glass shade with matt-finished glass ring (RS 13 L)
- White, hand-blown Triopal glass shade with plastic trim panel (RS 10-3 L)
- Base in high-quality die-cast aluminium

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## High-frequency SensorLights for Wall and Ceiling Mounting

### RS 21 L

Exquisite design, ideal for rooms in living areas. Anyone with a preference for exception-al design is sure to find the right hi-tech SensorLight for their home in this series. Three visible clips not only hold the white glass shades securely in place, they also add to the overall design.

### Specifications

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<th>Diameter</th>
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<th>Transmitter Power</th>
<th>RF System</th>
<th>IP Rating</th>
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<td>Ø 340 mm</td>
<td>75 W max. + 800 W max. / E 27</td>
<td>approx. 1 mW</td>
<td>5.8 GHz</td>
<td>IP 44</td>
<td>II</td>
</tr>
</tbody>
</table>

### Features

- Three retaining clips create a striking look
- Domed, matt opal glass shade
- Base in high-quality, silver-lacquered die-cast aluminium

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**Main features of SensorLights**

- Exquisite design
- Ideal for rooms in living areas
- Three visible clips not only hold the white glass shades securely in place, they also add to the overall design

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**Detection zones for wall and ceiling mounting**

- Straightforward installation
- Twilight setting
- Time setting
- Reach setting
**HF-SensorLights for Indoors**

**BRS 60 L / BRS 61 L**  
BRS 65 L / BRS 66 L

Exquisite wall and mirror lights for bathrooms and hallways.

This range makes a stylish appearance in any bathroom, corridor and hallway. Sleek design, high-quality materials and trendsetting technology. Innovative HF-technology does its job out of sight, almost instantly and always most efficiently.

**Setting options**
- Infinitely variable, electronic reach setting from 1 – 5 metres in all directions.
- Easy adjustment of light ‘ON’ duration and twilight threshold by control dial.

**Main features at a glance**

- **Angle of coverage:** 360°
- **Detection zone when wall-mounted**
- **Twilight setting**
- **Time setting**
- **Minimum distances in bathrooms**

**BRS Series**

<table>
<thead>
<tr>
<th>Model</th>
<th>EAN</th>
<th>Dimensions (HxWxD)</th>
<th>Output</th>
<th>Voltage</th>
<th>Coverage angle</th>
<th>Transmitter power</th>
<th>HF-system</th>
<th>Reach</th>
<th>Twilight setting</th>
<th>Time setting</th>
<th>IP rating</th>
<th>Safety class</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRS 60 L</td>
<td>740115</td>
<td>500 x 90 x 60 mm</td>
<td>3 x 40 W max./ G9</td>
<td>230 – 240 V/50 Hz</td>
<td>360° with 160° aperture angle</td>
<td>approx. 1 mW</td>
<td>5.80 GHz</td>
<td>0.5 – 5 m dia., infinitely variable</td>
<td>2 – 2000 lux</td>
<td>5 sec. – 15 min.</td>
<td>IP 44</td>
<td>I</td>
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<td>BRS 61 L</td>
<td>740214</td>
<td>500 x 90 x 60 mm</td>
<td>3 x 40 W max./ G9</td>
<td>230 – 240 V/50 Hz</td>
<td>360° with 160° aperture angle</td>
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<tr>
<td>BRS 65 L</td>
<td>740610</td>
<td>350 x 90 x 60 mm</td>
<td>2 x 40 W max./ G9</td>
<td>230 – 240 V/50 Hz</td>
<td>360° with 160° aperture angle</td>
<td>approx. 1 mW</td>
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<td>I</td>
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<td>740719</td>
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Energy-saving marvels for many different places.

The FRS 20 light combines sensor technology, low-energy light source and ultra slimline design. The result: a clever all-round-energy-saving light for a wide range of applications.

Setting options
- Infinitely variable, electronic reach setting from 1 – 5 metres in all directions.
- Easy adjustment of light ‘ON’ duration and twilight threshold by control dial.

Operational reliability
- Bulbs work independently of each other (so light stays ‘ON’ even if one of the bulbs is faulty).

Main features at a glance

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FRS 30

Practical ceiling-mounted solution for basements, boiler rooms and garages.

For the first time, the FRS 30 light provides tried and tested sensor technology from STEINEL in a further practical form of light. The electronics instantly turn the light ‘ON’ without frequency of operation affecting service life.

Setting options
- Infinitely variable reach setting from 1 – 8 metres in all directions.
- Easy adjustment of light ‘ON’ duration and twilight threshold by control dial.

Main features at a glance
Intelligent Light Switches

Light switches of today work automatically without having to touch them. The intelligent hi-tech switches from STEINEL are the ideal solution for all rooms in which practical lighting is important: corridors, stairwells, bathrooms, WC’s, kitchens, basements, laundries as well as any room in which the need for light is only temporary.

- Security, convenience and energy saving because light comes ‘ON’ automatically.
- Suitable for retrofitting in standard backboxes as well as for installation in new build and contract work.
- Conventional switches easily replaced with SensorSwitches.
- Useful additional functions, such as permanent light ‘ON’ (4 h.) or permanent light ‘OFF’.
- Available either in surface-mounted or concealed version.
- Attractive range of faceplates for combination with other switches and sockets.
**Motion Detectors for Indoors**

**IR 180 UP/AP**

Sturdy, tried and proven, long-reach sensor switch using infrared technology. In the concealed version, ideal for corridors, kitchens and guest WC’s, in the surface-mounted version for basements, garages, carparks and outside areas.

The SensorSwitch responds to the heat radiated from moving persons. With a reach of 8 meters, they make the ideal choice even for large rooms. The IR 180 AP splashproof surface-mounted version with IP 54 enclosure protection rating is also suitable for installation outdoors or in rooms exposed to moisture.

**Setting options**
- Control dials for easy adjustment of reach, light ‘ON’ time and twilight threshold are protected from accidental maladjustment behind the lift-up trim panel.
- Integrated pushbutton for switching to permanent light ‘ON’ (4 hours max.) or permanent light ‘OFF’. A red LED indicates the function selected.

**HF 360 UP/AP**

Rapid-response, long-reach and versatile sensor switch using high-frequency technology. In the concealed version, ideal for stairwells, hallways and bathrooms, in the surface-mounted version for stairwells, basements and laundries.

High-frequency detectors emit a nonperceivable signal and respond to changes in the echo pattern caused by movement irrespective of temperature. With its generous detection range, virtually instant response behaviour and a reach that can be infinitely varied between 1 m and 8 m, it is suitable even for difficult spaces.

**Setting options**
- Control dials for easy adjustment of reach, light ‘ON’ time and twilight threshold are protected from accidental maladjustment behind the screw-down trim panel.
- Integrated pushbutton for switching to permanent light ‘ON’ (4 hours max.) or permanent light ‘OFF’. A red LED indicates the function selected.

**NF 50 UP**

The NF 50 UP close-range sensor switches light ‘ON’ or ‘OFF’ without touching. Ideal for kitchens, bathrooms, workshops, practices and all rooms where the emphasis is on hygiene, cleanliness and electrical safety.

The NF 50 SensorSwitch is equipped with a close-range sensor that responds to hand movements close up to the sensor (within a distance of 5 cm). This makes it possible to operate lights safely and hygienically, even with wet or dirty hands.

**Setting options**
- Light is switched ‘ON’ and ‘OFF’ without touching switch
- A light-emitting diode allows you to locate the sensor surface even in the dark.

**SensorSwitches for Concealed and Surface Mounting**

This is how it works
IR 180 UP
- Concealed infrared sensor, ideal for corridors, kitchens and guest toilets
- Coverage angle: 180°
- Dimensions: 82 x 82 x 58 mm
- EAN: 4007841...

HF 360 UP
- Concealed high-frequency sensor, ideal for stairwells, hallways and bathrooms
- Coverage angle: 360°
- Dimensions: 82 x 82 x 55 mm
- EAN: 4007841...

NF 50 UP
- Concealed, close-range sensor, ideal for kitchens, bathrooms, workshops and practices
- Coverage angle: 180°
- Dimensions: 82 x 82 x 55 mm
- EAN: 4007841...

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Motion Detectors for Indoors

Accessories
- Safety class: II
- IP rating: IP 20
- LED: selectable
- Manual override: yes, manual override, perm. ‘OFF’
- Twilight setting: selectable 4 h
- Time setting: 10 sec. - 30 min.
- Voltage: 230 – 240 V, 50 Hz
- Reach: 8 m max.
- Output: 6 each max., C
- Power: 500 W max. (e.g. low-energy lamp)
- Dimensions: 81 x 81 x 58 mm
- Weight: 10/16 A, 250 V
- Faceplate available in pure white.

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SensorSwitches for Concealed and Surface Mounting / Installation Components

IR 180 AP
- Splashproof, surface-mounted infrared sensor, ideal for basements, garages, carports and outdoor areas
- Coverage angle: 180°
- Dimensions: 82 x 72 x 64 mm
- EAN: 4007841...

HF 360 AP
- Splashproof surface-mounting high-frequency sensor, ideal for stairwells, basement stairs and indoor use
- Coverage angle: 360°
- Dimensions: 82 x 72 x 66 mm
- EAN: 4007841...

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Range of faceplates for SensorSwitches

STEINEL offers an attractive range of faceplates for SensorSwitches to ensure that the switches of tomorrow fit in well with any home today:

- A stylish selection of socket outlets and switches gives a matching look to intelligent sensors and conventional mounting components.
- The trims are made of plastic and available in pure white.
### Sensor Technology at a Glance

#### Sensor Switches
- **IR 180 UP / AP**: 1000 W, 180° with night-time mode, 8 max. – 8 W, 30 min. – Yes
- **IR 360 UP / AP**: 1000 W, 360° all-round detection, 8 max. – 8 W, 30 min. – Yes
- **NP 50 UP**: 1000 W, 100 W, 8 W, 30 min. – 5 cm max. – Yes

#### SensorLights for outdoors
- **L 265 S**: ESL 48 mm dia. / E 27, 360° with sneeze-guard, 8 max. - 5 sec. – 2000 lux, 5% max. – 4 hours max. – Yes

#### Products
- **IS NM 360**: 96 W, max. 10 m, 60 W, max. 8 sec. – 2000 lux, 5% max. – 4 hours max.
- **IS 240 DUO**: 96 W, max. 12 m, 60 W, max. 8 sec. – 2000 lux, 5% max. – 4 hours max.
- **IS 130 S**: 96 W, max. 16 m, 60 W, max. 8 sec. – 2000 lux, 5% max. – 4 hours max.
- **IS 40 S**: 96 W, max. 20 m, 60 W, max. 8 sec. – 2000 lux, 5% max. – 4 hours max.
- **IS 10 S**: 96 W, max. 24 m, 60 W, max. 8 sec. – 2000 lux, 5% max. – 4 hours max.

#### Technical Specifications

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<thead>
<tr>
<th>Product</th>
<th>Max. output</th>
<th>Detection zone</th>
<th>Sensor reach</th>
<th>Time setting</th>
<th>Twilight setting</th>
<th>Watt-o-</th>
<th>Manual override</th>
<th>Soft light start</th>
<th>Minisensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 130-2</td>
<td>600 W</td>
<td>130° with sneeze-guard</td>
<td>12 m max.</td>
<td>8 sec. – 35 min.</td>
<td>2 – 2000 lux</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>IS 140-2</td>
<td>1000 W</td>
<td>140° with sneeze-guard</td>
<td>14 m max.</td>
<td>8 sec. – 35 min.</td>
<td>2 – 2000 lux</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>IS 180-2</td>
<td>1000 W</td>
<td>180° with 90° angle of aperture</td>
<td>16 m max.</td>
<td>10 sec. – 180°</td>
<td>2 – 2000 lux</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>IS 240 DUO</td>
<td>1000 W</td>
<td>240° with 180° angle of aperture</td>
<td>12 m max.</td>
<td>10 sec. – 180°</td>
<td>2 – 2000 lux</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>IS 360 DURO</td>
<td>1000 W</td>
<td>360° with 180° angle of aperture</td>
<td>12 m max.</td>
<td>10 sec. – 180°</td>
<td>2 – 2000 lux</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>IS 1</td>
<td>500 W</td>
<td>120°</td>
<td>10 m max.</td>
<td>8 sec. – 35 min.</td>
<td>2 – 2000 lux</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>IS NM 360</td>
<td>1000 W</td>
<td>360° with sneeze-guard</td>
<td>8 m all-round</td>
<td>5 sec. – 15 min.</td>
<td>2 – 2000 lux</td>
<td>4 hrs max.</td>
<td>–</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>IS LED 2in1</td>
<td>1000 W</td>
<td>360° with sneeze-guard</td>
<td>8 m all-round</td>
<td>5 sec. – 15 min.</td>
<td>2 – 2000 lux</td>
<td>4 hrs max.</td>
<td>–</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

#### Photoelectric lighting controller
- **NightMatic 2000 Vario**: 1000 W, –, –, –, – | 2 – 10 lux | – | – | – |
- **NightMatic 3000 Vario**: 1000 W, –, –, with night-time mode, 0.5 – 10 lux | 2 – 2000 lux | 4 hrs max. | – | Yes |
- **LN 1**: 11 W/20/7 included | – | – | 5 – 200 lux | Yes |
- **SensorLight plus**: 3x2 W/60 W, 15 W/75 W, 11 W/60 W | – | – | 2 – 2000 lux | 4 hrs max. | – |

#### SensorLights for outdoors
- **L 265 S**: ESL 48 mm dia. / E 27, 360° with sneeze-guard, 8 max. – 5 sec. – 2000 lux, 5% max. – 4 hours max. – Yes
- **L 265 S**: ESL 48 mm dia. / E 27, 360° with sneeze-guard, 8 max. – 5 sec. – 2000 lux, 5% max. – 4 hours max. – Yes
- **L 270 S**: 2x40 W/G9, 360° with sneeze-guard, 8 max. – 5 sec. – 2000 lux, 5% max. – 4 hours max. – Yes
- **L 330 S**: 60 W, max. – 8 sec. – 2000 lux, 5% max. – 4 hours max. – Yes
- **L 309 S**: 60 W, max. – 8 sec. – 2000 lux, 5% max. – 4 hours max. – Yes
- **L 262 S**: 100 W, max. – 8 sec. – 2000 lux, 5% max. – 4 hours max. – Yes
- **L 11 / L 12**: 60 W, 180° | 10 m max. | 8 sec. – 35 min. | 2 – 2000 lux | – | – |
- **NightMatic 2000**: 100 W, 180° with 90° angle of aperture | 12 m max. | 5 sec. – 35 min. | 2 – 2000 lux | 0 – 50% max. | 4 hours max. – Yes
- **NightMatic 3000**: 60 W, max. – 8 sec. – 2000 lux, 5% max. – 4 hours max. – Yes
Motion detectors and SensorLights for outdoors

STEINEL offers a variety of presentation displays that attractively showcase our products. The cleverly thought-through systems optimise the way products are presented and help to boost sales. STEINEL’s brand identity is underscored by numerous sales-promoting details.
SensorLights for indoors
SensorLights for indoors are quickly gaining popularity. With our presentation displays, you can offer your customers a wide selection of innovative brand products and secure growth in turnover from a product group with a promising future.

We will be pleased to team up with you and create display shelves tailored to your specifications.

Shelves displaying the ideal range of products to boost your turnover and earnings.

Brand presentation with monitor and boxed products on shelves

We will be pleased to team up with you and create display shelves tailored to your specifications.

Brand presentation with overhead sample products
Boost your sales –
Take advantage of the many additional displays
IP Ratings and Protection Classes

**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.

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### IP Ratings and Protection Classes

<table>
<thead>
<tr>
<th>1st digit</th>
<th>Protection against ingress of foreign objects</th>
<th>Protection against contact/application</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No particular protection against ingress of solid, foreign objects.</td>
<td>No particular personal protection against accidental contact with live and/or moving parts.</td>
</tr>
<tr>
<td>1</td>
<td>Protection against ingress of solid, foreign objects in a diameter &gt; 50 mm.</td>
<td>Protection against accidental contact by large surfaces of the body (back of the hand) with live and/or moving parts.</td>
</tr>
<tr>
<td>2</td>
<td>Protection against ingress of solid, foreign objects in a diameter &gt; 12.5 mm.</td>
<td>Protection against finger contact with live and/or internal moving parts. Specific accessible areas.</td>
</tr>
<tr>
<td>3</td>
<td>Protection against ingress of solid, foreign objects in a diameter &gt; 2.5 mm.</td>
<td>Protection against contact between live and/or internal moving parts and tools, wires or similar objects in a thickness of &gt; 2.5 mm. Generally accessible parts.</td>
</tr>
<tr>
<td>4</td>
<td>Protection against ingress of solid, foreign objects in a diameter &gt; 1 mm.</td>
<td>Protection against contact between live and/or internal moving parts and tools, wires or similar objects in a thickness of &gt; 1 mm. Generally accessible parts.</td>
</tr>
<tr>
<td>5</td>
<td>Protection against harmful, internal dust deposits. Ingress of dust is not entirely prevented. The quantity of dust entering must not interfere with operation of the equipment (enclosure).</td>
<td>Complete protection against contact with live and/or internal moving parts. Areas exposed to short-term high dust deposits.</td>
</tr>
<tr>
<td>6</td>
<td>Protection against ingress of dust (dust-tight).</td>
<td>Complete protection against contact with live and/or internal moving parts. Generally accessible areas.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2nd digit</th>
<th>Protection against ingress of water</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No particular protection.</td>
<td>In dry areas.</td>
</tr>
<tr>
<td>1</td>
<td>Protection against vertically falling drops of water (protection against dripping water). Shall have no harmful effect.</td>
<td>In areas exposed to moisture with component not positioned exactly vertically (e.g. condensation water).</td>
</tr>
<tr>
<td>2</td>
<td>Protection against vertically falling drops of water (protection against dripping water). Shall have no harmful effect.</td>
<td>In areas exposed to moisture with component not positioned exactly vertically (e.g. condensation water).</td>
</tr>
<tr>
<td>3</td>
<td>Protection against water falling at an angle up to 15° from the vertical. Shall have no harmful effect.</td>
<td>Areas exposed to rain and not splashing water.</td>
</tr>
<tr>
<td>4</td>
<td>Protection against water splashing against equipment (enclosure) from any direction. Shall have no harmful effect against spraying water.</td>
<td>Areas exposed to rain and splashing water (e.g. areas exposed to passing vehicles).</td>
</tr>
<tr>
<td>5</td>
<td>Protection against water projected by a nozzle against equipment (enclosure) from any direction. Shall have no harmful effect.</td>
<td>Areas exposed to moderately powerful water jets.</td>
</tr>
<tr>
<td>6</td>
<td>Protection against heavy sea or powerful jets of water. Water in harmful quantities must not enter the equipment (enclosure) (protection against floodwater).</td>
<td>Areas exposed to heavy wash and floodwater (e.g. jetties).</td>
</tr>
<tr>
<td>7</td>
<td>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).</td>
<td>Areas washed over temporarily or covered with snow for a prolonged period.</td>
</tr>
<tr>
<td>8</td>
<td>Equipment housing is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer (submersion).</td>
<td>In submerged function.</td>
</tr>
</tbody>
</table>

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**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 62262.

<table>
<thead>
<tr>
<th>IK</th>
<th>Test</th>
<th>Energy in joules</th>
</tr>
</thead>
<tbody>
<tr>
<td>IK 00</td>
<td><img src="image" alt="IK 00 Test" /></td>
<td>0</td>
</tr>
<tr>
<td>IK 01</td>
<td><img src="image" alt="IK 01 Test" /></td>
<td>0.15</td>
</tr>
<tr>
<td>IK 02</td>
<td><img src="image" alt="IK 02 Test" /></td>
<td>0.2</td>
</tr>
<tr>
<td>IK 03</td>
<td><img src="image" alt="IK 03 Test" /></td>
<td>0.35</td>
</tr>
<tr>
<td>IK 04</td>
<td><img src="image" alt="IK 04 Test" /></td>
<td>0.5</td>
</tr>
<tr>
<td>IK 05</td>
<td><img src="image" alt="IK 05 Test" /></td>
<td>0.7</td>
</tr>
<tr>
<td>IK 06</td>
<td><img src="image" alt="IK 06 Test" /></td>
<td>1</td>
</tr>
<tr>
<td>IK 07</td>
<td><img src="image" alt="IK 07 Test" /></td>
<td>2</td>
</tr>
<tr>
<td>IK 08</td>
<td><img src="image" alt="IK 08 Test" /></td>
<td>5</td>
</tr>
<tr>
<td>IK 09</td>
<td><img src="image" alt="IK 09 Test" /></td>
<td>10</td>
</tr>
<tr>
<td>IK 10</td>
<td><img src="image" alt="IK 10 Test" /></td>
<td>20</td>
</tr>
</tbody>
</table>

---

**IK 0X**

IK = Code letters (international mechanical protection)

0X = IK class of impact protection (from 00 to 10)
Protection classes

Safety 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.

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

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

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 label
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.