



The apartment building

The right lighting greatly reduces the risk of accidents in dark outdoor spaces. Pathway lights or exterior wall luminaires come with light-sensitive sensors that measure the level of ambient light. Once this is too low, the light switches ON without human action.

Entrance areas and garage entrances, in contrast, rarely need constant illumination all through the night. This is where lights with motion detectors are used so as to ensure they are sufficiently illuminated whenever necessary. These use heat-sensitive sensors to detect moving people or cars. Light switches ON whenever movement occurs within a motion sensor's detection zone. Switching lights off when they are not needed minimises electricity costs, eases the strain on lamps, reduces the frequency with which it is necessary to change a lamp and helps to protect the environment by producing less waste.

Combining cutting-edge LED technology, intelligent sensor technology and wireless connectivity generates high energy savings and gives residents a high level of energy efficiency and the lighting they need.

Corridors and stairwells also require optimum illumination so that people can move about safely and find their bearings. However, with many of these areas only being used on an irregular basis, constant illumination wastes energy. An intelligent lighting management system ensures optimum visibility and reduces energy consumption by activating lights only when they are needed. With intelligent lighting systems, safety is the main priority. But there is no need to compromise on aesthetically pleasing design.

On top of this, efficient solar-powered lights are the innovation in lighting technology. To work, they are provided with all of the energy they need from sunlight, incurring no additional electricity costs. Today, solar-powered lights are capable of delivering a maximum amount of light with a very low energy consumption.

Technology is our passion

Pioneering spirit and experience for making buildings more intelligent

We have consistently evolved from pioneer to technology and innovation leader in sensor-controlled lighting since 1959. Intelligent products of world renown are created at our own development centres. This is where we set store by innovation and durability.

STEINEL has been developing solutions for the future for more than 70 years. In 1959, Heinrich Wolfgang founded STEINEL in Rheda-Wiedenbrück. With the arrival of Ingo Steinel, who joined the management team in 2004, STEINEL has consistently evolved from pioneer to technology and innovation leader in the sensor-controlled lighting, heat-tool and hot-melt glue applicator markets. STEINEL has been using high-frequency sensor technology for detecting movements in spaces and buildings since 2002. Today, products

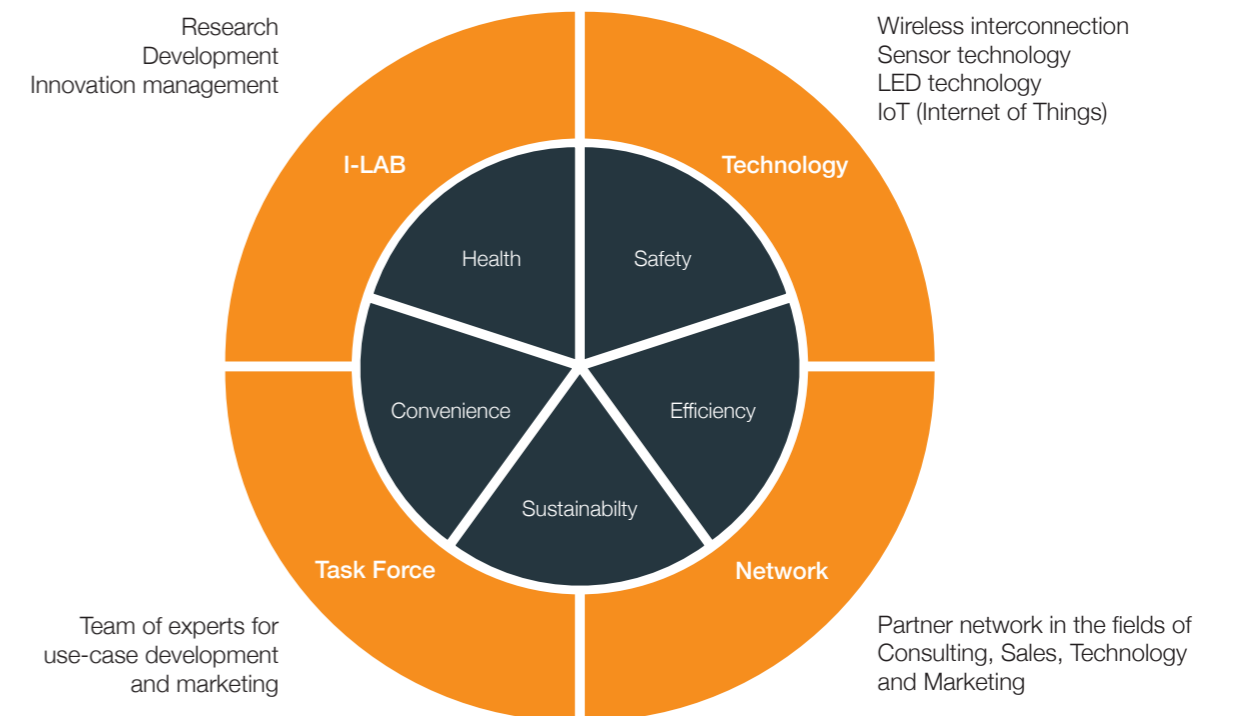
and solutions are available under the STEINEL brand for DIY enthusiasts and professional users alike. All products are manufactured by company-owned factories in Germany, Switzerland, Romania, Czech Republic and the Republic of Moldova. Made in Europe is STEINEL's formula for success. Partners and subsidiaries sell our products in 62 countries. With more than 1,600 employees, we are a leading global supplier for sensor-controlled LED technology, ensuring that there's always suitable light in any situation.



The STEINEL portfolio for Building Intelligence

More and more, intelligent systems are being used for controlling all sorts of building types. Buildings are becoming intelligent. This makes it possible to save energy, automate recurring processes, facilitate the usability and operation of rooms and installations and achieve a completely new dimension of function and flexibility. This is where our new generation of sensors will make a key

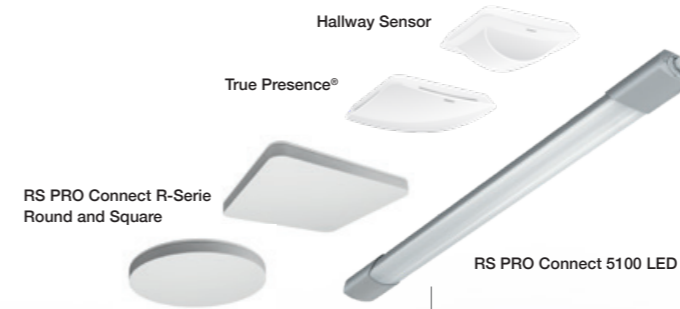
contribution. They not only control light but also count people and detect true presence. This is STEINEL's vision of building intelligence. In an innovation lab, a task force will continue to work on network solutions, and STEINEL Systems too will help us make buildings more intelligent in the future.



Sensor-switched lights

Added safety and security

The STEINEL "Connected Lighting" solution for residential complexes minimises running costs for the owner while at the same time providing maximum comfort and safety for residents – as well as efficient lighting from LED technology and sensor systems.



Intelligent sensor-switched lights

The lighting switches on in response to detected movements and the level of ambient light that is measured. Areas in which nobody is present are illuminated at a basic light level of 10 - 50 %.



Lighting control via STEINEL Smart Remote app

The LED transformation, increasing digitalisation as well as connectivity are changing the lighting market. Today, lights are interconnected without cables. This means they can be quickly started up and reconfigured.



Preventing accidents

Unlit or poorly illuminated access paths and driveways are frequently the cause of accidents. With optimum illumination, vandalism and break-ins are also less likely than for buildings half-shrouded in darkness.



Connectivity

The perfect sensor and sensor light network is one that's wireless and can be regulated by using an app. The lights are connected via Bluetooth for easy group parameterisation.



Light only when it's needed

On-demand lighting in basements and storerooms can be controlled by using presence detectors or provided by lights with a built-in sensor.

Saving costs

Garages, carports and car parks have great energy-saving potential because lighting is only needed sporadically. High-frequency technology lets the sensors detect movements, providing maximum operating reliability. STEINEL solutions are a combination of sensor technology, wireless connectivity and the very latest LED technology.



Providing more safety and security

Having the right lighting outside of buildings is extremely important. It provides the necessary safety and security when it is dark. Sensor-switched lights switch on in response to movement and then switch off again.





The STEINEL Service portfolio

- ✓ Broad range of sensor-switched lights and sensors
- ✓ Products in a variety of fashionable, stylish designs
- ✓ Installation and start-up
- ✓ Planning, consultancy and concept definition
- ✓ App for using and altering system settings

Smart solutions Benefits

- Turn-key solutions from a single source
- Wireless interconnection for fast adjustments
- Precise settings via smartphone
- High level of energy efficiency and low operating costs from a combination of LED technology, connectivity and sensor systems
- Professional planning through our own planning office
- Professional support with many years of experience in building automation

STEINEL has the responsibility for everything from planning to everyday operation. The customer has only one contact person for lighting matters.

Lighting controlled to switch on when needed provides greater safety and security.

STEINEL products provide optimum lighting 24 hours a day. Highly efficient LED technology and first-class sensor technology combine energy efficiency with maximum practical convenience. Wireless interconnection keeps lighting installation work to a minimum, makes planning easier and adds flexibility. No dark spots anywhere around the building

thanks to dimmed lighting when no one is there: light is only ever switched on where it is needed. Facility management employees are provided with a free app which gives them the capability of subsequently changing or adjusting settings to suit the products used (e.g. stay-ON time or light levels.)

The "Connected Lighting" system covers all areas of the apartment building:

- Corridors and stairwells
- Driveways
- Entrance areas and canopy roofs
- Equipment and basement rooms
- Car parks, carports and garages

Connected to the future.

The intelligent light sensor system combines optimal light with very simple installation and connection options. The RS PRO Connect R series is great precisely because it caters to tailored needs and has a great reduced design making it suitable for multiple applications.



All settings and connections are easy and quick to set up using the app. Available for Android and iOS.

STEINEL's product portfolio for the Apartment Building segment

All products have an integrated Bluetooth module for interconnection and configuration.



RS PRO Connect 5100 LED

The new RS Pro Connect 5100 LED sensor-switched diffuser luminaire is installed in next to no time for an energy-efficient, convenient lighting solution to replace an old diffuser luminaire.



XSolar Sol-O and LH-N

No connection to the power supply, no energy costs and yet 365 days of light a year. The sensor-switched outdoor light with solar panel in monocrystalline glass as well as extra powerful lithium-iron phosphate rechargeable batteries make this possible. With a 360° infrared mini sensor, 6 m reach, 140 lm luminous flux and patented, intelligent microprocessor control system – including night-light function and soft light start.



RS PRO Connect R-Series

High-precision HF presence sensor, warm and neutral white options delivering up to 3200 lumens of light. Backlight, basic light level, emergency light powered by rechargeable battery, flexible stay-ON time and connectivity to create zone groups. All configurable via an app.



XLED home 2

Protect yourself and your home. With the number of burglaries on the increase, people's need for security is growing. STEINEL can help you make your home safer and more secure. The XLED home 2 sensor-switched floodlight provides you with an effective way of deterring uninvited night-time guests.



L 810 LED iHF

With the sensor-switched L 810 iHF outdoor light as LED uplighter and downlighter, we have for the first time managed to make a light's sensor completely invisible – without compromising on first-class design and technological perfection. It provides stunning upward and downward lighting.



iHF 3D

Makes all the difference outside. Precisely where you want it to. iHF 3D motion detector, ideal for facades, carports, parking areas and patios. 160° iHF-sensor with 1-7 m reach, 3D aerial technology, identifies and distinguishes between moving objects, no inadvertent triggering any more by small animals, very low or high temperatures. Detects everything equally well whichever direction it is approached from.



Spot Sensor LED Strahler

The robust spotlights can be swivelled horizontally (180°) and vertically (90°), and can be easily connected. With 520 lm light output and warm white 3000 K, they ensure perfect light around the house.



L 825 LED iHF Connect

The outdoor sensor light illuminates your building entrance in style. It's easy to control via Bluetooth and the app. It's also equipped with a high-frequency sensor, which makes it possible to detect people reliably from any direction.

Intelligent lighting

Integrating three innovative technologies into the lighting systems permits energy savings while at the same time enhancing the quality of light:

- LED** LED is the most efficient light source to date and comes with key additional qualities. It can be switched on almost without any wear, works equally well at low ambient temperatures and can be dimmed for attractive lighting effects.
- HF sensor:** STEINEL high-frequency sensors instantly identify movements without "sensitivity" being restricted by ambient temperature and the direction in which the object being detected is moving.
- Wireless connection:** intelligently controlling lights on a wireless basis provides the framework for taking full advantage of the potential of LED lighting. The lights exchange information on movements detected and light levels measured and, in this way, ensure efficient on-demand illumination.

But in the meantime, Bluetooth can do even more: mesh networking

Still relatively new, this function creates a meshed network in which several nodes are interconnected and provide a fail-safe network with a long range. With the right software, Bluetooth Mesh can also link and control intelligent lights – transmission from node to node even has a potential range of one kilometre.



