Solutions for
# INDUSTRIAL SETTINGS

**GEWISS**

Ed. **02**
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**2019**
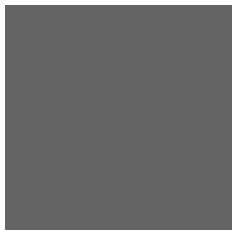
GEWISS

Development as a constant feature of management is the philosophy that has consistently guided the decisions made by GEWISS, from its establishment until today. From the very first day it was founded, the Company has been creating superb high-quality solutions. Over the years, this vocation has become part of a business model that is based above all on three key elements - continuous investment in research and development, staff training at every level, and the ongoing optimisation of production facilities.
This has enabled GEWISS to establish itself as a point of reference for the market in the production of **solutions and services for home & building automation, for the protection and distribution of energy, for electric mobility and for smart lighting.**

# SAFETY, SERVICE CONTINUITY AND ENERGY SAVINGS IN ALL INDUSTRIAL CONTEXTS

GEWISS provides solutions for operator safety and equipment and machinery efficiency for all types of production environment: lighting, electrical protection and industrial connections compose the complete electrical installation system for all types of environments.
GEWISS works with a key goal in mind - to provide solutions for smart buildings which offer the highest possible levels of comfort, safety and energy savings.
The Industry 4.0 revolution will lead us all into a future which is based on increasingly integrated, smart system:  GEWISS mission is to offer customised solutions to all operators of the sector, supporting professionals in both the pre- and post-sales phases, also through tailor-made products and projects'.

**GEWISS**

**ESALITE**
Devices for industrial LED lighting

**Road [5]**
LED street floodlights

**Smart [4]**
Devices for LED floodlighting

**CVX and ReStart**

**Smart [PRO] 2.0**
Devices for LED floodlighting

**Urban [O₃]**
Urban lighting system

**Trilight**
Devices for parks and gardens

**Mavil**
**BFR and BRN**
Cable trays

**IB and QDIN**

**46 QP**

**IEC 309 HP**

**JOINON**
Electric vehicle recharging unit

**Smart [3]**
LED watertight luminaires
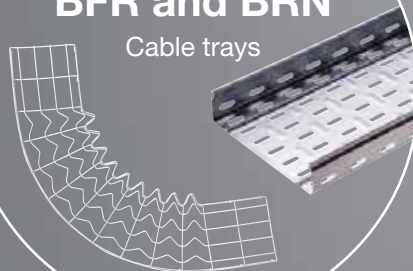
# SAFETY AND CONTROL

In environments characterised by demanding working conditions, production continuity in all phases is an absolute priority. For this reason, GEWISS manufactures and supplies an entire system of products (industrial lighting, modular and MCCB devices, distribution boards, socket-outlets and plugs) that can operate even under the most extreme conditions.

## ReStart Autotest with WIFI

ReStart Autotest devices are ideal for installations in unsupervised systems, where fast and continuous maintenance is not possible. The periodic, automatic testing of the residual current protection's efficiency (automatically occurring every 28 days) doesn't requiry manual operator intervention is required. To ensure maximum safety in different areas of the application, 2P and 4P versions are available for single-phase and three-phase distribution systems.
By means of a Wi-Fi interface, Autotest can be connected to the Internet, providing information regarding the system status at all times. GEWISS app enables users to monitor the status of the residual current device in real time, operating self-diagnosis remotely.

**The proper functioning of the residual current device can be tested at any time.**

- **DETAILS ON AUTOTEST.** Possibility to have details about date, time and outcomes of the most recent Autotest operation.
- **CONTINUOUS UPDATES.** Simple notifications provide the user with information on the status of the circuit breaker (ON/OFF), as well an alert when there is no power to the system.
- **SAFETY AND SERVICE CONTINUITY.** ReStart Autotest is the only device on the market that can carry out periodic safety testing on the residual current, without cutting power to the system. This function is due to special GEWISS-patented bypass contacts.

## Network analyser

Facilitating real-time monitoring of consumption in order to manage and optimise energy as simply as possible is a key goal for GEWISS. Within this context, control becomes fundamental - to be understood as the measurement of active and reactive energy values (delivered and absorbed) and of instant active and reactive power (delivered and absorbed).

**Measure effectively to improve energy efficiency.**

- **ENERGY METERS AND NETWORK ANALYSERS.** In order to effectively control an electrical system, it is crucial to measure all the necessary parameters. For GEWISS, the goal is to guarantee the consistent quality of the electricity supply, whilst optimising consumption.
- **DATA AVAILABILITY.** When combined with the KNX interface, the GEWISS energy meter enables the values measured to be sent on the KNX BUS. When used together with the MODBUS interface, it enables the values measured to be sent on the Modbus RS485. The network analyser allows all of the quantities measured (V, I, f, W, VAR, VA, kWH, kVARH, Power factor) to be reported remotely via the RS485 output.

## Surge protective device 1+2

Developing and producing electro-technical products means giving shape to the concept of safety first and foremost, placing it at the heart of the Company's development plan, ahead of any other business goal. This awareness is behind the products offered by GEWISS, designed to guarantee total safety in every context. An idea that is based on two core elements: the protection of people and things and the continuity of service.

**The GEWISS range of surge protective devices enables direct or indirect damage to people or things to be prevented.**

- **INTEGRATED RANGE.** The LST range can be perfectly integrated with the other GEWISS protection devices, for a pleasant aesthetic result.
- **REMOTE CONTROL.** The integrated auxiliary contact makes it possible to control the operating status of the surge protective device from a distance.
- **GUARANTEED PROTECTION.** With versions 1+2, the electrical circuit can be protected from both direct and indirect lightening strikes with a single device.
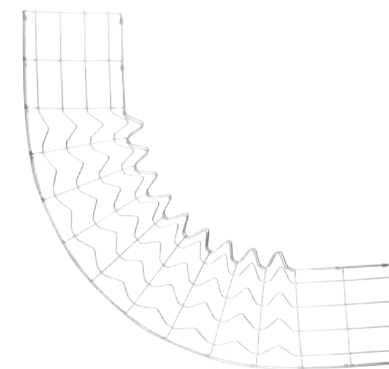
# THE EVOLUTION OF CONNECTIONS AND ENERGY DISTRIBUTION

Products that look to the future, designed and built to bring energy to the workplace: GEWISS offers an advanced range of junction boxes, special containers, enclosures, distribution boards and devices for industrial connections.

## IEC 309 HP - Plugs and socket-outlets which meet IEC 309 Standards

GEWISS offers a range of socket-outlets and plugs ranging from 16A to 125A, guaranteeing high levels of reliability, optimal functionality, excellent performance and cutting-edge technical features. The devices are characterised by a common, modern and functional design, making them instantly recognisable and adding extra value to the entire GEWISS system of industrial connections.

### An advanced connection system

- **TOTAL PROTECTION.** The first and only solutions in the electro-technical sector to offer a degree of protection of IP66/IP67/IP68/IP69, the IEC 309 HP socket-outlets and plugs prevent dust and powerful jets of water from entering, even at high pressures and temperatures. This feature makes these GEWISS solutions particularly suitable for the food industry.
- **GREEN MATERIALS.** With a view to providing greater safety in case of fire, all products in the range are made with halogen-free materials (pursuant to EN50267-2-2) and can also be declared silicon free, thus being suitable for use in special environments.

## 46 QP - Watertight surface-mounting boards

For control and automation in both standard and more demanding, heavy-duty applications (industrial systems, robotics, on-board devices and electric/electronic compartments), GEWISS has created a comprehensive and innovative range of versatile solutions that are easy to install, guaranteeing maximum safety for both people and things.

### GEWISS, the ideal partner for energy control and distribution systems.

- **ENERGY DISTRIBUTION BOARDS.** A complete system of energy distribution solutions which can be combined with fixed or interlocked industrial socket-outlets, for both fixed and mobile applications.
- **SURFACE-MOUNTING SYSTEM.** The system of containers includes polyester panels which can accommodate up to 180 modules, enclosures, junction boxes, conduits and accessories, for the creation of complete surface-mounting systems.
- **70 RT HP ROTARY SWITCH DISCONNECTORS.** These control devices for machines, motors and applications with similar loads in the industrial sector are essential for ensuring the safe sectioning of electrical lines/networks. GEWISS switch disconnectors are available in both plastic and metal boxes up to 160A, with a high degree of protection (up to IP66/IP67/IP69).

## Mavil - Cable trays

The cable tray is the backbone of an industrial system. GEWISS and Mavil offer an innovative steel cable trays system (flush and slotted) to meet all installation requirements, from the simplest to the most complex and demanding ones.

### A solution for every need

- **BFR RANGE.** The wire cable trays are suitable for use in both small installations and large industrial applications, and meet all capacity and containment requirements. In the HP finish version, the BFR range ensures good resistance to corrosion even in very harsh environments.
- **BRN RANGE.** The galvanised steel slotted cable trays are available in different sizes, enabling them to be used in installations with high cable loads. An extensive range of path elements and accessories for surface or suspended mounting complete the offer.

# SOLIDITY, MODULARITY AND ENERGY SAVINGS

In industrial applications, lighting accounts for over 40% of total energy consumption. Choosing the right solution can optimise both energy efficiency and lighting performance, facilitating visual tasks for operators and supporting the execution of industrial processes. High-quality materials guarantee optimum levels of resistance of the lighting devices in all application environments.

## ESALITE - Devices for industrial LED lighting

The hexagon, as Euclid suggested, is a regular shape carrying other geometric figures within,, such as triangles. This concept of formal regularity, combined with a scalable modularity approach is the source of inspiration for ESALITE, the new range LED industrial lighting assuring an outstanding performance in both indoor and outdoor environments. ESALITE devices, with built-in DALI (Digital Addressable Lighting Interface) brightness control, include functional high-bays as well as architectural floodlights for green areas and general outdoor lighting.

### Regular shape, robust materials and exceptional modularity for all industrial contexts.

- **MODULAR.** The hexagonal shape, the use of die-casts for the body of the device and the wide choice of lenses and LEDs combine with an essential design, while achieving the best balance between performance and quality. Enabling different lighting solutions, these devices versatility is the answer to a host of different application needs and environments (outdoor applications for functional and architectural purposes included). Finally, the mechanical fixing brackets and the dedicated accessories make the new range even more complete.
- **SOLID.** With great resistance to dust, humidity, shocks and acts of vandalism, this range is ideally suited for all industrial environments where strength and reliability are main requirements.

## Smart [3] - LED watertight luminaires

The LED Smart [3] watertight luminaires, which feature a compact and elegant design, ensure excellent performance and high resistance to external agents, thanks to their high degree of protection (IP66-IP69). This range of devices is suitable for any application environment, and can be used even a considerable. Installation is quick and simple, and maintenance costs are reduced, thanks to the plug&play system and through-wiring versions.

### The perfect solution for optimal relamping operations in renovation projects.

- **EFFICIENT.** Smart [3] devices guarantee high visual comfort and an average reduction of energy consumption of 50% compared to traditional devices, along with outstanding performance (up to 120 lumens/W). The option to incorporate dimming (DALI, 1-10V) contributes significantly to energy efficiency in new and renovated buildings.
- **VERSATILE.** The transparent or opal prismatic diffuser makes Smart [3] the ideal solution not only for the industrial settings but also for contexts requiring an attractive design and an ease of installation of the lighting devices. The variable assembly centre distance also contributes to the versatility of the range, whilst making installation extremely fast.

## Smart [4] - Devices for LED floodlighting

The use of powerful LEDs with high colour performance, the high efficiency optical systems (high bays or lenses) and the availability of different configurations make Smart [4] portfolio ideal for minimising operation and maintenance costs whilst optimising lighting performance.

### The sustainable solution that ensures maximum flexibility and reduced energy consumption.

- **HIGH PERFORMANCE.** Smart [4] LEDs are carefully selected in order to obtain the best possible performance in real usage conditions (providing light where it is needed). Moreover, the latest generation LEDs enable significant increases in lighting performance, with a lifespan of up to 120,000 hours and lower energy consumption.
- **MULTI-FUNCTIONAL.** The diverse selection of available and configurations, in accordance with various system architectures, allows GEWISS to offer solutionsable to meet different lighting requirements, with both horizontal and vertical installation options for indoor and outdoor environments. Furthermore, environmental sustainability certification makes Smart [4] range the perfect solution for all newly-conceived projects with low environmental impact and for the most demanding applications thanks to special ATEX, UL, HT versions resistant under extreme conditions..

# The system that pays itself back

# Smart Lighting

GEWISS aims at enhancing the **advantages of energy savings**: both relamping and new, LED devices projects can lead to better performing lights in sport facilities. To do so, a free, **preliminary inspection of the courts** where the installation will take place is performed together with a **detailed evaluation** of the existing system, in order to propose the **best technical offer**. When feasible, this is combined with a customised financial plan to support the investment.
A turnkey solution that comprises lighting devices installed according to GEWISS high-quality and efficiency standards.

**A simple and convenient choice.**
Due to relamping, a **return on investment of less than three years** is guaranteed.
In fact, the LED devices by GEWISS allow energy savings of up to 80%. In case the deferred payment option is available, the periodic electric bills are covered **without any initial payment**.
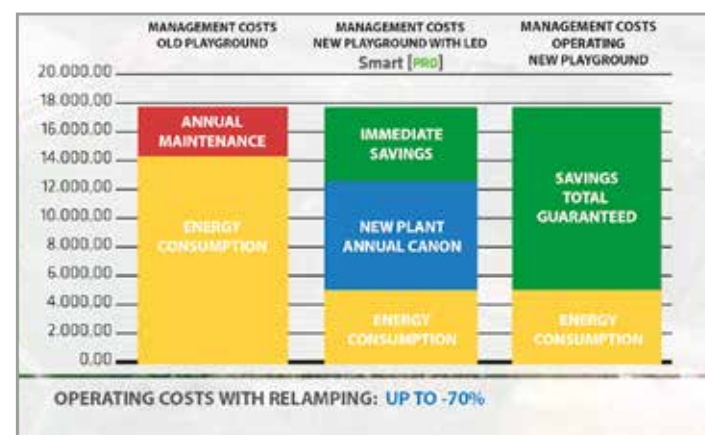
## Sensors
A complete system of sensors detects all access to the playing fields, in order to switch on the lamps only when needed.

## Dimmers
All products are dimmable, to guarantee maximum optimisation in terms of energy, visual comfort and savings.
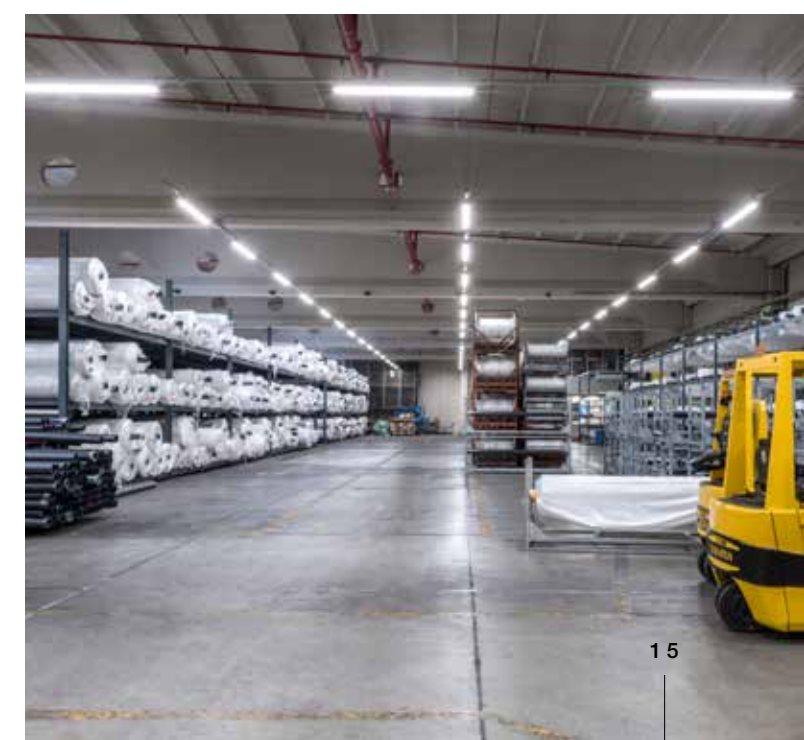
## Scenes
The sensors and dimming function allow to create lighting scenarios according to the specific needs of the facility, so reducing consumption and guaranteeing maximum visual comfort too.
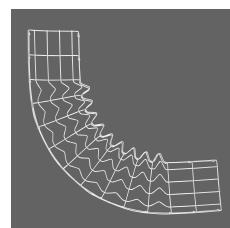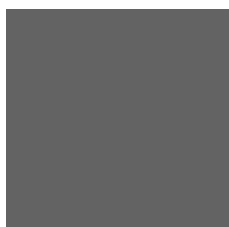
## Remote control
The management and supervision of the main system's functions can be operated remotely, via smartphone or tablet, thanks to the wireless technologies (Bluetooth/Zigbee) connected to the devices.

DIRECT PURCHASE

DEFERRED PAYMENT

14

15

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