Light is flexible
Siteco Modario®

The flexible trunking system for challenging lighting demands in industry and retail. Light is OSRAM
Light is flexible
Modario®

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Modario®

Flexibility all along the line

Modario® is a modular concept consisting of trunking rails, luminaire inserts and accessories, and the system is ideal for a wide variety of lighting tasks in the shop, industry and public application sectors.

Whether with high or low protection ratings, for supermarkets, discounter stores, DIY stores, production halls, warehouses or car parks – Modario® lighting solutions meet a wide range of needs that include general lighting and lighting accents, and always with a high light quality.
For variable lighting solutions

- Energy-efficient and low maintenance with LED or T16 lamp technology
- Modular concept for flexibility and individual configuration
- Simple, flexible mounting
- High light quality, high visual comfort
- Compact construction with timeless, functional design
Systematic diversity

All application situations have their special requirements, and often challenges as well. No problem at all for Modario®, because the inherent diversity of the system is also its major strength.

**Applications**

**Industrial operations** with challenging demands are also eminently served by Modario®: high protection ratings mean the luminaires are highly resistant to dust, spray water, heat and sparks. Special modules with prismatic technology ensure that optimal, glare-free conditions for work exist for employee workstations.

**Public areas** can be illuminated by Modario® with various functional options, whereby lighting in such applications aids orientation and also communicates a feeling of personal safety. It also simplifies particular processes, such as manoeuvring and parking in car parks.

**For shops and markets**, Modario® has special spotlight inserts in addition to the luminaire inserts for pleasant, homogeneous general lighting. The spots achieve the sophisticated presentation of goods and arouse customer desires to purchase.
A kit full of possibilities

Suspensions, trunking rails and connector elements

Luminaire inserts LED

Luminaire inserts T16

Optical accessories for T16 inserts
With its modular design consisting of trunking rails, luminaire inserts and optical accessories, Modario® can be configured both simply and flexibly for specific needs. All system components are compatible and are mounted without tools. LED modules are especially practical with integrated optics, which additionally simplifies the mounting process: less parts, less work.

The identically constructed Modario® LED modules are available in two sizes and four reflector types:

1. symmetric narrow distribution
2. symmetric wide distribution
3. asymmetric distribution
4. Shop Reflector

Modario® IP20/IP40
Modario® IP64
A Plus for efficiency

High system efficiency is the major prerequisite, although efficiency is more than just lumens per watt, and consists of several factors. All Modario® components have been optimised to achieve best possible illumination results from energy used. The LED modules consume low levels of energy, and the optical system ensures precise guidance and control of light. At the same time, sophisticated thermal management protects the electronic components, and all with minimised effort for installation and maintenance, a further factor to be considered when assessing efficiency and economy.

Flexible technology (LED and T16)
Modario® trunking systems are available with two technologies: either with standard T16 lamps or with state-of-the-art LED modules with various lumen packages. With T16 lamps, suitable lamps and thus the most efficient solution are specified according to the ambient temperature and technical integration of the luminaire with regard to its optimal operating temperature.

Intelligent thermal management
Durability and service life benefit when the heat from light sources and electronic components is efficiently dissipated, and Modario® uses special thermal management to achieve optimal, constant operating temperatures. Ventilation slots in the reflector have a cooling effect with inserts for T16 lamps, and with LED modules the circuit boards are connected to a special aluminium material that dissipates heat with high efficiency. This in turn makes the LED technology suitable for a wide temperature range.
Precise light control
Modario® specular reflectors are designed to guide light precisely to where it is needed. Vaporised, ultra-pure aluminium (MIRO®) is used as reflector material to enable almost loss-free light control.
Into the future with LED

Lighting installations in many industry applications are in need of updating. With Modario® LED modules, obsolete lighting can be replaced with efficient and cost-saving systems. And with LED modules this is especially easy: they’re mounted simply to rails without tools via rotary catches. The benefits of LED technology during operation then immediately become apparent. A high luminous efficacy means the modules consume low levels of energy over a long service life, the modules are sealed and therefore feature low maintenance, and superfluous, high-cost relamping becomes a thing of the past.

### Lighting refurbishment:
- **Production hall, semi-fine machine processing**
- **Lighting requirements in accordance with EN 12464-1**
  - \(E_\text{av} > 300 \text{ lx}\)
  - Maintenance factor: 0.67
  - Height of evaluation surface: 0.75 m

### Room dimensions:
- 30 x 50 x 8.5 m (standard reflection factors, saw-tooth roof form)
- Reflection value: 70/50/20 (ceiling/wall/floor)
- Colour rendering index: CRI 80
- Mounting height: 7 m
- 4160h/year, utilisation period: 12 years, 0.15 €/kWh (with 3% annual price increase)

### Energy Economy

<table>
<thead>
<tr>
<th><strong>Obsolete T26 system</strong></th>
<th><strong>Obsolete T16 system</strong></th>
<th><strong>New LED system</strong></th>
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<tbody>
<tr>
<td>trunking system</td>
<td>Modario® 1 x 80 W</td>
<td>Modario® LED, 6200 lm</td>
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<td>2 x 58 W, LLCG</td>
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<table>
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<tr>
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<td><strong>Power consumption/luminaire</strong></td>
<td>136 W</td>
<td>91 W</td>
<td>55 W</td>
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<td>(E_\text{av})</td>
<td>322 lx</td>
<td>310 lx</td>
<td>321 lx</td>
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<td><strong>Energy consumption/year</strong></td>
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<td>43,534 kWh</td>
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<td><strong>Energy cost savings(^*)</strong></td>
<td>–</td>
<td>- 46,500 €</td>
<td>- 83,701 €</td>
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<td><strong>Savings: CO(_2)^</strong>*</td>
<td>–</td>
<td>- 129 t</td>
<td>- 233 t</td>
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<tr>
<td><strong>Amortisation period</strong></td>
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<td>&lt; 3 years</td>
<td>&lt; 3.5 years</td>
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<td><strong>Energy savings potential</strong></td>
<td>–</td>
<td>up to 33%</td>
<td>up to 60%</td>
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\(^*\) over system service life
Modario® | Saving with Refurbishments and New Systems

Suburban Train Hall, Linz/Austria

Linz AG refurbished their halls with Modario® IP20 LED modules, and now saves around one third of electricity, with more and better light.
Sensors as Intelligent light managers

Not only the luminaire and its construction should be as efficient as possible, decisive is also the correct handling of light. Intelligent light management is the right solution to achieve lighting according to needs, and the most important components for this are Modario® sensor modules. These have a DALI interface (Digital Addressable Lighting Interface) and together with DALI luminaire inserts ensure optimal control of light. The modules function as a DALI broadcast or DALI addressable control system. Modario® sensor modules are suitable for rooms with a high component of daylight as well as in building sections that are not continuously frequented – for example production areas, workshops, car parks, warehouses, ancillary rooms and corridors.

**The level of savings potential depends on:**
- maintenance factor (EN 12464-1)
- usage of the space (movement)
- constructional conditions (ingress of daylight)
**Luminous flux tracking 1)***

Initial situation:
- Continuous use of areas
- No ingress of daylight
- E.g. production halls, assembly halls

The lighting system is over-dimensioned under consideration of the reduction in luminous flux to achieve the maintenance value at the end of the maintenance cycle. The luminaire is dimmed from the beginning though to achieve the precise nominal illuminance. The advancing reduction in luminous flux is continuously compensated for by increasing the power draw. The effect of this luminous flux tracking is that the illuminance remains almost constant and energy consumption is optimised.

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**Presence detection 2)**

Initial situation:
- Non-continuous use of areas
- No ingress of daylight
- E.g. intermittently used storage areas

With sensors, the luminaire detects persons within a specific range. It switches from dimmed orientation lighting up to the required work lighting level. When the detection range is exited, the luminaire dims again after a delay period (T).

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**Presence and daylight 3)**

Initial situation:
- Non-continuous use of areas
- Ingress of daylight
- E.g. storage areas and workshops

Daylight entering the space is used for lighting purposes. To ensure the required illuminance, the required quantity of artificial light is automatically supplemented when necessary, but only when people are in this area.

The level of savings potential depends on:
- the maintenance factor (EN 12464-1)
- usage of the hall (motion)
- constructional conditions (ingress of daylight)

Designations in accordance with EnEV/DIN V 18599-4:
1) Constant luminous flux control
2) Presence sensors
3) Daylight-dependent control
An efficient allrounder: the Modario® IP20 LED module

High efficiency, and just as flexible as the tried-and-trusted T16 luminaire inserts: anything possible in terms of lighting with standard Modario® systems is also possible with the new Modario® IP20 LED module. Two module lengths, various lumen packages, differing light distribution characteristics and DALI integration as standard ensure that trunking can be individually adapted to specific applications. The only difference is that lighting technology is already integrated into the LED module. Independent of desired light characteristic, the module construction on the outside always appears identical.
Extremely narrow distribution module for heights of 7 m...15 m

Asymmetric distribution luminaire module for heights of ≤ 5 m
Individual solutions for the retail sector

Good light improves well-being, entices customers, aids orientation and guides the eye. The Modario® trunking system for shop and retail lighting ensures homogeneous brightness and simultaneously enables the setting of accents. Of high importance in such situations is a balanced lighting level, the conscious use of differing luminance values, glare reduction to avoid disturbing reflections, light and shadow for interesting contrasts, optimal light colour and most importantly colour rendering to present the world of goods as best as possible. These factors come together to achieve foodstuff safety and appetising presentations, as well as convincing light at points of sale.

Applications

At cashpoint areas, glare-reduced reflectors avoid disturbing employees due to direct glare and reflections, and at the same time high illuminance levels stimulate last purchase impulses by customers.

With the lighting of shelves and information signs, light is precisely directed into goods displays while traffic zones and aisles step into the background. The Modario® Shop Reflector ideally fulfils various lighting tasks caused by differing shelf heights.

Discounted goods and special offers at gondola heads are skilfully illuminated with spots, and with approximately 1,000 lux the optimised spotlight inserts emit double or triple the illuminance for aisles.

Point light sources with narrow to medium light distribution angles are highly suited for the accenting of fruit and vegetable zones. The strong red hue of tomatoes and the saturated green of salad are presented most optimally using lighting with very good colour rendering.
Modario® as a sales factor

For shop and retail applications, the Modario® trunking system offers custom solutions for any application, either with LED or standard technology. Various luminaire inserts aid in guiding the eye of customers directly to discounted and campaign goods and also achieve a sense of wellbeing and desire to purchase. At the same time a working environment is established for employees that enables highly efficient, concentrated work.

For the best view of shelves

Modario® Shop Reflector
The Modario® Shop Reflector ideally fulfils the various lighting requirements of applications with differing shelf heights, and meets the standard configurations of most supermarket layouts. With a balanced ratio of vertical and horizontal light distribution, the shop reflector guides the eye towards displays and illuminates goods and vertical advertising surfaces without glare (UGR < 22). With a 12% indirect component, the reflector features slight ceiling illumination that contributes to a pleasant spatial atmosphere.

For the best view of shelves with a plus in efficiency

Modario® IP20 LED module
The Modario® IP20 LED module corresponds to the shop reflector for luminaire inserts with standard technology. The LED module has double vertical light distribution to illuminate goods and shelving in the right light, and a PMMA cover with integrated HDP prismatic technology ensures efficient reduction of glare. Simple mounting with rotary catches means the LED module can be quickly and easily upgraded.
For perfect light accents: the Modario® IP20 LED spotlight

Various lumen packages, various colour filters and reflectors, differing housing colours – Modario® IP20 LED spotlight modules can be individually configured for specific, targeted illumination.

Whether for apparel in boutiques, meat and cheese at the delicatessen counter of a supermarket or new vehicles in a car showroom, the very good colour rendering of the spotlight modules means these are the right solution for an extremely wide spectrum of uses.
Individual solutions for industrial companies

Successful industrial production is based on rapid action and reaction, and this also has consequences with regard to lighting. Luminaires must ensure optimal visual and working conditions and also often comply with the tough demands of rugged industrial conditions: high ambient temperatures, dust, spray water and sparks. High-resistance materials and high protection ratings are imperative. At the same time the flexibility of the lighting system is highly important – when reconstructions take place, processes and work steps are modified or floor-space and assembly stations are redesigned. The solution lies in the modular design of lighting and its simple options for modification: rapidly replaceable modules in two lengths, multiwatt technology, various lumen packages and a wide range of optical accessories.

Applications
Modario® is ideal for use in warehouses and store-rooms with high bay racking and high luminaire mounting heights. Specially developed reflectors with extremely narrow light distribution are available for such applications. Optimal reflectors enable high vertical illuminance values for the efficient lighting of higher racking zones.

A balanced ratio of vertical and horizontal illuminance is needed in production surroundings, in the automotive industry for example.

High illuminance with a high quality of light is able to improve well-being, and biologically effective light has positive effects on both productivity and concentration – very practical for companies with shift work.

Workstations with high demands for visual performance demand high-contrast, glare-free lighting. HDP® prismatic technology fulfils these requirements and ensures highcontrast lighting for visual tasks in precision engineering, surface quality control and on monitors.
Modario® as a production factor

A wide-ranging modular kit and always the right solution: Modario has high protection ratings and highly resistant materials for an exceedingly wide range of industrial applications in the automotive sector, electrical technology, logistics, development and quality control for example. Modario also always ensures a high quality of light and optimal conditions for specific visual tasks even in highly challenging ambient conditions.

An all-rounder for dry conditions: Modario® IP20 LED module

The LED module is a high-efficiency insert for the trunking system with an IP20 standard protection rating (IP40 for the lamp compartment), and is suitable for dry indoor rooms without specific ambient conditions. The module can be integrated into external light management systems due to DALI integration as standard, thus offering additional energy-saving potential. The module is also mounted to the trunking rail in next to no time thanks to the handy rotary catch.

For tough requirements: Modario® IP64

Dust-tight with protection from spray water: Modario® IP64 complies with demands found in challenging surroundings, for example in the building materials industry, in garden centres or multi-storey car parks. Modario® IP64 ensures functional general lighting complying with standards, and can be simply installed and also freely positioned. Desired light distribution is achieved by using reflector accessories. Additionally, the Modario® adaptation of the damp-proof luminaire Monsun® 2 LED provides a powerful LED solution with two optical characteristics and offers several installation solutions for various connection types.
A robust system for challenging surroundings: Modario® IP64 Trunking Luminaire
Dust-tight, splash water protected and available with a flexible cover: The Modario® IP64 trunking luminaire is the sealed, low maintenance luminaire system for tough ambient conditions and is suitable for mounting heights from 2.5...6 metres. The luminaire system has two light distribution patterns (symmetric and asymmetric) and is optimised for T16 Lamp technology. The cover with HDP® prisms ensures homogeneous light and glare reduction, the clear PMMA cover is suitable for areas with sparks and the variant with toughened safety glass cover is especially simple to clean.

For high halls and low costs: T16 Highbay Luminaire
The T16 Highbay Luminaire with IP20 and IP65 protection ratings is a high-efficiency solution for high halls and sales areas. The luminaires are optimised for mounting heights from 6...20 metres, and reflectors emit light according to needs with either wide or narrow distribution. The luminaires feature multiwatt technology (35/49/80 W). Up to 50 % of total costs can be saved compared to obsolete systems with conventional reflector luminaires thanks to energy-saving operation, and of course with higher illuminance, better quality of light and improved visual comfort.

For improved productivity: the Modario® Power Module
The Power Module is the perfect solution for industrial workstations with shift work 24 hours a day, achieving high illuminance values for improved well-being and concentration. The module is equipped with HDP® prisms to ensure balanced and primarily glare-free light distribution even with very high illuminance levels. Differing light colours for indirect (6500K) and direct (4000K) light components trigger a biological light effect that can be positive for the productivity and well-being of employees.

Success as a team: Monsun® 2 LED and Modario®
The Monsun® 2 LED is easily integrated into the Modario® trunking system and proves to be a diverse and highly reliable team player. Modario® trunking rails are equipped with pre-assembled through-wiring with a 2.5mm² cable cross-section. 5 or 10 cores are available according to requirements to enable supplementary functions such as DALI.
Easy mounting – the decisive factor

One of the great strengths of the Modario® trunking system is its simple mounting. All Modario® system components, trunking rails and luminaire inserts are perfectly matched according to 299 mm system dimensions. Triple, double and single-length rails can be combined to comply with the space involved, so that trimming of trunking rails onsite is not necessary. Modules can be positioned in the rails with randomly defined distances according to system dimensions for both trunking and individual luminaire installations, meaning that mounting and installation is highly rapid. This is good for the budget in terms of time, money and nerves. Pre-assembled rail connectors enable the rapid connection of trunking rails, and X, L and T connector elements give more design possibilities when deciding on trunking configurations. Rotatable connectors enable even more flexibility, allowing the rotating and positioning of individual modules in 15° steps.

Download installation sequence at: www.siteco.com/modario-mounting
Through-wiring – up to 10-core plus 2

Diverse and safe: Modario® trunking rails are equipped with pre-assembled through-wiring with a 2.5mm² cable cross-section. Five or ten wires are available according to needs for the integration of light management systems or for supplementary functions such as integrating equivalent supply, brightness control and point light sources. Two further wires are available in addition to the 10 standard wires for applications specifying two separate safety supplies within one rail.

Through-wiring, 5x 2,5mm²

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<th>Connection terminal</th>
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Supplementary wiring 2x 2,5mm²

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† L/L1/L2/L3 = outer conductor
N = neutral conductor
+/- = control line for ECG dimmable (1…10V)
DA = ECG DALI control line
D1/D2 = ECG DSI control line
X = charging phase (separate battery supply)
L+/N- = equivalent supply AC/DC
S = push button input
R = slave – master communication line
SBS = separate battery supply
The Siteco trunking system configurator: Simple planning online

Plan comfortably, work successfully. You can access important information for successful planning with Modario® at www.siteco.com under "Products" ➔ "Planning Tools". The program supplies information concerning availability, configurations and installation – simply, reliably and quickly. For even more convenience, the trunking configurator is directly connected to our electronic product catalogue, offering the following documents and functionality:

- Parts lists, installation lists
- Tender texts
- Data sheets
- Installation instructions
- Product spectrum
- Availability
Step 2: select the configuration

Step 3: enter the basic data

Step 4: select your optical accessories

Step 5: integrate the result in your planning
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<th>Spotlight Module</th>
<th>Basic Module T16</th>
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* Shop reflector, perforated reflector and reflector with self-cleaning effect
** extremely wide distribution possible by tilting the lamp socket
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