VS LIGHTING SOLUTIONS

newsLIGHT

Brilliant Light with VS

VS LIGHTING SOLUTIONS

Dear Customers,
dear Business Partners,

At present, the entire lighting world is talking about "Smart Lighting", a term that describes intelligent lighting systems that constantly tailor lighting to suit the respective requirements while at the same time facilitating convenient and easy operation. This is naturally based on efficient LED technology and intelligent light control systems.

This approach is reflected in our latest developments for indoor use in offices, shops, homes and industrial settings as well as for outdoor use in the form of street and architectural lighting. Highly efficient LED systems, combined with intelligent light control solutions, guarantee the right kind of light for almost any application when and where it's needed. And to round our systems off, highly precise optics made of PC, PMMA or silicone are also available. Thanks to our state-of-the-art development and manufacturing processes we can even provide customer-specific optics of up to 2 metres in length.

While the topic of human-centric lighting is a current area of special focus, we are also putting increasing importance on systems for livestock and greenhouses, for which innovative lighting solutions can equally be provided.

Let us surprise you on a "round trip" of our world of product and system innovations.

Yours

Setsuo Mizusawa, CEO   Klaus Breisch

newsLIGHT CONTENTS

OFFICE

Enabling bright ideas at the workplace

Since optimum lighting in offices improves the wellbeing of employees, sustains health and increases performance, ensuring good office lighting is nothing short of a competitive factor. With our LUGA Line and LED Line SMD products, LED Light Panels SMD and our latest innovation, the Tuneable White Linear module, we can contribute to providing the most favourable lighting in any given situation.

Our LUGA Line series makes us the only manufacturer worldwide to provide linear chip-on-board (COB) LED modules that connect to form a continuous, homogeneous light ribbon without any dark spots. We can now also supply the new LUGA Line RX, a series that features a robust synthetic resin for ease of handling. The highly efficient linear modules of the LED Line SMD series can be tailored to ideally suit the given requirements by adding various optics attachments. Another new product is the LED SMD Kit 3R series, whose modules feature three rows of LEDs with a broad light beam. Our LED Light Panels SMD are ideal for modernising outdated technology to an energy-efficient standard. Our Tuneable White Linear modules are designed for creating specific light temperatures (colours) on demand and with that can be used to trigger specific feelings.

LED Line SMD L14/28/56 W2

The standard for office lighting, ZHAGA-compliant
- Standard and high-brightness with on-board push-in terminals
- Luminous flux from 150 lm to 4600 lm
- Colour temp.: 3000 K, 4000 K, 5000K, 6500 K, CRI ≥ 80
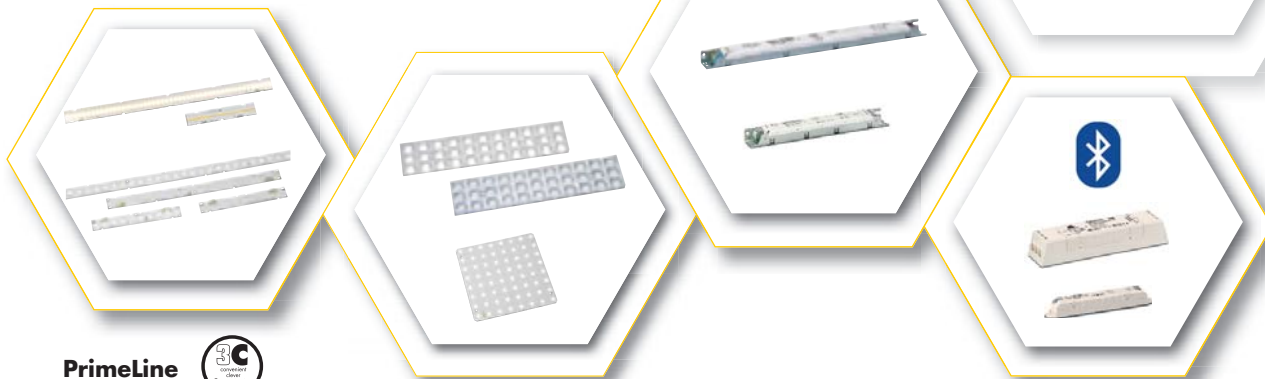- Efficiency: up to 156 lm/W

LUGA Line RX

Linear COB modules for creating homogeneous light ribbons
- Luminous flux from 700 lm to 2200 lm
- Colour temp.: e.g. 2700 K, 3000 K, 4000 K, 6500 K
- Service life: 50,000 h (L90/B10)
- Efficiency: up to 148 lm/W

Tuneable White Linear

With adjustable light temperatures for increasing wellbeing
- Two-channel system
- Colour temperature blends from 2700 K to 6000 K, CRI > 80
- Colour tolerance: 4 SDCM
- Efficiency: > 100 lm/W

LEDLine SMD Kit 1R and 3R

Highly adjustable 1- and 3-row built-in LED modules
- Flexible light distribution thanks to various optics attachments
- Output ratings: standard and high-brightness
- ZHAGA-compliant fixing dimensions
- Luminous flux: up to 3000 lm
- Colour temp.: 3000 K, 4000 K, 5000 K, 6500 K, CRI ≥ 80
- Service life: 50,000 h (L80/B10)
- Efficiency: up to 174 lm/W

LED Light Panels SMD

Efficient and affordable surface lighting
- Two module dimensions: 250 x 250 mm, 270 x 270 mm
- Luminous flux: up to 2600 lm
- Colour temp.: 3000 K, 4000 K, 5000 K, 6500 K CRI ≥ 80
- Service life: 50,000 h (L80/B10)
- Efficiency: up to 174 lm/W

PrimeLine

Programmable intelligent drivers for maximum versatility
- Suitable for Tuneable White Linear
- Output current programmable in 1 mA steps
- Suitable for use with DC* and dimmable via DALI, PUSH
- Current range: 350 – 700 mA at 42 – 84 W*
- Service life: up to 100,000 h

ComfortLine

Convenient drivers with selectable current
- Current range selectable via resistor (LEDset standard), output terminal or dipswitch*
- SELV as well as non-SELV solutions
- Suitable for use with DC*, dimmable via DALI, PUSH, 1–10 V*
- Current range: 60 – 700 mA* at 15 – 140 W*
- Service life: up to 100,000 h

EasyLine

Cost-efficient driver with a focus on core functions
- Current range selectable via the output terminal*
- SELV as well as non-SELV solutions
- Current range: 150 – 700 mA at 6 – 60 W
- Service life: up to 50,000 h

*model-dependent

Dim ONE Bluetooth SMART

Intelligent dimmer system
- Variable light scenarios
  (e.g. Zone, Scene, Timer, Away, Holiday)
- Suitable for halogen and LEDs, control via Bluetooth
- Adjustable minimum light level to counter flickering; phase-cutting trailing-edge dimmer
- Output range: 3 to 450 W

Light Controller XSW-E6

Wireless multi-talent for luminaire integration
- Suitable for standalone, network and mesh network operation
- Integration in IP/DALI networks for up to 6 DALI luminaires or sensors

Light Controller XSW-E64

Wireless multi-talent for network integration
- EnOcean DALI router (broadcast) without the need for additional software
- Suitable for network operation with easy integration into IP/DALI networks

STREET

Excellent visibility ahead

Standard-compliant street lighting, decorative outdoor lighting or atmospheric lighting for public places – our LED modules for street and outdoor lighting give luminaire manufacturers complete freedom of design. In combination with our optics attachments, they provide an ideal basis for luminaires that can reliably present streets, squares or even parks in the best possible light.

In this context, the new encapsulated LED Light IP67 Gen. 2 module is 12% more energy-efficient than its predecessor. And it comes in a robust aluminium casing, painted black to counter premature corrosion in environments with salty air.

Great strides have also been taken in the field of optics, which ensure the light of our LED modules is directed to the right spot. Innovations due to be launched in the 2nd quarter of 2016 are our new M Class M1 and Area silicone optics for COB modules, which come with an IP65 degree of protection and an IK08 degree of mechanical (impact) protection.
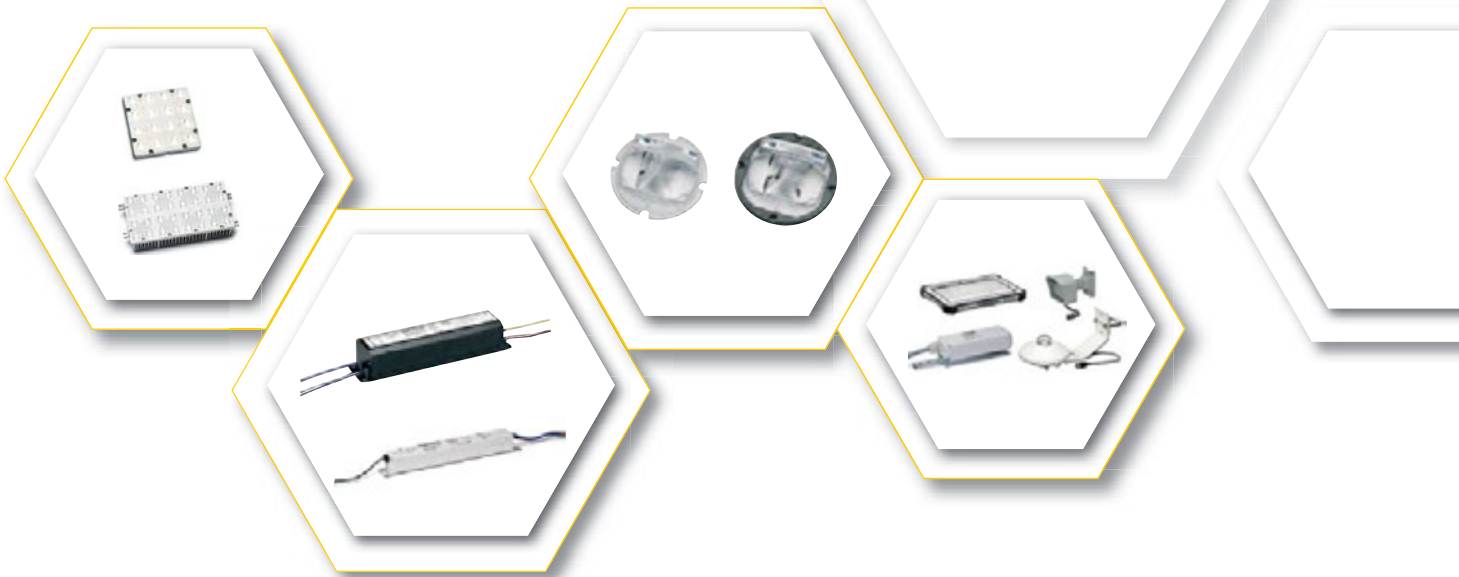
LED Light IP67 Gen. 2

Encapsulated LED module with a high degree of protection
- Built-in module with IP and IK degrees of protection (IP67, IP69, IK08)
- Optics material: silicone
- Luminous flux: 2200 lm to 7900 lm
- Colour temperatures: 3000 K, 4000 K, 5000 K, CRI ≥ 65, ≥ 70, ≥ 80
- Colour tolerance: 5 SDCM
- Service life: > 60.000 h (L80/B10)
- Efficiency: up to 154 lm/W
- Surge protection: 4 kV
- Optimum installation ratio: 4.5:1 (M class optics)

COB Silicone Optics M-Class M1 and Area

Optimum light distribution with integrated protection factor
- Excellent translucency
- Suitable for COB modules with an LES of up to 23 mm
- Degrees of protection: IP65, IK08
- Optical efficiency: up to 95%
- High temperature stability (up to 150 °C)

PrimeLine

Programmable intelligent drivers for maximum versatility
- Programmable functions (e.g. MidNight)*
- Output current programmable in 1 mA steps (DALI) via dipswitch*
- Integrated power reduction*
- Dimmable via 1–10 V
- Very low output ripple and flicker
- Protection classes: IP65, IP20*
- Current range: 350 to 1400 mA* at 75 to 150 W*
- Service life: up to 100,000 h

ComfortLine

Convenient drivers
- Integrated power reduction
- Dimmable via 1–10 V*
- Protection classes: IP67, IP65, IP20*
- Current range: 350 to 1050 mA* at 40 to 150 W*
- Service life: up to 100,000 h

*model-dependent

LiCS Outdoor

Intelligent, modular light management
- Smart Night – configurable controller with two lighting profiles as well as detection of changing day-night cycle in the summer and winter
- Flex Night – controller configurable in groups via the supply line
- Managed Night – integrated control solution with an online communications centre

INDUSTRY

Robust and marvellously efficient

Warehouses and industrial buildings, sports arenas and petrol stations all share a need for lighting solutions that team cost-effectiveness with reliability. Our Industry LED modules satisfy these requirements to the letter. Not only are they ideally suited for coping with given operating conditions, but are also highly efficient and come with a long service life.

This applies exactly to our high-power LED modules. The 4 kV surge protection also grants additional security.

To round the system off, our special industry optics make sure light is directed exactly where it belongs and in any lighting situation.

An addition to our range is the silicone optics for COB SYM II LED modules (available as of the 2nd quarter of 2016). This optics attachment ensures symmetrical light distribution and is thus ideal for production facilities or warehouses. In addition, it comes with high degrees of protection (IP65, IK08).

LED Modules IP20

Highly efficient modular solution
• LED modules with 4, 8, 16, 32 and 64 high-power LEDs
• Luminous flux: 500 lm to 31500 lm
• Colour temperatures: 3000 K, 4000 K, 5000 K
• Colour rendering: CRI ≥ 65, ≥ 70, ≥ 80
• Colour tolerance: 5 SDCM
• Service life: > 60,000 h (L80/B10)
• Efficiency: up to 154 lm/W
• Surge protection: 4 kV

COB Silicone Optics SYM II

Optimum light distribution with integrated protection factor
• Excellent translucency
• Suitable for COB modules with an LES of up to 23 mm
• Protection classes: IP65, IK08
• Optical efficiency: up to 95 %

ComfortLine

Convenient drivers with selectable current
• Current range selectable via dipswitch*
• SELV as well as non-SELV solutions
• Very low output ripple and flicker
• Suitable for use with DC*
• Dimmable via DALI, PUSH and 1–10 V*
• Current range: 350 to 1400 mA* at 20 to 126 W*
• Service life: up to 100,000 h

EasyLine

Cost-efficient driver with a focus on core functions
• Protection class: IP67
• Low output ripple and flicker
• Current range: 700 to 3200 mA* at 50 to 230 W*
• Service life: up to 50.000 h

*model-dependent

Light Controller XSW Smart

All-in-One EnOcean DALI Controller
• EnOcean DALI control
• Suitable for up to 10 DALI luminaires, incl. sensors
• Simple software-based configuration of individual luminaires and groups
• Suitable for connection to EnOcean daylight and motion sensors
• Direct connection to 220–240 V mains voltage

RETAIL

Perfect shopping atmosphere

Presenting products, providing experiences, creating wishes – the importance of light in shops and supermarkets simply cannot be overstated. The popular LUGA Shop series is the optimum system for bathing clothing, foodstuffs, furniture and other products in perfect light. The even more energy-efficient new LUGA Shop Gen 5 series is due to be launched in the summer of 2016. A further innovation is the special ClearWhite colour, which brings out the best even in white clothing.

Our ReadyLine products are equally ideal for interior lighting and are designed for easy installation in spots or downlights. At the same time, they make a perfect replacement for halogen lamps or compact fluorescent lamps. New is the COB ReadyLine suite with a light emitting surface (LES) of 21 millimetres and higher power consumption (30 W or 40 W). And the SMD modules of the DL ReadyLine series will be joined by a version of 250 millimetres in diameter. Furthermore, the new ReadyLine DL 250 will also be available in a emergency lighting version. The module will feature a separate LED circuit with eight LEDs for operation with local emergency lighting drivers.

ReadyLine COB

Innovative LED modules for compact spots for direct connection to 220–240 V mains voltage
- Colour temperatures: 2700 K, 3000 K, 3500 K, 4000 K, 5000 K
- Service life: 50,000 h (L70/B50)
- Efficiency: up to 95 lm/W

Readyline DL 160 / Readyline DL 250 / Readyline DL 250 EM (Emergency Lighting)

Highly efficient built-in LED modules for direct connection to 220–240 V mains voltage
- Colour temperatures: 3000 K, 4000 K, 5000 K, CRI 80
- Service life: 55,000 h (L70/B50)
- Efficiency: up to 110 lm/W

LUGA Shop Gen 5

The latest generation of retail lighting perfection
- Luminous flux: 500 lm to 16,000 lm
- Standard colour temperatures: 2700 K to 4000 K
- Special light temperatures for fashion and food
- Service life: 50,000 h (L90/B10)
- Efficiency: up to 170 lm/W

PrimeLine

Programmable intelligent drivers for maximum versatility
- Output current programmable in 1 mA steps
- Very low output ripple and flicker
- Suitable for use with DC* and dimmable via DALI, PUSH
- Current range: 350 – 700 mA at 24 W – 37 W*
- Service life: up to 100,000 h

ComfortLine

Convenient drivers
- Very low output ripple and flicker
- Suitable for use with DC*, dimmable via DALI, PUSH, 1–10 V*
- Current range: 350 – 1050 mA* at 24 – 60 W*
- Service life: up to 100,000 h

EasyLine

Cost-efficient drivers with a focus on core functions
- Current range selectable via the output terminal*
- SELV
- Current range: 250 – 1050 mA* at 10 – 45 W*
- Service life: up to 50,000 h

*model-dependent

Dim ONE Bluetooth SMART

Intelligent dimmer system
- Variable light scenarios
  (e.g. Zone, Scene, Timer, Away, Holiday)
- Suitable for halogen and LEDs, control via Bluetooth
- Adjustable minimum light level to counter flickering; phase-cutting trailing-edge dimmer
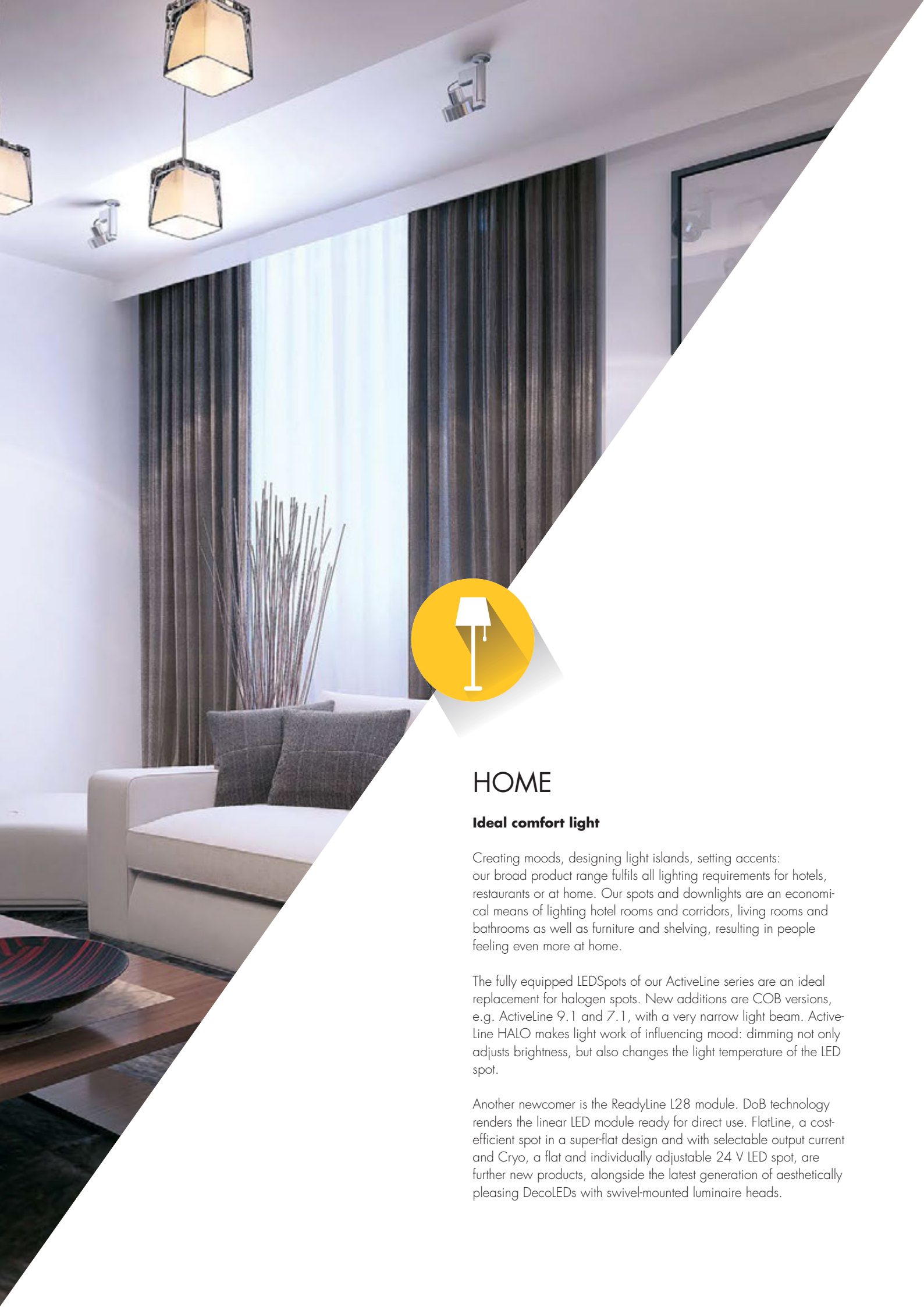- Output range: 3 to 450 W

Light Controller XSW-E6

Wireless multi-talent for luminaire integration
- Suitable for standalone, network and mesh network operation
- Integration in IP/DALI networks for up to 6 DALI luminaires or sensors

Light Controller XSW-E64

Wireless multi-talent for network integration
- EnOcean DALI router (broadcast) without the need for additional software
- Suitable for network operation with easy integration into IP/DALI networks

HOME

Ideal comfort light

Creating moods, designing light islands, setting accents:
our broad product range fulfils all lighting requirements for hotels,
restaurants or at home. Our spots and downlights are an economical means of lighting hotel rooms and corridors, living rooms and
bathrooms as well as furniture and shelving, resulting in people
feeling even more at home.

The fully equipped LEDSpots of our ActiveLine series are an ideal
replacement for halogen spots. New additions are COB versions,
e.g. ActiveLine 9.1 and 7.1, with a very narrow light beam. Active-
Line HALO makes light work of influencing mood: dimming not only
adjusts brightness, but also changes the light temperature of the LED
spot.

Another newcomer is the ReadyLine L28 module. DoB technology
renders the linear LED module ready for direct use. FlatLine, a cost-
efficient spot in a super-flat design and with selectable output current
and Cryo, a flat and individually adjustable 24 V LED spot, are
further new products, alongside the latest generation of aesthetically
pleasing DecoLEDs with swivel-mounted luminaire heads.

ActiveLine 9.1 / 7.1 with extra narrow beam angle

Highly efficient MR16 halogen replacement
• New extra narrow beam angle: 10°
• Architectural and retail lighting

ActiveLine HALO

The MR16 halogen replacement
• Same behaviour of halogen lamps: dim down colour temperature shift from 3000 K to 2000 K
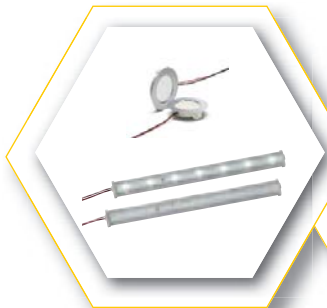• Colour rendering: CRI 90

LED module Cryo

Slim-line LED module with a customisable length
• 24 V system
• Modular system with segments of 200 mm length
• Luminous flux: 250 lm (600 mm), 500 lm (1,200 mm)
• Power consumption: 2.15 W/4.3 W

DecoLED 7W

Elegant LEDSpot
• Fully equipped with optics, heat sink, leads and metal frame for direct connection to 230 V mains voltage
• Swivel-mounted luminaire head
• Beam angle: 38°
• Power consumption: 7 W
• Efficiency: up to 80 lm/W

ComfortLine

Convenient drivers
• Very low output ripple and flicker
• Suitable for use with DC*
• Dimmable with phase-cutting leading- and trailing-edge dimmer*
• Current range: 350 – 1050 mA* at 8 – 40 W*
• Service life: up to 100,000 h

EasyLine

Cost-efficient drivers with a focus on core functions
• Current range: 150 – 1,050 mA* at 5.6 – 60 W*
• Service life: up to 50,000 h

*model-dependent

ReadyLine L28/8.7 W

Built-in LED module for direct connection to 230 V mains voltage
• Aluminium PCB for optimum thermal management
• Integrated push-in connector: 0.2 – 0.75 mm² (24 – 18AWG)
• Module dimensions (L x W): 280 mm x 30 mm
• Luminous flux: 780 lm
• Colour temperature: 3000 K, 4000 K

FlatLine

Cost effective LEDSpot in a flat design
• With a constant current driver (700 mA) or a constant voltage driver (12 V)
• Fully equipped with optics, leads and frame
• Beam angle: 40°
• For cut-out: Ø 56 mm
• Colour temperatures: 3000 K, 4000 K

Dim ONE

The stylish dimmer
• Elegant dimmer with state-of-the-art technology
• Suitable for halogen and LEDs
• Adjustable minimum light level to counter flickering
• Dimming: phase-cutting trailing-edge
• Output range: 3 to 450 W

Dim ONE Bluetooth SMART

The intelligent dimmer system
• Variable light scenarios
  (e.g. Zone, Scene, Timer, Away, Holiday)
• Suitable for halogen and LEDs, control via Bluetooth
• Adjustable minimum light level to counter flickering; phase-cutting trailing-edge dimmer
• Output range: 3 to 450 W

HUMAN-CENTRIC

New life-sustaining light

Higher-performing employees, more concentrated school pupils or people who recover more quickly from illness: human-centric lighting gives light a whole new meaning. This is because light has the greatest effect on our so-called circadian rhythms, as a result of which the right kind of lighting also influences our wellbeing and how we behave. Probably the most common example is the effect that different light temperatures (colours) exert on the sleep-waking rhythm, which is regulated by the hormone melatonin. If the photo-sensitive cells in our eyes perceive blue light, melatonin production is suppressed, making us feel alert and active. Conversely, a relative lack of blue light, as found in nature during dusk, will promote the production of melatonin and make us feel tired.

Vossloh-Schwabe conducts research into and develops technologies that positively influence human physiology. And human-centric lighting has long since gone beyond simple colour-change or dimming functions. Modern digital lighting technology revolves around physical parameters such as wavelengths and pulse widths with the aim of creating light scenarios that positively influence workplaces, educational establishments or health-care institutions.

Our human-centric lighting product with 20 highly efficient COB LED chips permits infinite adjustment of light temperatures as well as targeted modification of biologically effective spectrums. In workspaces, this means light can be adjusted to suit the biorhythms of the employees. Nearly the same effect can be achieved in the fields of education and medicine.

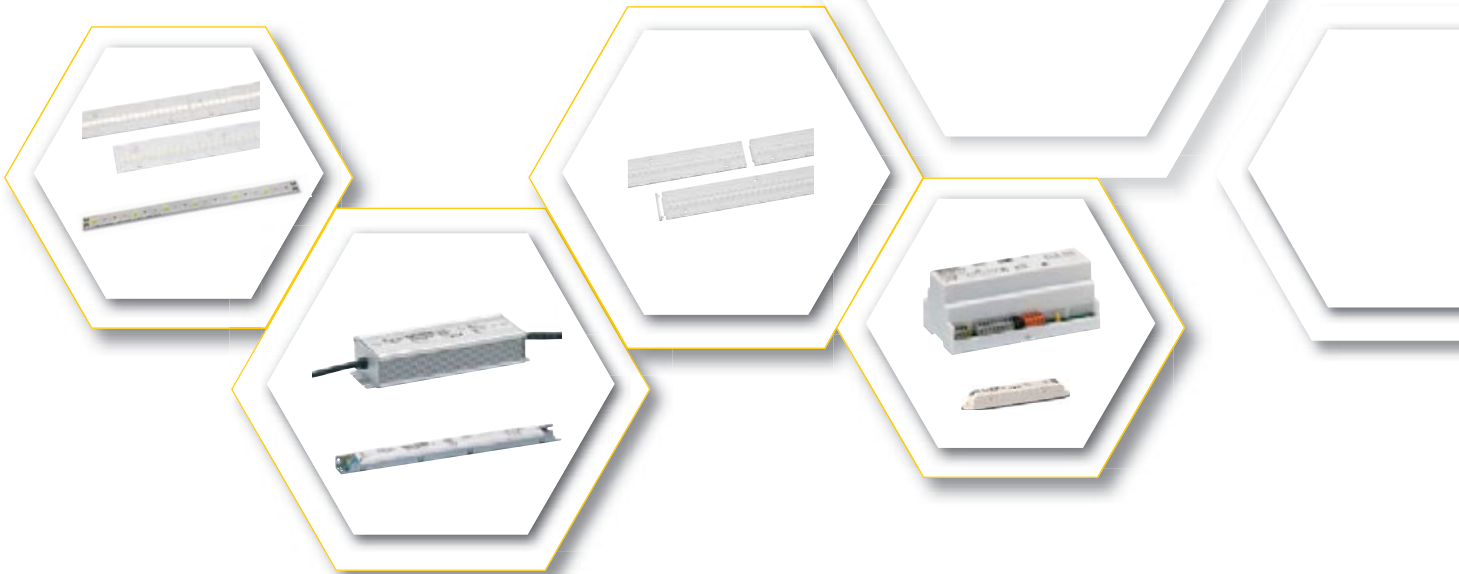The built-in human-centric LED module can thus contribute to improving health and cognitive performance.

Typical Fields of Application:
• Residential care and nursing homes
• Private homes, hotels
• Kindergartens, schools, universities
• Offices and industrial workspaces

Built-in LED Module for Human-centric Lighting

Optimised and efficient COB technology
• 20 highly efficient LED chips
• 4 light channels
• Ceramic PCB
• On-board push-in terminal
• Customer-specific solutions

A Perfect Match: Our PrimeLine Driver

Programmable intelligence for maximum versatility
• 4-channel output– each independently dimmable, DALI
• Suitable for DC operation
• Output: max. 188 W
• Output current: selectable between 350 and 700 mA via resistor
• Very narrow output current tolerance
• Practically free of inrush current
• Very low output ripple and flickering
• Degree of protection: IP65
• Service life: up to 100,000 h

Light Controller IP

Network-capable DALI light control (2 DALI lines), ideal for new projects and retrofits
• Energy savings thanks to daylight- and occupancy-based control
• Touch4Light via tablet (browser-based)
• EnOcean wireless operation

Light Controller XSW-E6

Wireless multi-talent for luminaire integration
• Suitable for standalone, network and mesh network operation
• Integration in IP/DALI networks for up to 6 DALI luminaires or sensors

GREENHOUSES & LIVESTOCK

Optimised yield and wellbeing

Modern LED technology is not only a more energy-efficient means of lighting greenhouses and farm buildings, but also hands farmers a tool with which targeted influence can be exerted on the growth and health of crops and livestock. This is another field of application into and for which Vossloh-Schwabe conducts research and develops new products.

But nowadays, such technology does much more than merely stimulate chlorophyll-based photosynthesis and thus growth by providing sufficient light. Apart from chlorophyll, plants also feature other classes of photoreceptors that, for instance, affect the germination of seeds. LED technology makes it possible to address these photoreceptors in a targeted manner by making use of certain sections of the light spectrum – an option that delivers real added value.

When it comes to rearing livestock, the amount and type of light are also decisive factors for animal wellbeing and health. Studies have shown that light programmes make a positive difference to milk yield, physical growth and reproduction. LED lighting can be adjusted to suit specific livestock needs, while also ensuring uniform lighting for stables, barns or byres.

LED System Solution for Greenhouses and Livestock

Highly efficient LED system in an elegant aluminium profile with a driver-installation-box
- Optimised COB technology for plants and livestock
- 4 light channels, individually addressable via DALI
- Optimised light spectrum
- Protection class I
- Degree of protection: IP65

Built-in LED module for Greenhouses and Livestock

Optimised and efficient COB technology
- 20 highly efficient LED chips
- 4 light channels
- Ceramic PCB
- On-board push-in terminal
- Customer-specific solutions

A Perfect Match: Our PrimeLine Driver

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Light Controller IP

Network-capable DALI light control (2 DALI lines), ideal for new projects and retrofits
- Energy savings thanks to daylight- and occupancy-based control
- Touch4Light via tablet (browser-based)
- EnOcean wireless operation

Light Controller XSW-E64

Wireless multi-talent for network integration
- EnOcean DALI router (broadcast) without the need for additional software
- Suitable for network operation with easy integration into IP/DALI networks

SMART LIGHTING

Intelligent light – At any time

An office floor lamp that gets brighter as soon as someone comes near or an exhibition space in a museum in which, upon being entered, a video starts and a matching light ambience is created as if by magic – smart lighting delivers the right kind of light when it's needed. The result is a level of convenience that facilitates creativity and is efficient at the same time. Our smart products make lighting more intelligent and also open up new potential.

For instance Dim ONE. In its SMART version, the stylish dimmer comes with numerous light scenarios and is super easy to operate using a tablet or smartphone via Bluetooth. And luminaire manufacturers can integrate or retrofit this lighting smartness with our latest wireless controllers of the XSW series.

Outdoor lighting is also getting an intelligence boost – with customers receiving a solution that suits the requirements of the respective task at hand. From intelligent island solutions to networked light management, various product suites are available, all of which can be freely combined.

Dim ONE

Dimmer with style
- Elegant dimmer, suitable for halogen and LED
- Adjustable minimum light level to counter flickering; phase-cutting trailing-edge dimmer
- Output range: 3 to 450 W

Dim ONE Bluetooth SMART

Intelligent dimmer system
- Variable light scenarios (e.g. Zone, Scene, Timer, Away, Holiday)
- Suitable for halogen and LED, control via Bluetooth
- Adjustable minimum light level to counter flickering; phase-cutting trailing-edge dimmer
- Output range: 3 to 450 W

Light Controller XSW-E6

Wireless multi-talent for luminaire integration
- Suitable for standalone, network and mesh network operation
- Integration in IP/DALI networks for up to 6 DALI luminaires or sensors

Light Controller XSW-E64

Wireless multi-talent for network integration
- EnOcean DALI router (broadcast) without the need for additional software
- Suitable for network operation with easy integration into IP/DALI networks

XSW Router

EnOcean DALI control made easy
- EnOcean DALI router (broadcast)
- Integrated DALI current supply (20 mA)
- No additional software needed

Light Controller XSW Smart

All-in-One EnOcean DALI Controller
- EnOcean DALI control
- Suitable for up to 10 DALI luminaires, incl. sensors
- Simple software-based configuration of individual luminaires and groups
- Suitable for connection to EnOcean daylight and motion sensors

All devices suitable for direct connection to
220–240 V mains voltage

VS MediaServer

Synchronising a cohesive light ambience with music or videos is as easy as child's play with our new MediaServer.

Flexible DALI/DMX control for an ambience of harmonised light, audio and video
- Light, audio and video synchronisation for shops, museums or façades
- Super-easy browser-based configuration
- Simple creation of light scenarios with audio-visual integration
- Open and flexible interfaces (DMX, DALI, IP network, EnOcean, audio)
- Combinable with Panasonic Space Player

LiCS Outdoor

Intelligent, modular light management
- Smart Night – configurable controller with two lighting profiles as well as detection of changing day-night cycle in the summer and winter
- Flex Night – controller configurable in groups via the supply line
- Managed Night – integrated control solution with an online communications centre

Perfectly matched:
our LED drivers with a DALI interface

- PrimeLine – programmable, for maximum flexibility
- ComfortLine – convenient driver with selectable current

Whenever an electric light goes on around the world, Vossloh-Schwabe is likely to have made a key contribution to ensuring that everything works at the flick of a switch.

Headquartered in Germany, Vossloh-Schwabe has been a member of the global Panasonic group since 2002 and counts as a technology leader within the lighting sector. Top-quality, high-performance products form the basis of the company's success.

Vossloh-Schwabe's extensive product portfolio covers all lighting components: LED systems with matching control gear units, highly efficient optical systems, state-of-the-art control systems (LiCS) as well as electronic and magnetic ballasts and lampholders.

The company's future is Smart Lighting.

Vossloh-Schwabe Deutschland GmbH

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VS LIGHTING SOLUTIONS