

ONLITE

Product range

Emergency lighting
and emergency lighting
systems



[linked](#)

All order numbers in the PDF are linked
to the Zumtobel online catalogue.





Perfectly illuminated escape routes ensure that people can leave a building safely in an emergency. Illuminated escape signs, and emergency luminaires that are independent of general mains power supply, are therefore required in the majority of buildings such as offices, movie theatres, underground car parks and shopping centres. Relevant technical specifications are laid down in national and international standards and regulations.



ONLITE product range

4 ONLITE overview

29 ONLITE emergency lighting

31 ONLITE emergency luminaires

57 ONLITE escape sign luminaires

97 General lighting luminaires as emergency luminaires

103 ONLITE emergency lighting systems

109 ONLITE local

127 ONLITE central eBox and CPS

193 ONLITE components and technology

194 LEDs

196 Batteries

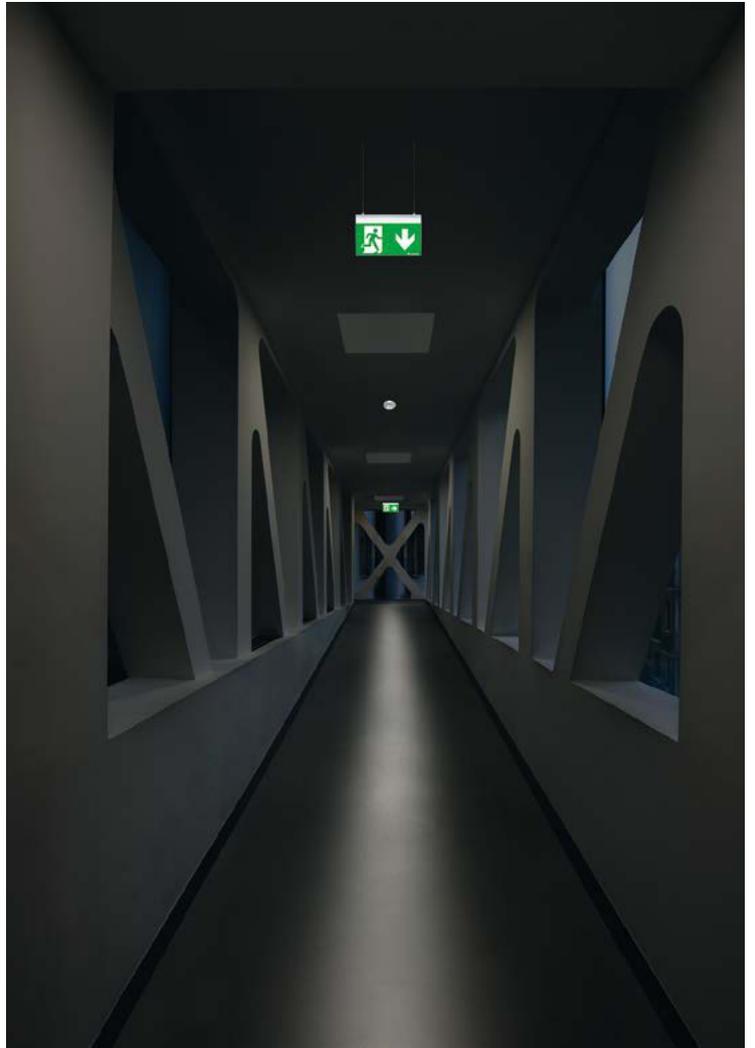
200 Control gear

212 ONLITE product overview

ONLITE works when everything else is down!

Functional emergency lighting is more than just a must required by law. The quality of the luminaires and of the supply system reflects the operator's responsibility towards the building, the people using it and towards the environment. Here, quality stands the test, not only in an emergency. The ONLITE emergency and escape sign luminaires cannot fail to impress in everyday life – on account of their unobtrusive design and their capability of integration into the interior. For emergency lighting, too, Zumtobel attaches great importance to technical quality criteria such as maximum energy efficiency and convenient maintenance. Based on many years of experience with LED, the ONLITE product range incorporates state-of-the-art, extremely durable LED technology. The built-in Maintenance function ensures constant luminous flux for more than 50 000 hours. All luminaires have been tested under ENEC and conform with the EN 1838 standard. Two concepts are available for reliable power supply in an emergency: the ONLITE local self-contained system, and central supply systems using ONLITE central eBox and CPS.





ONLITE product ranges

Emergency lighting and emergency lighting systems

Emergency lighting



ONLITE emergency luminaires

Using a power LED and four sophisticated optics, RESCLITE paves the way to a new era of emergency lighting. Thanks to maximum efficiency and perfect light distribution, a few powerful LED luminaires are enough to provide emergency lighting in conformity with relevant standards. RESCLITE requires little design effort and is absolutely independent from general lighting.

ONLITE escape sign luminaires

In close collaboration with designers, luminaires have been created that provide safety and visually blend into the interior design. The efficient LED technology incorporated in ONLITE escape sign luminaires ensures low energy consumption and little maintenance effort. Numerous installation and supply options are provided for each model. The extensive Zumtobel product portfolio ranges from a little design sensation through to luminaires with an increased recognition range or higher protection rating.

General lighting luminaires as emergency luminaires

Zumtobel luminaires for general lighting are fitted with an emergency lighting module at the factory, making them reliable emergency luminaires. In emergency mode, these luminaires are usually run at a reduced output level, which is set using ONLITE emergency lighting systems.



Emergency lighting systems



ONLITE local

Centrally monitored systems supplied by a self-contained battery perform all checking tasks and thus provide maximum functional safety at minimum costs. Another benefit of the SB 128 controller: forgetting inspection dates is a thing of the past. The controller automatically runs test that mainly serve safety purposes and are required under applicable standards, and immediately reports any faults.

Page 109



ONLITE central eBox

The ONLITE central eBox is a central battery system optimised for use with efficient LED technology. Energy consumption as well as the number of batteries required have been reduced to a minimum. Due to its modular design, the number of possible output circuits is increased, providing the system with maximum flexibility in order to adjust supply perfectly to each building's requirement.

Page 127



ONLITE central CPS

This central battery installation, which is a modular system, adjusts to any specific project and exactly meets the customer's requirements. The system communicates via DALI, which means that each DALI luminaire can be used as an individually monitored emergency luminaire and can be controlled individually. Other assets of ONLITE central CPS: minimum maintenance effort, fail-safe data communication and no need for additional communication modules in the luminaires.

Page 162



ONLITE application areas



Electric utilities Frastanz | AT

Client: Electric utilities, Frastanz; EWF Elektrotechnik und Warenhandel Frastanz GmbH | AT

Architect: DI Walter Müller, Frastanz | AT

Electrical consultants and installations: Martin Welte – Electric utilities Frastanz | AT

Lighting solution: ONLITE central CPS emergency lighting system, PURESIGN escape sign luminaires, LUXMATE LITENET lighting management system, Zumtobel luminaires



Martin Welte

Head of electrical installations
Electric utilities Frastanz

“Zumtobel provides easy-to-use tools for planning an emergency lighting system; in case of questions, help and advice is provided by perfectly trained technical sales staff. Perfection in technology is also what Zumtobel relies on when it comes to its luminaires. Escape signs, for instance, are fully illuminated, ensuring that the recognition range is maintained at all times.”

All the references indicated in this brochure and many others can be found online on the Map of Light: at zumtobel.com under “Lighting solutions”. By entering the product name, you can search directly for projects using ONLITE products.

zumtobel.com/mapoflight





Offices and communication

A pleasant environment creates a good impression for both customers and staff members. Made of precious aluminium, the PURESIGN 150 and COMSIGN 150 escape sign luminaires blend into modern office interiors particularly unobtrusively due to their discreet design. There is an economic aspect as well: high quality materials are not only visually attractive but also durable. A recognition range of 30 metres makes both luminaires ideal escape route luminaires for corridors with standard dimensions. For wide-area emergency lighting of office areas, we recommend RESCLITE antipanic – for areas up to 170 m², one luminaire is sufficient.

The SB 128 controller centrally monitors small, locally supplied buildings. Medium-sized to large buildings are centrally supplied and automatically checked via the eBox. Both systems can be configured and commissioned easily and quickly.

LCT ONE – Life Cycle Tower, Dornbirn | AT

Client: Cree GmbH, Dornbirn | AT
 Architects: Hermann Kaufmann ZT GmbH, Schwarzach | AT
 Electrical consultants: Ing. Büro Brugger, Thüringen | AT
 Lighting solution: ONLITE central eBox emergency lighting system, ONLITE COMSIGN, PURESIGN and ARTSIGN escape sign luminaires, ONLITE RESCLITE emergency luminaires, LUXMATE LITENET lighting management system, EnOcean and CIRCLE control points, Zumtobel luminaires

Recommended products



COMSIGN
150



PURESIGN
150



RESCLITE
antipanic



ONLITE
local



ONLITE
central eBox



ONLITE application areas



Reykjavik University | IS

Architects: Henning Larsen Architects, Copenhagen | DK
ARKIS Architects, Reykjavik | IS
Lighting design: VERKIS, Reykjavik | IS
Electrical installations: Rafmiolum hf, Reykjavik | IS
Lighting solution: ONLITE central CPS emergency lighting system, LUXMATE LITENET lighting management system, Zumtobel luminaires

Education and science

In many schools, universities and libraries, space requirements are very high. Spacious buildings or rows of buildings form medium-sized to large complexes with lots of rooms and circulation areas. As a cost-effective yet high-grade group and central battery system, the eBox ensures a high level of safety. Faulty luminaires, for instance, are quickly identified due to central monitoring.

Escape routes and doors have to be marked and need proper lighting. Since the ONLITE range with ERI spot has been introduced, a single luminaire fulfils both functions. The rotating LED spots flexibly adjust to a variety of spatial requirements. RESCLITE wall has become established as a glare-free solution for staircases. Luminaires in sports facilities are protected by a ball-proof wire guard.

Recommended products





UŠĆE Shopping Centre Belgrade | SRB

Architects: Chapman Taylor Architetti S.r.l., Milan | IT
 Lighting design: Voltaire Light Design, Milan | IT
 Electrical installations: BDSP YU d.o.o., Belgrade | SRB
 Lighting solution: ONLITE RESCLITE emergency luminaires, LUXMATE PROFESSIONAL lighting management system, Zumtobel luminaires

Presentation and retail

Emergency lighting in areas used by the public have to comply with a large number of regulations and standards. Moreover, many shop owners are committed to sustainable operation. As regards the use of environment-friendly raw materials, ONLITE is a pioneer – thanks to modular design, environmentally compatible production processes and energy-saving logistics. In use, ONLITE luminaires boast low energy consumption, durable and low-maintenance LED technology, as well as an electronic system optimised for emergency lighting.

For purposes of flexibility, many retail areas are fitted with a TECTON continuous-row system. ONLITE luminaires fitted with an adapter can be integrated into any system quickly and flexibly. In addition to the PURESIGN 150, CROSSIGN 110 and 160 escape sign luminaires, the RESCLITE range is available with all optics and supply options for installation on TECTON. ONLITE local provides a self-contained solution for each shop, and is a cost-effective way of configuring and monitoring separate battery luminaires.

Recommended products



ARTSIGN



COMSIGN
150



PURESIGN
150



RESCLITE
escape



ONLITE
local



ONLITE application areas



Hotel and wellness

Unobtrusive in everyday life, safe in an emergency – superior design and high-grade materials ensure a one hundred percent perfect solution. Just one of many examples: the COMSIGN 150 escape sign luminaire with transparent acrylic glass and cord suspension seems to float in the air.

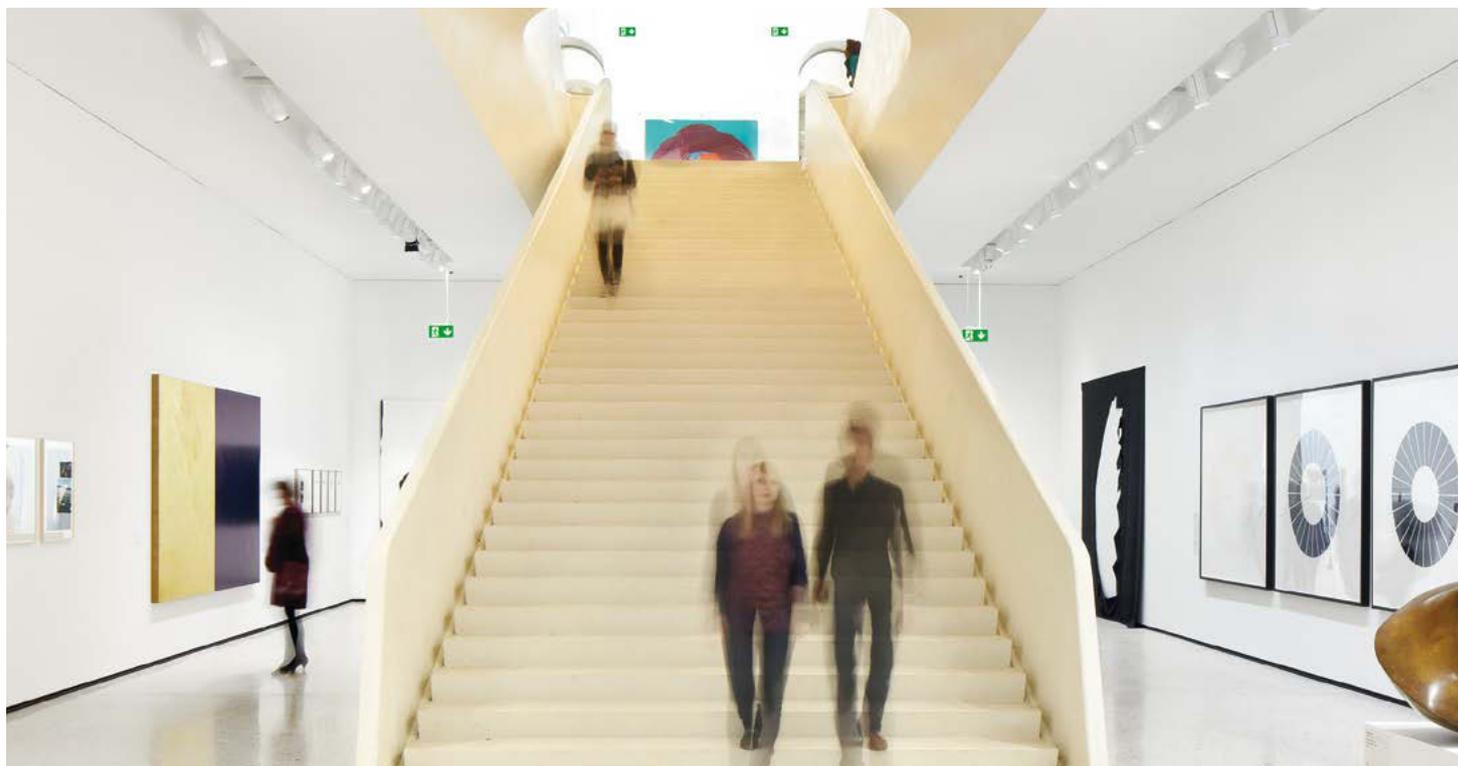
Another criterion is the number of luminaires required: the new ONLITE luminaires with ERI spot are both emergency and escape sign luminaires at the same time. PURESIGN 150, CROSSIGN 110 and 160 illuminate rooms up to 16 metres high, providing an alternative to a separate emergency luminaire in this area. From the bottom of the escape sign luminaires, the two energy-efficient ERI spots, each with only 0.5 W power consumption, illuminate the depth of the room. By simple rotation of the patented lenses, their lighting cones can be adjusted to any given room situation.

Hotel Belvoir, Rüslikon | CH

Client: Heinz P. Meier, Hotel Belvoir, Rüslikon | CH
Interior design: architektur & designbüro, Zurich | CH
Electrical design: enerpeak salzmann ag, Dübendorf | CH
Lighting design: Lichtkompetenz, Zurich | CH
Lighting solution: ONLITE central CPS emergency lighting system, ONLITE COMSIGN escape sign luminaires, ONLITE RESCLITE emergency luminaires, ZBOX lighting control system, LUXMATE PROFESSIONAL lighting management system, Zumtobel luminaires

Recommended products





Städel Museum, Frankfurt am Main | DE

Architects: schneider+schumacher, Frankfurt am Main | DE
 Lighting design: Licht Kunst Licht AG, Bonn/Berlin | DE
 Electrical installations: Delta-Tech, Weiterstadt | DE
 Electrical installations: Imtech, Rüsselsheim | DE
 Lighting solution for new building: ONLITE PURESIGN
 escape sign luminaires, LUXMATE PROFESSIONAL
 lighting management system, Zumtobel luminaires

Art and culture

Stylish solutions in emergency lighting are created by an innovative interplay of lighting technology and design. For many years, internationally renowned designers such as EOOS have worked on the ONLITE product range. In collaboration with Zumtobel, they created PURESIGN 150, which has won an iF design award. The frame, which is only 200 mm wide, appears very delicate. The models of the RESCLITE range of recessed luminaires are true champions as regards unobtrusive integration into architecture. Only a small number of these tiny luminaires, with a diameter of just 85 mm, are required.

In buildings for art and culture, lighting scenes are a major issue. Lighting systems offering customised brightness levels and variable colour temperatures are therefore very popular. The ONLITE central eBox and CPS central battery systems can be perfectly integrated in LUXMATE LITENET, the lighting control system that is ideal for this purpose.

Recommended products



COMSIGN
150



PURESIGN
150



RESCLITE
antipanic



ONLITE
central eBox



ONLITE
central CPS



ONLITE application areas



Health and care

People growing older need more light. This makes higher demands on escape sign luminaires as well. In order to make sure that they are visible and provide guidance in an emergency, Zumtobel relies on standards that clearly exceed those currently applicable: luminance according to DIN 4844 is 200 cd/m² on average and 500 cd/m² in the white range – and is therefore a hundred times higher than stipulated under EN 1838. The Maintenance function provides constant luminous flux, ensuring proper safety. For the large variety of zones and areas, Zumtobel offers a wide range of products: design-oriented luminaires for foyers and entrance areas; surface-mounted escape sign luminaires for installation above doors, as required in sanitary areas, through to wide-area luminaires perfectly illuminating long corridors and rooms for elderly people.

For large buildings, ONLITE central battery systems and the LUXMATE LITENET lighting control system are the products of choice. Thanks to a central monitoring unit and a central battery, maintenance efforts are reduced to a minimum.

Gmunden Hospital / AT

Client: Gespag OÖ Gesundheits- u. Spital AG, Linz | AT
Architects: fasch&fuchs.ZT-gmbh, Vienna | AT
Electrical consultants: TB Wanger & Partner ZT GmbH, Linz | AT
Electrical installations: ELIN GmbH & Co.KG, Linz | AT
Lighting solution: ONLITE COMSIGN escape sign luminaires, LUXMATE LITENET lighting management system, Zumtobel luminaires

Recommended products





Rema Holzindustrie, Eben im Pongau | AT

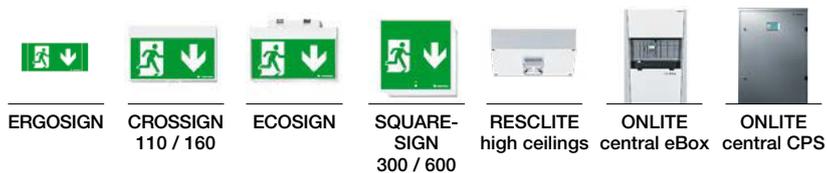
Lighting design and electrical installations: Kontriner Elektrotechnik, Bischofshofen | AT
 Lighting solution: ONLITE local SB 128 controller emergency lighting control system, ONLITE ECOSIGN escape sign luminaire, Zumtobel luminaires

Industry and engineering

Harsh environmental conditions are frequently encountered in industry. Zumtobel offers emergency and escape sign luminaires with IP54 and IP65 protection to make sure that the way to safety is reliably lit in the event of emergencies. The products are perfectly protected against dust and water, are durable on account of the high-grade LED technology incorporated, and are resistant to vibrations. For spacious factory floors, where escape signs must be visible from a long distance, escape sign luminaires with a recognition range of 120 metres according to the EN 1838 Standard are available. Bays up to 20 metres high are illuminated using the new RESCLITE high ceiling luminaires.

Central systems are recommended for monitoring and supply. They keep batteries protected against the high temperatures in industrial bays and reduce luminaire maintenance effort to a minimum.

Recommended products



Responsible use of resources

Zumtobel and sustainability

Life cycle of Zumtobel products

The Zumtobel life cycle assessment is based on the international ISO 14 040/44 standard. By means of this generally accepted, reliable tool, the environmental impact of a product is measured and assessed over its entire life cycle – from production of raw materials to recycling. The underlying principle is to analyse environmental impact already during development, and to keep it as low as possible over the product's service life.

European Core EPD



Institute Construction
and Environment e.V.

Environmental Product Declaration (EPD)

EPD is an environmental declaration using LCA and life cycle inventory analysis to assess the use of resources and environmental impact of a product over its entire life cycle. Already when a new product is developed, Zumtobel takes the data on raw materials, production, transport, use and recycling into account. 90 % of energy and resources are consumed when a luminaire is actually used: here, Zumtobel scores high with energy-efficient LED technology and intelligent lighting control.

zumtobel.com/sustainability

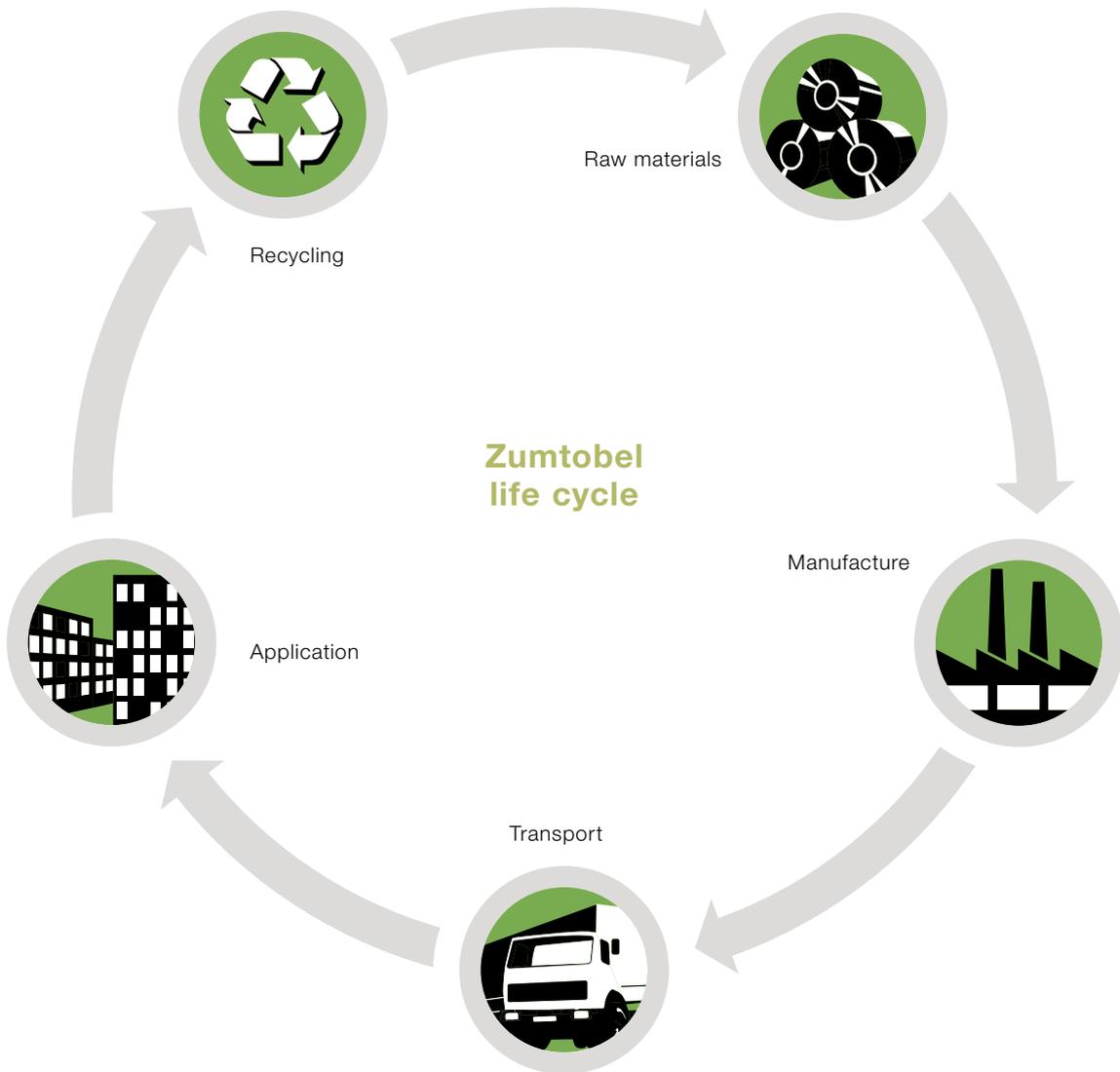
Raw materials

Step one: by using a manageable number of different raw materials, the recycling of luminaires is made much easier. In general, all Zumtobel products are fitted with halogen-free wiring. This increases environmental compatibility and makes sure that no toxic fumes and pollutants are emitted in case of fire. Contrary to fluorescent lamps, advanced LEDs do not contain any toxic materials like mercury. In its batteries, too, Zumtobel uses only non-toxic NiMH batteries although the use of NiCd batteries is still permitted for emergency lighting systems within the EU.

Production

Zumtobel has committed itself to making environment-friendly products based on environment-friendly processes. In this context, sustainability is more important than mere cost reduction. Already during the development of new products, various production processes and their environmental impact are analysed on the basis of a life cycle assessment: Life cycle inventory analysis (LCI) and life cycle impact assessment (LCIA) according to the EPD are comprehensive analyses based upon which the surface finish of the new ONLITE products' aluminium housing was chosen, for instance.





Transport

All ONLITE products are manufactured 100% at Zumtobel in Dornbirn, Austria. This ensures high quality and reduces transport routes to the main market in Europe. Transport is optimised further by using the double-stack method for using loading space in trucks to optimum effect. Sustainability and the strive to optimise transport logistics on an ongoing basis are important criteria when choosing our carriers.

Application

Some 90% of the environmental impact of Zumtobel luminaires are caused during the phase of use. In this decisive stage of the life cycle, ONLITE scores high on account of its energy-efficient, durable LED technology, intelligent control gear, low energy consumption at the beginning of its service life, and sophisticated control systems which allow to adjust the lighting level for each luminaire individually.

Recycling

Products by Zumtobel feature a modular design, which means that individual modules can easily be replaced. One example is the no-tool replacement of batteries in the luminaires. Instead of replacing the luminaire as a whole, the respective spare part is simply ordered at Zumtobel – batteries, control gear or LEDs.

Assuring quality

Certified products guaranteed

Zumtobel's emergency and escape sign luminaires are manufactured in Dornbirn. Before the luminaires "made in Austria" leave the factory, each one is individually tested and given a seal of approval. The Zumtobel test laboratories are also located in Dornbirn. During the development process, luminaires are tested rigorously to ensure compliance with applicable specifications. Besides IP protection class tests in its water and dust laboratory and in cold and heat test chambers, Zumtobel also makes comprehensive EMC and light measurements.



Internationally certified

The superior quality of the ONLITE products is demonstrated by various certificates. Zumtobel collaborates with the competent authorities and certification agencies to have the requisite, comprehensive analyses carried out. All Zumtobel luminaires are ENEC-certified. This mark confirms compliance with European safety standards. Contrary to the CE mark, the ENEC mark is issued by an independent accredited inspection authority, and is therefore highly significant evidence of the products' quality.



Safety

Energy efficiency

Rugged

The best
lighting
technology





Guarantee and Spare parts

The voluntarily extended five-year guarantee comprises Zumtobel's entire product range including light emitting diodes and control gear. Only consumable parts such as conventional light sources or emergency lighting batteries are exempt from the guarantee extension.

At the same time, the modular products are extremely easy to maintain as well. This shows, among other things, in the batteries, which can generally be replaced without the use of any tools in Zumtobel luminaires. For the ONLITE product range, batteries, control gear and LEDs are available as spare parts.

zumtobel.com/spare_parts
zumtobel.com/guarantee



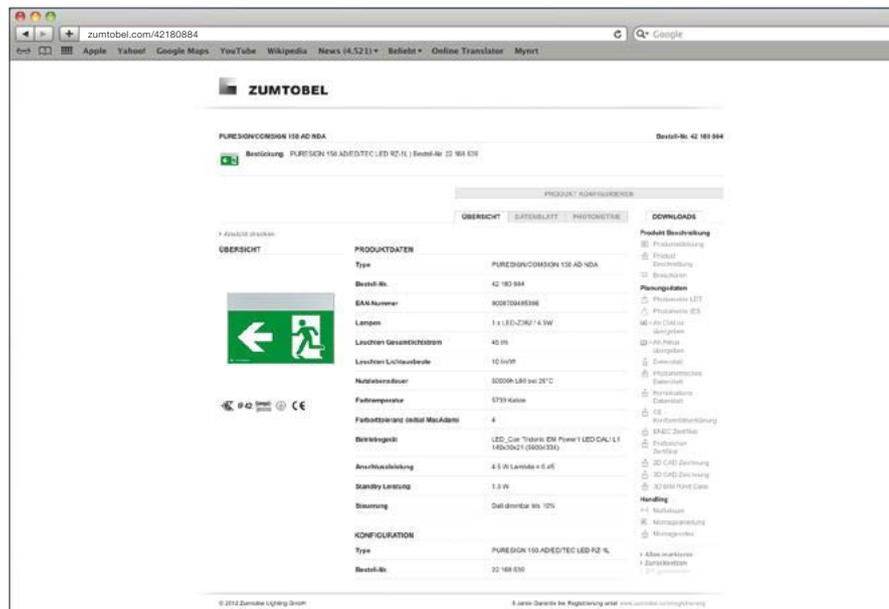
Well informed at all levels

Current details on luminaires and standards

Web site and product database

The Zumtobel website includes all relevant information, from product descriptions, technical data, dimensional sketches, installation instructions and light distribution curves to certificates awarded. For each product, this wealth of information is also offered as a concise PDF data sheet for printout or for e-mail dispatch. The quickest way to find a product is always to enter the article number required.

zumtobel.com/42180884

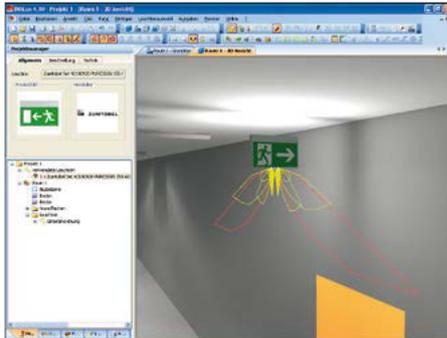


Standards brochures

Country-specific regulations at a glance

Emergency lighting regulations are usually based on national laws. The country-specific standards brochures by Zumtobel provide readers with an overview of the current legal situation and help with the design of emergency lighting installations.

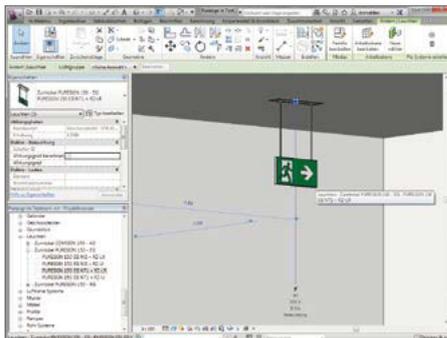




DIALux

Planning lighting installations

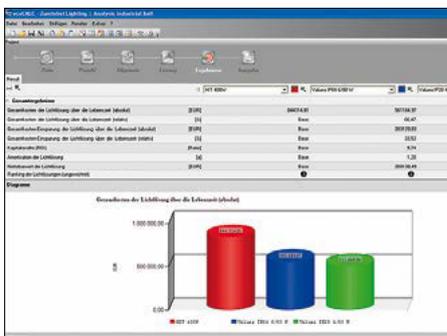
DIALux is a globally used programme for planning lighting installations. DIALux data made available on the Zumtobel website can easily be imported by a click of the mouse, or placed on the building plot by means of drag&drop. The visualisation of building situations, light distribution patterns and calculation results make it easy to plan an emergency lighting system using Zumtobel emergency and escape sign luminaires.



Revit

Planning and managing buildings

High-grade, energy-efficient buildings are planned and managed using this powerful software. In the process, designs are modified or re-designed by simply clicking or using the drag&drop function. For a number of luminaires, 3D files for Autodesk Revit are available for downloading from the Zumtobel website, including extensive product information such as dimensions and energy consumption. As soon as the luminaires are positioned, the beam patterns are displayed and the installed load is calculated as well.



ecoCALC

Comparing the efficiency of lighting solutions

The ecoCALC calculation programme provides concrete figures and facts on efficiency. All costs incurred over the service life of a lighting solution are calculated. The programme calculates the investment costs, and takes other financial aspects of resource-saving lighting into account, such as CO₂ emissions, energy consumption, maintenance costs and disposal.

zumtobel.com/ecocalc

The easy way to professional design

Support and tools



In the ONLITE areas, Zumtobel makes numerous tools available that facilitate design tasks for the user. In the case of large installations, the design of emergency lighting systems can be a very demanding task. The requirements a system has to meet are strictly specified under international and national standards and by the authorities in charge. In order to always keep track of the raft of requirements that have to be met, Zumtobel provides advice and support by means of topologies, blueprints, specifications, system limits, etc. For support, please contact your nearest consulting centre.



Demo software

To get a first impression

Programmes specifically developed for that purpose demonstrate the functions of Zumtobel's various control systems in an easy, comprehensible manner.

zumtobel.com/onlite





The RESCLITE tool

Calculating spacings easily

Simply turn the wheel: maximum distances from walls and spacings between luminaires – depending on the ceiling height – can be visualised immediately using our practical design tool.

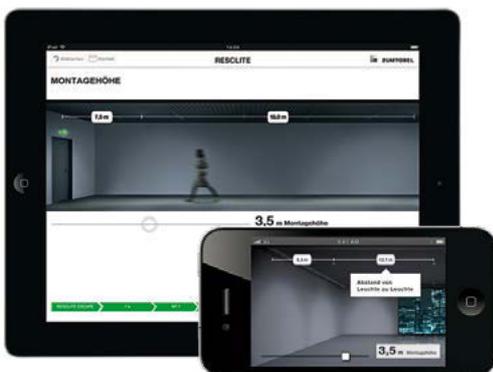


The ONLITE web app

Finding the perfect product easily and quickly

In no more than eight steps, the web app for escape sign luminaires leads the user to the product that is perfect for the respective application. The programme is available free of charge for PCs, tablets and smart phones.

zumtobel.com/ONLITEwebapp



The RESCLITE app

Emergency lighting design using iPhone and iPad

This app for iPhone and iPad make RESCLITE design child's play: how many emergency luminaires are needed, and where do they have to be installed? These design tasks are solved by the app in just three steps, leading to the perfect product. The RESCLITE app is available free of charge in the iTunes Store.

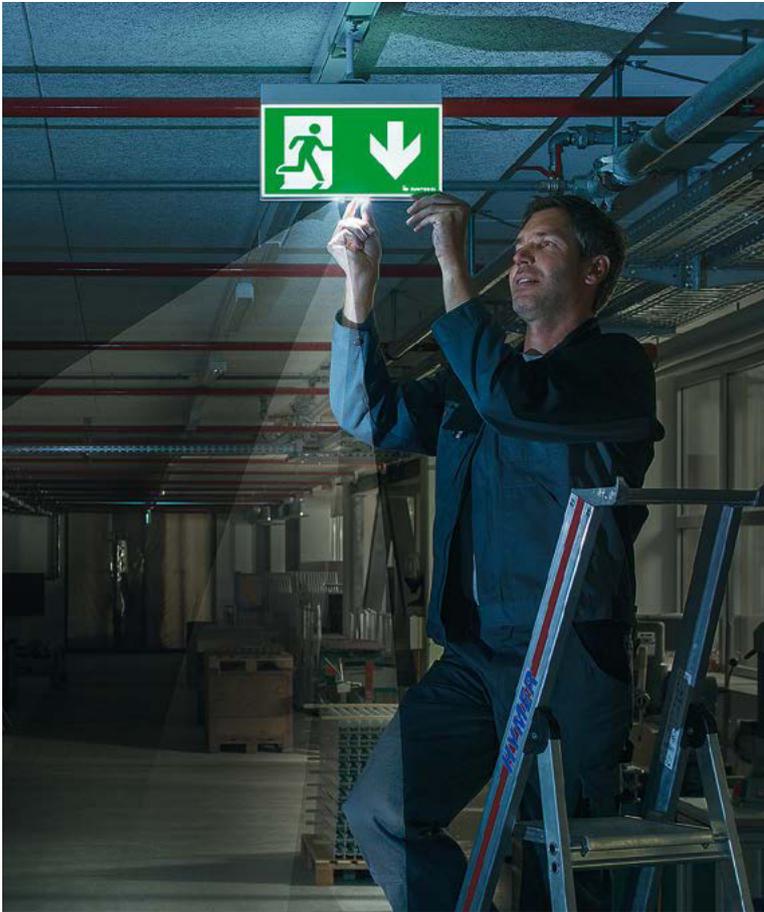


Saving time

During installation and commissioning

Extremely easy installation

ONLITE products are designed to be installed as quickly as possible and using as few tools as possible. The operating instructions show you how to do it, step by step: installation, configuration and commissioning of all the functions of a system. With just a few simple movements of the hand, Zumtobel emergency and escape sign luminaires are ready for operation.



QR code

A QR (quick response) code is attached to all packaging and housings of Zumtobel emergency and escape sign luminaires as well as system products. Simply load the QR code reader app onto your smart phone, scan the QR code, and all at once data sheets, installation instructions, certificates and lots of other information will be available to you online.

zumtobel.com/montage_42180884



The range of services is constantly being expanded in order to help Zumtobel's customers achieve their objectives more quickly and more easily. Experts advise and assist customers during every phase of their project, from the request for proposals and acquisition through to completion of their building project.

Commissioning by Zumtobel

In the case of group and central battery systems such as ONLITE central eBox or CPS, proper commissioning is extremely important. For this purpose, Zumtobel service engineers or special commissioning partners provide support with all their specialist knowledge. Zumtobel uses a global network of partners who regularly undergo training at the Dornbirn location. This means that their know-how is always up to date. After commissioning, regular maintenance and inspection – which are mandatory for emergency lighting systems – ensure that the system is fully functional.



Perfect all-round service

Maintenance and services by Zumtobel

After commissioning, Zumtobel assumes regular maintenance of the emergency lighting installation if required. This ensures permanent availability and operational reliability. In addition, the installation can be adjusted to new building situations on an ongoing basis, for instance in the case of an extension of the building.

zumtobel.com/maintenance



Special maintenance contracts tailor-made for the customer ensure that individual maintenance needs are met – for a fixed sum that can be provided for in the budget. The maintenance contract may include a variety of services:

- Diagnosis of system faults, and immediate fault removal if possible
- Replacement of defective devices during maintenance work
- Software updates
- Instruction of the in-house technician as to how to operate the system
- Data backup and documentation
- Analysis and support via telephone
- Visits on site to inspect the installation

Always close to the customer

Zumtobel has direct contact with its customers and provides support on site if necessary. This is made possible by the company's worldwide distribution and service locations in 23 countries as well as Zumtobel's representative offices in more than 50 countries.





ONLITE Emergency lighting

31 ONLITE
Emergency luminaires



56 ONLITE
Escape sign luminaires



96 General lighting luminaires
as emergency luminaires







ONLITE emergency luminaires

ONLITE RESCLITE

- 32 Design and installation diversity
- 34 Technology and innovation
- 36 Installation variants and protection types

ONLITE RESCLITE high performance

- 38 The most powerful emergency luminaire available on the market

ONLITE emergency luminaires

- 42 ONLITE RESCLITE escape
- 44 ONLITE RESCLITE wall
- 46 ONLITE RESCLITE antipanic
- 48 ONLITE RESCLITE spot

ONLITE RESCLITE high ceilings

- 50 Emergency luminaires for areas with high ceilings

ONLITE RESCLITE

- 52 Product overview

ONLITE emergency lighting

- 54 A comparison

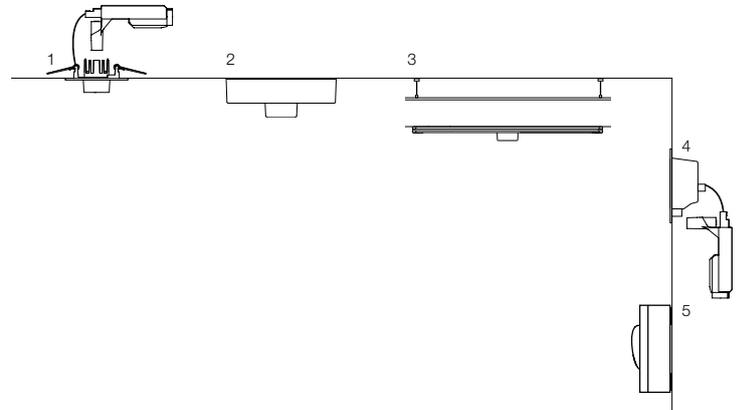
ONLITE RESCLITE

Design and installation diversity



ONLITE RESCLITE reduces the effort needed for installing emergency luminaires to a single twist of the wrist: the luminaires are simply clicked into the ceiling without use of tools.



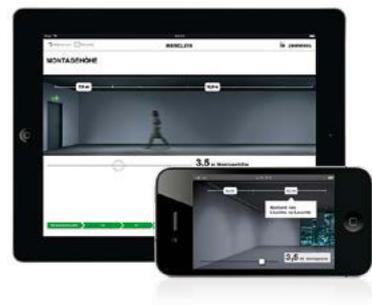


- 1 Recessed into ceiling
- 2 Surface-mounted on ceiling and high ceilings
- 3 TECTON trunking and high ceilings
- 4 Recessed into wall
- 5 Surface-mounted on wall (180°)

Using a power LED and four sophisticated optics, RESCLITE paves the way to a new era of emergency lighting. Thanks to maximum efficiency and perfect light distribution, a few luminaires are enough to provide emergency lighting in conformity with relevant standards. And yet the powerful RESCLITE LED power package requires a minimum of energy.

RESCLITE is available with five different installation methods: for recessing into walls and ceilings, whereby the electronics box with battery and control gear is placed behind the wall or ceiling and the luminaire is fixed via two catches. After fastening the gear tray, the housing for surface mounting to walls and ceilings is simply snapped on, and cable feeding is either from the side or from above. RESCLITE can also be integrated easily into the TECTON continuous-row lighting system using the corresponding variants.

RESCLITE app



ONLITE RESCLITE

Technology and innovation



Gildemeister (DMG), Klaus | AT

Lighting design: Oskar Leo Kaufmann, Dornbirn | A

Lighting solution: ONLITE central CPS and ONLITE local emergency lighting system, ONLITE RESCLITE emergency luminaires, ONLITE ARTSIGN escape sign luminaires, PANOS downlights

The lighting technology of the LED emergency luminaire is dedicated completely to luminaire efficiency. Unequaled in illumination range and uniformity, the LED power package requires only a minimum of energy: only 5 W installed load, and only 1.5 W in standby mode. Correspondingly, only small-scale supply and cable systems are necessary.

Due to the LEDs low wattage, the luminaire produces only very little heat. Batteries and LEDs respond to these ideal operating conditions by featuring low maintenance costs and maximum service life – an active contribution to environmental protection. Despite its compact design, every RESCLITE emergency luminaire boasts convenient features typical of Zumtobel products, such as standard installation terminals for through-wiring, no-tool battery replacement and cabling in compliance with relevant standards.

Individual addressing

RESCLITE supports three different types of addressing – mechanical addressing using the pin supplied with the luminaire, visual addressing with automatic assignment of addresses, and software-assisted EZ addressing.

Status LED

For RESCLITE emergency luminaires with separate battery supply not connected to an SB 128 controller, a function test is performed once a week, in addition to an annual system test. These tests are pre-programmed in the control gear. Various flashing patterns of the status LED indicate the current status.

Thermal management

Although LEDs are very robust and have a long service life, they are sensitive to high temperatures. Due to the LEDs' low wattage the luminaire produces only very little heat, but Zumtobel has also implemented a special thermal management system: special heat sinks attached directly to the LEDs optimally dissipate the heat.

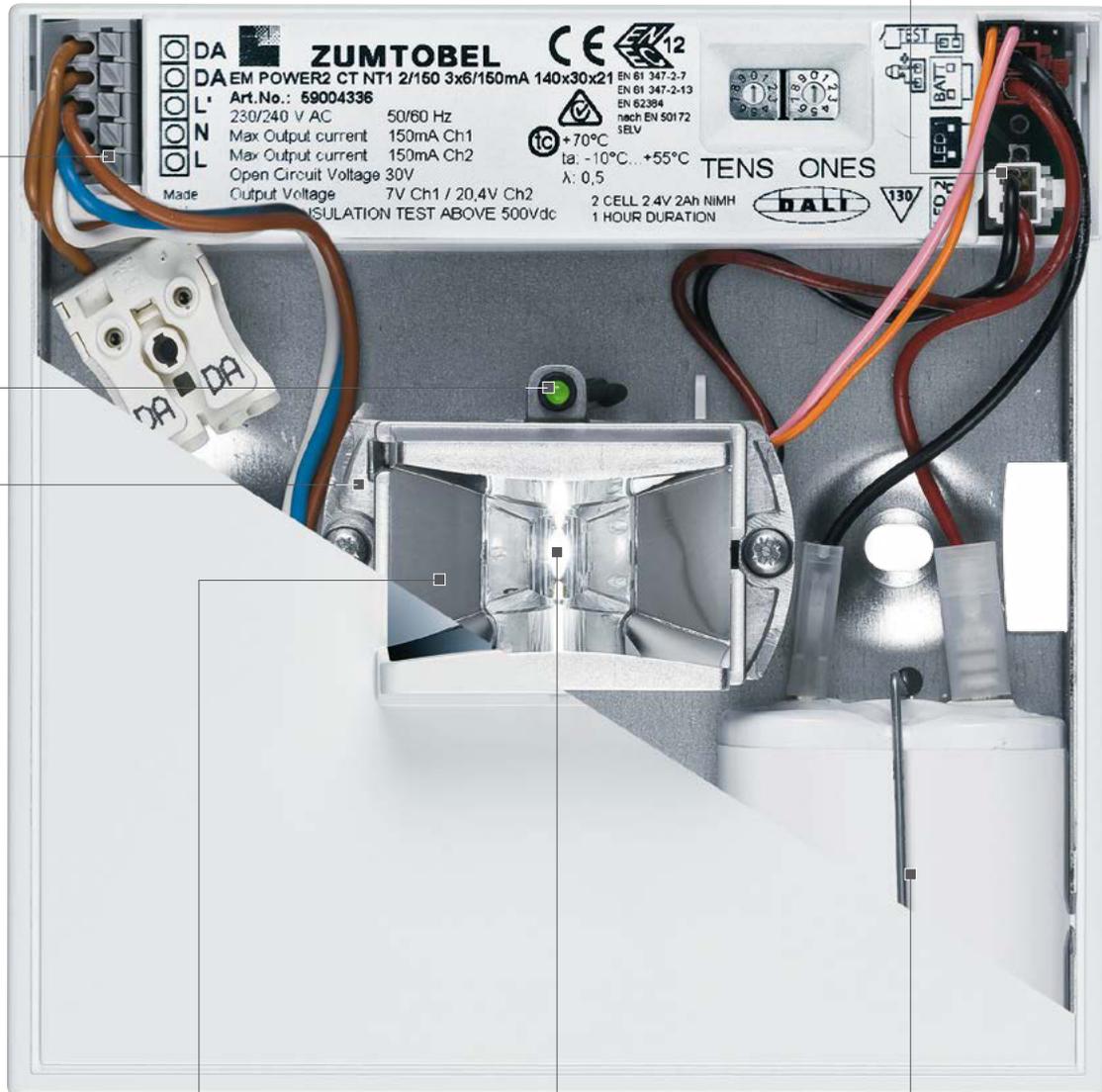


Good protection as standard

RESCLITE luminaires have IP40 as standard for protection against foreign bodies. A RESCLITE version is also available with IP65 protection against dust and strong water jets for use in more adverse ambient conditions such as industrial halls or roofed-over car parks. The luminaire with this protection type is offered with all optics and supply variants for surface-mounting on walls and on the ceiling.



Reverse-polarity protection
 Zumtobel LEDs are protected against reverse polarity – wrong connection of LEDs is excluded due to specific plugs.



Illumination according to requirements
 RESCLITE provides matching optics for every place of use and every application: RESCLITE escape and RESCLITE wall for illuminating escape routes, RESCLITE anti-panic for orientation in the room, and RESCLITE spot for orientation in emergencies.

Comprehensive efficiency
 RESCLITE LED luminaires make do with a power input of less than 5 W. Nevertheless, thanks to special lenses and reflectors, illumination results are achieved that are unique on the market.

Individual supply
 RESCLITE emergency luminaires are available with separate batteries for one or three hours of stand-alone operation or fit for connection to a central supply unit that is circuit-monitored or communicates via DALI or Powerline.

RESCLITE escape surface-mounted IP65
 Shown in original size



ONLITE RESCLITE

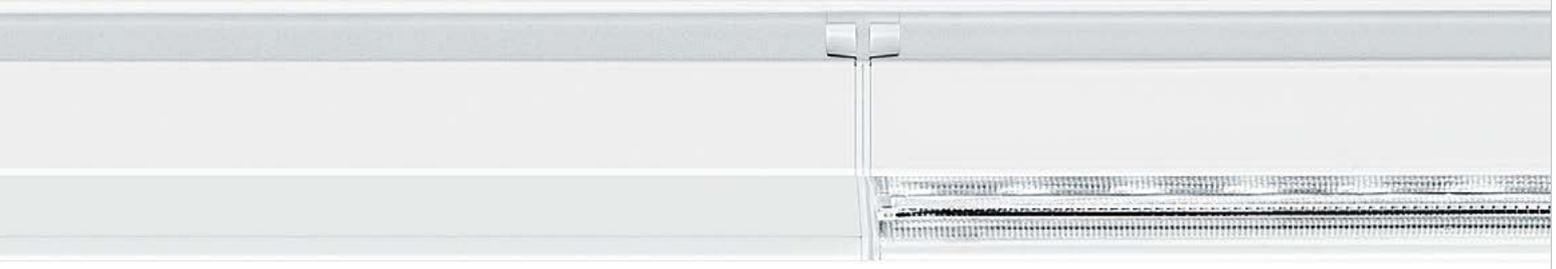
Installation options and protection types



Shown in original size RESCLITE escape TECTON continuous-row system 180°

Integration into Zumtobel's continuous-row lighting systems

RESCLITE emergency luminaires and Zumtobel's continuous-row lighting systems combine to form a highly functional unit. Fitted with appropriate adapters, the escape route, antipanic and spot luminaires can be integrated into the trunking quickly and flexibly. As to supply systems, the entire range of separate and central battery systems are available for integration into the TECTON system. The TECTON luminaire fitted with a rotating lighting head allows perfect illumination of escape routes that are not parallel to the continuous-row system. For integration into the METRUM continuous-row system, the emergency luminaires are available with two optics: escape and antipanic.



RESCLITE wall IP65
Shown in original size

IP 65

Ingress Protection –
The IP classification specifies the protection of electrical operating equipment against foreign bodies, contact with the body and water.

1. code
Dust-tight and fully protected against contact with the body

2. code
Protected against water jet spray from any angle

High IP65 protection type

If you are looking for emergency lighting suitable for tough and challenging ambient conditions, the RESCLITE product range with IP65 rating is the ideal choice. Protected with a special seal, the innovative LED luminaire illuminates escape routes in an emergency, even under difficult conditions. Life-saving first aid equipment can be safely reached and panic avoided. RESCLITE IP65 is available for wall and ceiling mounting in all supply variants.



ONLITE RESCLITE escape high performance



Maximum luminaire spacing

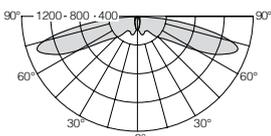
up to 35 m > 1 lux

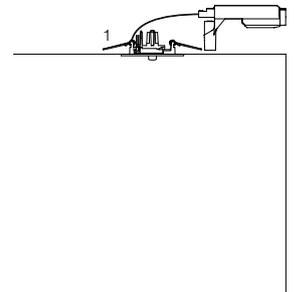
up to 15.6 m > 5 lux

Maximum illuminance levels in unobtrusive design

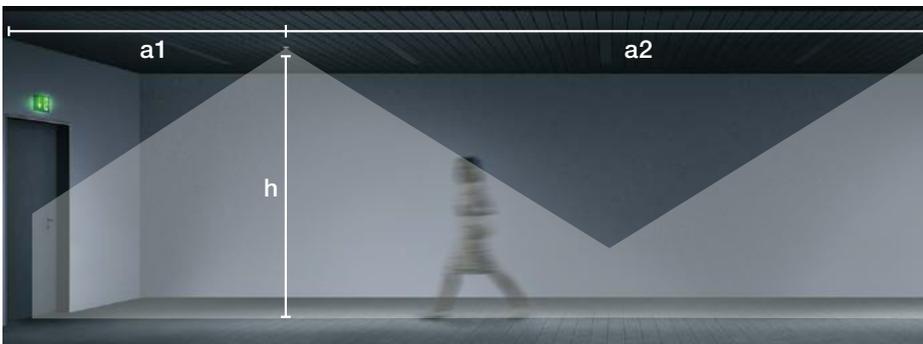
The national standards and laws applicable in some countries require higher illuminance levels than those specified by EN 1838 (e.g. for escape route lighting: 5 lx in Italy and 1 footcandle / 10.76 lx in the MENA region and the USA). RESCLITE escape high performance is the only emergency luminaire available on the market that demonstrably meets these requirements and also allows previously unequalled luminaire spacings. For standard applications (escape route lighting: 1 lx), the maximum distance between 2 emergency luminaires may be up to 35 m. Sophisticated lens design dispenses with the need for a separate reflector. The result: an emergency luminaire that blends into the ceiling in a discreet and elegant manner.

IP 40





1 Recessed into ceiling
 Ceiling cut-out Ø 68 (±2) mm
 Intermediate ceiling height at least 125 mm
 Wall thickness 1–25 mm



h	a1		a2									
	Wall /luminaire max. distance (m)		Luminaire /luminaire max. distance (m)									
	1 lx	Nxx	5 lx	NTx	Nxx	1 fc	NTx	Nxx	1 lx	5 lx	NTx	Nxx
2.2	9.05	9.60	4.40	4.65	4.00	4.00	21.50	22.65	10.60	11.15	8.00	11.00
2.5	9.55	10.15	4.75	5.10	3.50	4.10	22.90	24.15	11.70	12.40	5.50	8.90
3.0	10.25	10.95	4.95	5.45	2.50	2.50	24.95	26.40	13.50	14.00	4.50	4.50
3.5	10.75	11.55	3.40	5.40	2.20	2.00	26.70	28.35	13.95	15.15	4.00	4.00
4.0	11.05	12.00	1.60	2.05	-	1.75	28.20	30.00	13.00	15.60	-	4.00
4.5	11.10	12.25	-	1.65	-	-	29.50	31.45	10.25	12.70	-	-
5.0	10.95	12.35	-	-	-	-	30.45	32.75	5.00	11.10	-	-
5.5	10.00	12.15	-	-	-	-	31.10	33.75	2.00	5.40	-	-
6.0	6.05	11.55	-	-	-	-	31.45	34.40	-	2.25	-	-
6.5	3.80	7.75	-	-	-	-	29.60	34.80	-	-	-	-
7.0	3.35	4.45	-	-	-	-	25.80	34.05	-	-	-	-
7.5	-	4.00	-	-	-	-	24.75	32.15	-	-	-	-
8.0	-	-	-	-	-	-	22.50	27.90	-	-	-	-
8.5	-	-	-	-	-	-	16.95	27.20	-	-	-	-
9.0	-	-	-	-	-	-	11.05	24.75	-	-	-	-
9.5	-	-	-	-	-	-	9.95	18.50	-	-	-	-
10.0	-	-	-	-	-	-	4.60	12.25	-	-	-	-

NTx = NT1, NT3 Nxx = NDA, NSI, NPS



Light source	LED
Installed load	≤ 7,5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40
Housing material	Die-cast aluminium
Housing colours	White RAL 9016
Dimensions	Ø 85 mm x 2.2 mm (recessed)
Application	Escape route lighting EN 1838

Factors of spacing table:
 Maintenance factor: 0.8 | Uniformity: 1:40 max.
 1 lx for escape route lighting in compliance with EN 1838 | Reflection factor: 0
 Minimum illuminance level along the centre line of the escape route: 1 lx
 2/5 lx for escape route lighting in compliance with UNI EN 50172
 Reflection factor: is taken into account | Minimum illuminance level along the centre line of the escape route: 2/5 lx, measured 1 m above the floor
 1 footcandle/10.76 lx for escape route lighting in compliance with NFPA 101 (Life Safety Code) | Minimum illuminance level anywhere along the escape route: 0.1 ft-candle (1.1 lx) | Average illuminance level of escape route: 1 ft-candle (10.76 lx)

ONLITE RESCLITE antipanic high performance



Maximum room illumination

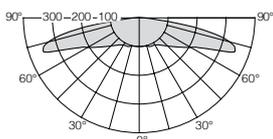
up to 440 m² > 0.5 lux

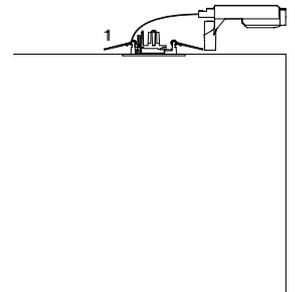
up to 110 m² > 2 lux

The power package with innovative lighting technology

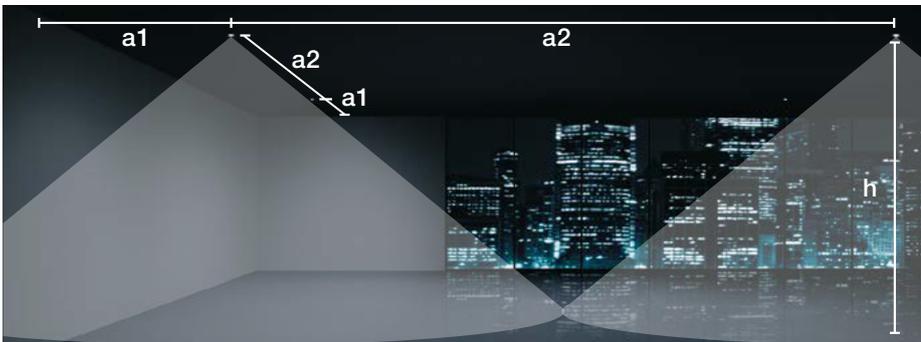
By combining two LEDs with an innovative lens, RESCLITE antipanic high performance is able to achieve extremely wide luminaire spacings, even at increased illuminance levels (required by national laws, e.g. 2 lx in Italy). With the minimum illuminance level of 0.5 lx specified by the EN 1838 standard, luminaire spacings of up to 22 m (more than 400 m²) are now possible. The investment costs can be considerably cut by the lower number of luminaires required as well as the reduced battery output for central battery systems. The innovative lens design results in the antipanic luminaire featuring superior lighting technology with rectangular light distribution, so that rooms can be perfectly lit, even in corners. This makes lighting design considerably easier.

IP 40





1 Recessed into ceiling
 Ceiling cut-out Ø 68 (±2) mm
 Intermediate ceiling height at least 125 mm
 Wall thickness 1–25 mm

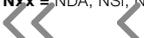


h	a1				a2			
	Wall / luminaire max. distance (m)				Luminaire / luminaire max. distance (m)			
	0,5 lx		2 lx		0,5 lx		2 lx	
Mounting height (m)	NT1.NT3	Nxx	NT1.NT3	Nxx	NT1.NT3	Nxx	NT1.NT3	Nxx
2.2	5.20	5.60	2.50	2.85	14.95	15.85	7.75	8.25
2.5	4.80	5.75	2.35	2.60	15.75	16.75	8.40	9.00
3.0	4.65	5.20	2.15	2.50	16.85	18.00	9.15	9.95
3.5	4.50	5.15	1.75	2.20	17.80	19.10	9.50	10.45
4.0	4.30	4.95	1.25	1.70	18.35	20.00	9.55	10.60
4.5	3.95	4.70	0.70	1.20	18.85	20.40	9.35	10.60
5.0	3.55	4.40	-	0.60	19.05	20.90	9.00	10.30
5.5	3.00	4.00	-	-	19.00	21.10	8.15	9.90
6.0	2.45	3.45	-	-	19.10	21.10	6.95	9.00
6.5	1.95	2.90	-	-	19.00	21.20	5.80	7.80
7.0	1.40	2.40	-	-	18.75	21.10	4.45	6.75
7.5	0.75	1.85	-	-	18.45	21.00	3.30	5.35
8.0	-	1.25	-	-	18.00	20.70	2.20	4.10
8.5	-	-	-	-	17.20	20.30	0.55	3.05
9.0	-	-	-	-	16.30	19.80	-	1.85
9.5	-	-	-	-	15.05	18.90	-	-
10.0	-	-	-	-	13.90	18.10	-	-

Light source	LED
Installed load	≤ 7,5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40
Housing material	Die-cast aluminium
Housing colours	White RAL 9016
Dimensions	Ø 85 mm x 2.2 mm (recessed)
Application	Antipanic lighting EN 1838

Factors of spacing table:
 Factor de mantenimiento: 0,8 | Uniformidad: máx. 1:40
0,5 lux para la iluminación antipánico según EN 1838
 Grado de reflexión: 0 | Mínima iluminancia: 0,5 lux
2 lux para la iluminación antipánico según UNI EN 50172
 Grado de reflexión: se toma en consideración
 Mínima iluminancia: 2 lux, medidos a 1 m sobre el suelo

Nxx = NDA, NSI, NPS



ONLITE RESCLITE escape



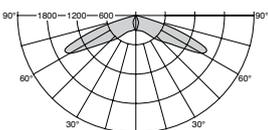
Maximum luminaire spacing up to 26 m > 1 lux

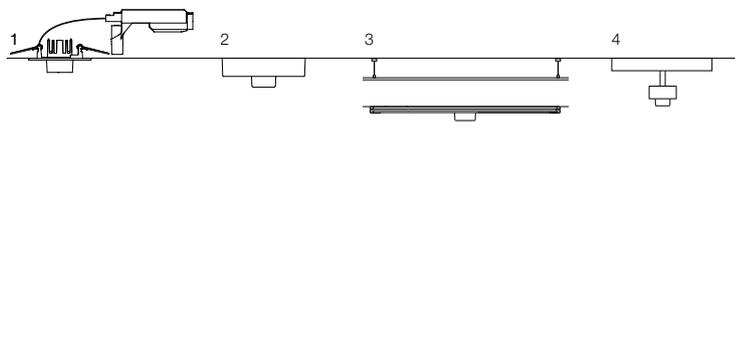
Illuminates escape routes at every turn

The EN 1838 standard specifies a minimum level of illuminance of 1 lx for escape routes on the central floor axis. RESCLITE escape uses the special combination of lens and reflector to focus this light onto a long, narrow area. Its illumination range – and maximum distance between the two luminaires is up to 26 metres. High-quality lighting technology reduces glare and ensures optimum visual conditions in emergency operation as well. This characterises RESCLITE escape as a specialist for escape route lighting in rooms with ceiling heights of between 2.2 and 7 metres. The new RESCLITE high ceilings also enables safety to a height of up to 20 metres. See page 38 for detailed information about emergency lighting for high-ceilinged rooms.

IP 40

IP 65





- 1 Recessed into ceiling**
Ceiling cut-out Ø 68 (±2) mm
Intermediate ceiling height at least 125 mm
Wall thickness 1–25 mm
- 2 Surface-mounted and high ceilings**
Hole spacing 180 x 110 mm
- 3 TECTON and high ceilings**
Length 611.5 mm*
Length 300 mm**
- 4 METRUM**
Length 950 mm (End module 750 mm)

* *Trunking IP40*
** *Swivel head 180° IP20 and high ceilings*



h Mounting height (m)	a1 wall / luminaire max. distance (m)		a2 luminaire / luminaire max. distance (m)	
	IP40		IP65	
	NT1 / NT3 / Nxx	NT1 / NT3 / Nxx	NT1 / NT3 / Nxx	NT1 / NT3 / Nxx
2.2	6.80 / 6.75 / 7.20	6.80 / 6.70 / 7.15	16.00 / 15.85 / 16.80	15.80 / 15.70 / 16.60
2.5	7.25 / 7.20 / 7.70	7.25 / 7.15 / 7.65	17.15 / 17.00 / 18.05	17.00 / 16.90 / 17.85
3.0	8.05 / 7.95 / 8.45	7.90 / 7.85 / 8.40	18.90 / 18.75 / 19.95	18.85 / 18.70 / 19.85
3.5	8.65 / 8.55 / 9.20	8.45 / 8.35 / 9.00	20.50 / 20.30 / 21.65	20.40 / 20.20 / 21.60
4.0	9.15 / 9.05 / 9.75	8.90 / 8.75 / 9.50	22.05 / 21.90 / 23.20	21.85 / 21.60 / 23.10
4.5	9.60 / 7.00 / 10.25	5.15 / 5.10 / 9.95	23.45 / 23.20 / 24.80	21.90 / 21.35 / 24.50
5.0	5.45 / 5.15 / 10.70	3.90 / 3.85 / 5.75	23.30 / 22.60 / 26.15	22.15 / 19.90 / 25.65
5.5	4.20 / 3.95 / 6.30	4.00 / 3.80 / 4.30	22.20 / 21.70 / 26.30	20.70 / 20.45 / 24.75
6.0	3.40 / 3.15 / 5.05	2.90 / 2.55 / 4.45	21.80 / 21.25 / 25.10	16.90 / 15.50 / 23.00
6.5	2.40 / 2.10 / 4.15	1.50 / 1.25 / 3.70	18.15 / 17.05 / 24.65	14.45 / 12.70 / 23.20
7.0	1.00 / - / 3.35	- / - / 2.35	15.65 / 14.70 / 24.00	12.10 / 10.85 / 15.90
7.5	- / - / 2.15	- / - / 1.25	13.10 / 12.25 / 19.00	9.95 / 9.20 / 11.90

Nxx = NDA, NSI, NPS

Light source	LED
Installed load	≤ 5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40 IP65
Housing material	Die-cast aluminium
Housing colours	White RAL 9016 Aluminium RAL 9006
Dimensions W x H x D	Ø 85 mm x 2.2 mm (recessed) Ø 145.7 mm x 34.3 mm (surface-mounted) 200 x 130 x 48.5 mm (surface-mounted IP65)
Application EN 1838	Escape route lighting

Factors of spacing table:
Minimum illuminance: 1 lx on central floor axis,
0.5 lx on half of escape route width | Escape route width: 2 m
Maintenance factor: 0.8 | Reflection factor: 0 | Uniformity: max 40 : 1
Luminous intensity distribution: cd/1000 lm



ONLITE RESCLITE wall



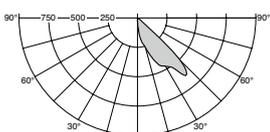
Maximum luminaire spacing up to 15 m > 1 lux

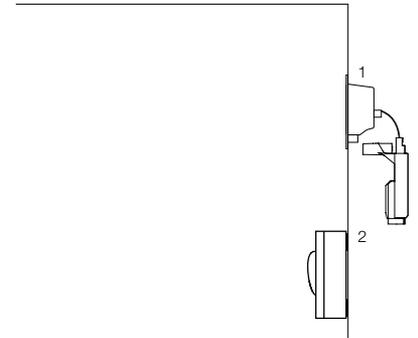
Uses the wall for safe escape route lighting

Where emergency luminaires cannot be installed on the ceiling for visual or technical reasons, for instance because rooms are very high or the ceiling design makes installation impossible, RESCLITE provides an elegant option: square LED wall luminaires with asymmetrical, wide-angle distribution illuminate escape routes, providing minimum illuminance of 1 lux according to the EN 1838 standard on the central floor axis. In this case, luminaire spacings of up to 15 metres are possible.

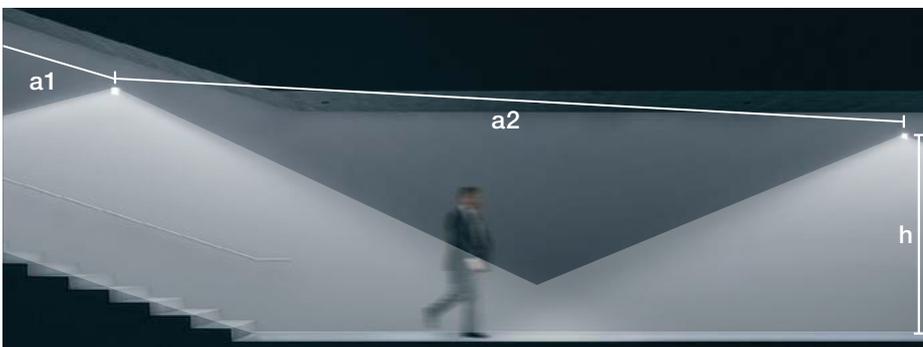
IP 40

IP 65





- 1 Recessed into wall
Wall cut-out 73 (±2) mm
Intermediate wall height min. 125 mm
- 2 Wall-mounted 180°
Hole spacing 168 x 98 mm



h Mounting height (m)	a1 wall / luminaire max. distance (m)		a2 luminaire / luminaire max. distance (m)	
	IP40		IP65	
	NT1	NT3 / Nxx	NT1	NT3 / Nxx
2.2	4.20	4.20 / 4.40	4.20	4.20 / 4.50
2.5	4.40	4.40 / 4.70	4.20	4.20 / 4.60
3.0	4.90	4.90 / 5.20	4.60	4.60 / 5.00
3.5	5.00	5.00 / 5.40	4.80	4.80 / 5.20
4.0	5.20	5.20 / 5.60	4.80	4.80 / 5.40
4.5	5.00	5.00 / 5.80	4.80	4.80 / 5.50
5.0	-	- / - / 5.60	-	- / - / 1.70
5.5	-	- / - / 0.50	-	- / - / -
6.0	-	- / - / 0.50	-	- / - / -

Nxx = NDA, NSI, NPS

Light source	LED
Installed load	≤ 5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40 IP65
Housing material	Die-cast aluminium
Housing colours	White RAL 9016 Aluminium RAL 9006
Dimensions W x H x D	Ø 90 mm x 2.2 mm (recessed) 200 x 130 x 48.5 mm (surface-mounted IP65)
Application EN 1838	Escape route lighting

Factors of spacing table:
Minimum illuminance: 1 lx on central floor axis,
0.5 lx on half of escape route width | Escape route width: 2 m
Maintenance factor: 0.8 | Reflection factor: 0 | Uniformity: max 40 : 1
Luminous intensity distribution: cd/1000 lm



ONLITE RESCLITE antipanic



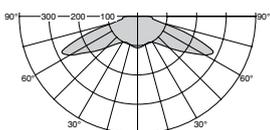
Maximum room illumination
up to 220 m² > 0.5 lux

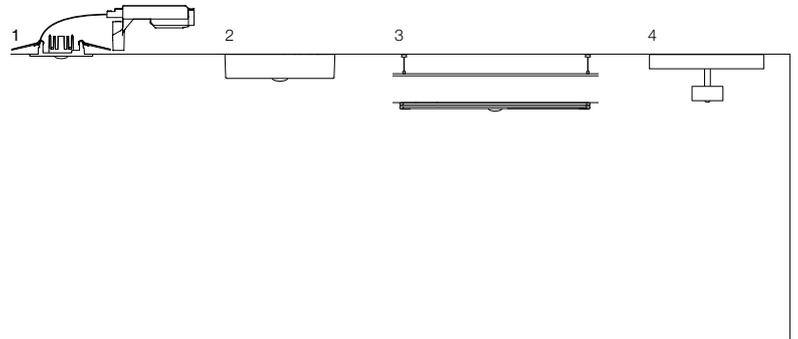
Ensures good orientation in the room

According to EN 1838, at least 0.5 lx on the free floor area is required to avoid panic in emergency situations. With its wide-angle and rotationally symmetrical light emission, the RESCLITE antipanic luminaire is able to illuminate very large areas in an uniform way. Just one single luminaire is enough to provide orientation for an area of 220 m² or make escape routes and obstacles visible. Due to the high colour rendering index and ideal glare control, visual conditions are optimised in an emergency. As a new high ceiling luminaire, RESCLITE antipanic ensures vision in rooms with ceiling heights of up to 29 metres. See page 38 for detailed information about emergency lighting for high-ceilinged rooms.

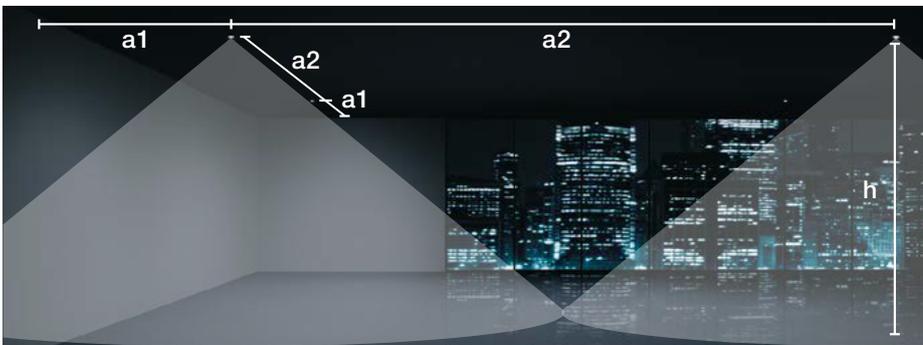
IP 40

IP 65





- 1 Recessed into ceiling**
Ceiling cut-out Ø 68 (±2) mm
Intermediate ceiling height at least 125 mm
Wall thickness 1–25 mm
 - 2 Ceiling-mounted and high ceilings**
Hole spacing 180 x 110 mm
 - 3 TECTON and high ceilings**
Length 611.5 mm*
Length 300 mm**
- * *Trunking IP40*
** *Swivel head 180° high ceilings*



h Mounting height (m)	a1 wall / luminaire max. distance (m)			a2 luminaire / luminaire max. distance (m)		
	IP40		IP65	IP40		IP65
	NT1	NT3 / Nxx	NT1 / NT3 / Nxx	NT1	NT3 / Nxx	NT1 / NT3 / Nxx
2.2	3.95	3.95 / 4.15	3.50 / 3.50 / 3.65	9.50	9.35 / 9.55	8.20 / 8.15 / 8.35
2.5	4.20	4.15 / 4.45	3.85 / 3.80 / 4.00	10.45	10.40 / 10.65	9.10 / 9.10 / 9.30
3.0	3.05	3.00 / 3.45	3.10 / 3.00 / 4.50	11.95	11.85 / 12.40	10.60 / 10.55 / 10.80
3.5	3.15	3.10 / 3.45	3.10 / 3.10 / 3.40	13.05	12.95 / 13.70	11.90 / 11.75 / 12.25
4.0	2.80	2.70 / 3.55	2.70 / 2.65 / 3.55	12.30	12.10 / 14.80	12.70 / 12.55 / 13.45
4.5	2.65	2.55 / 3.15	2.70 / 2.60 / 3.00	12.70	12.55 / 13.75	12.25 / 12.05 / 14.20
5.0	2.35	2.20 / 2.95	2.35 / 2.20 / 3.00	13.20	13.05 / 14.15	12.30 / 12.05 / 13.65
5.5	1.85	1.70 / 2.70	1.70 / 1.60 / 2.65	12.15	11.90 / 14.75	12.50 / 12.30 / 14.00
6.0	1.50	1.40 / 2.20	1.40 / 1.10 / 2.10	12.20	12.00 / 13.70	12.30 / 11.90 / 13.85
6.5	1.20	1.05 / 1.80	- / - / 1.70	12.30	11.85 / 13.60	12.15 / 11.90 / 14.30
7.0	0.55	0.20 / 1.55	- / - / 0.60	11.90	11.65 / 13.80	11.60 / 11.30 / 13.55
7.5	- / - / 1.15	- / - / -	- / - / -	11.70	11.20 / 13.45	11.55 / 10.70 / 13.65
8.0	- / - / 0.15	- / - / -	- / - / -	10.95	10.60 / 13.30	10.75 / 10.50 / 12.90
8.5	- / - / -	- / - / -	- / - / -	10.50	10.20 / 12.85	10.30 / 9.95 / 12.25
9.0	- / - / -	- / - / -	- / - / -	10.00	9.45 / 12.25	8.85 / 8.45 / 12.00

Light source	LED
Installed load	≤ 5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40 IP65
Housing material	Die-cast aluminium
Housing colours	White RAL 9016 Aluminium RAL 9006
Dimensions W x H x D	Ø 85 mm x 2.2 mm (recessed) Ø 145.7 mm x 34.3 mm (surface-mounted) 200 x 130 x 48.5 mm (surface-mounted IP65)
Application EN 1838	Antipanic lighting

Factors of spacing table:
Minimum illuminance: 0.5 lx | Maintenance factor: 0.8
Reflection factor: 0 | Uniformity: max 40 : 1
Luminous intensity distribution: cd/1000 lm

⏪ ⏩ **Nxx** = NDA, NSI, NPS

ONLITE RESCLITE spot



Maximum object illumination

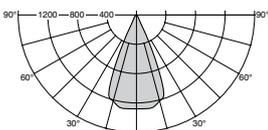
Ø up to 3.8 m > 5 lux

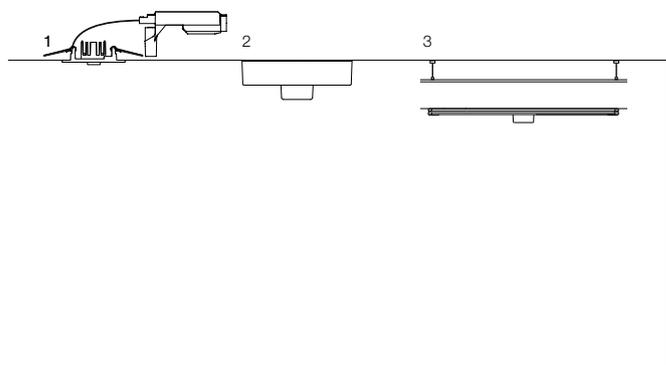
Rescue and alarm facilities are shown in the right light

First aid facilities, fire-fighting tools and fire-alarm systems off escape routes and outside antipanic lighting systems require special attention according to EN 1838. Measured at ground level, they must be illuminated with at least 5 lx. RESCLITE spot complies with these demands along with high safety and low energy consumption. The LED spot can thus be installed anywhere where emergency lighting with higher lighting intensity levels is required. Such applications also include danger areas and safety facilities.

IP 40

IP 65





- 1 Recessed into ceiling**
Ceiling cut-out Ø 68 (±2) mm
Intermediate ceiling height at least 125 mm
Wall thickness 1–25 mm
 - 2 Ceiling-mounted and high ceilings**
Hole spacing 180 x 110 mm
 - 3 TECTON and high ceilings**
Length 611.5 mm*
Length 300 mm**
- * *Trunking IP40*
** *Swivel head 180° high ceilings*



h	Ø	
Mounting height (m)	Diameter (m)	
	IP40	IP65
	NT1 / NT3 / Nxx	NT1 / NT3 / Nxx
2.2	2.70 / 2.60 / 2.80	2.70 / 2.70 / 2.80
2.5	2.90 / 2.90 / 3.00	2.90 / 2.90 / 3.10
3.0	3.10 / 3.10 / 3.30	3.00 / 2.90 / 3.30
3.5	3.20 / 3.20 / 3.50	3.00 / 2.90 / 3.30
4.0	3.30 / 3.30 / 3.60	3.00 / 2.90 / 3.40
4.5	3.40 / 3.30 / 3.70	2.90 / 2.80 / 3.30
5.0	3.30 / 3.20 / 3.80	2.70 / 2.60 / 3.30
5.5	2.90 / 2.60 / 3.70	2.30 / 2.10 / 3.10
6.0	0.90 / 0.70 / 3.50	- / - / 2.70
6.5	- / - / 1.40	- / - / 2.10
7.0	- / - / 0.60	- / - / -

Nxx = NDA, NSI, NPS

Light source	LED
Installed load	≤ 5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40 IP65
Housing material	Die-cast aluminium
Housing colours	White RAL 9016 Aluminium RAL 9006
Dimensions W x H x D	Ø 85 mm x 2.2 mm (recessed) Ø 145.7 mm 145.7 x 34.3 mm (surface-mounted) 200 x 130 x 48.5 mm (surface-mounted IP65)
Application EN 1838	Object lighting

Factors of spacing table:
Minimum illuminance: 5 lx | Maintenance factor: 0.8
Reflection factor: 0 | Uniformity: max 40 : 1
Luminous intensity distribution: cd/1000 lm



ONLITE RESCLITE high ceilings

Emergency luminaires for areas with high ceilings



RESCLITE escape high ceilings

Max. luminaire spacing
up to **22 m > 1 lux**

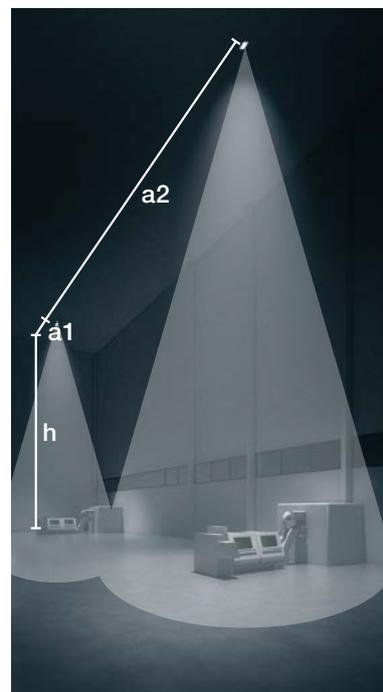
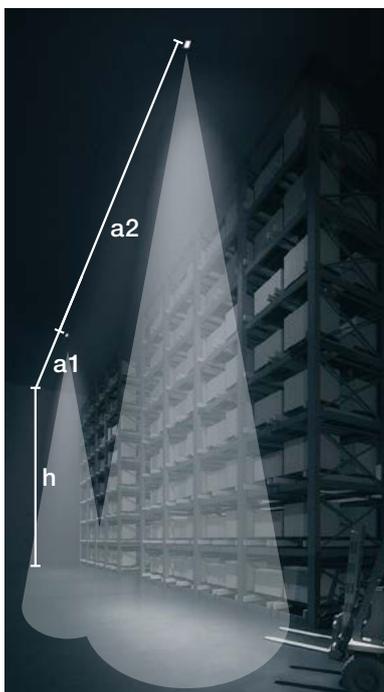
ONLITE RESCLITE escape high ceilings ensures maximum safety for escape routes in areas with high ceilings

The EN 1838 standard specifies a minimum level of illuminance of 1 lux on the central floor axis for a 2 m wide escape route. RESCLITE escape high ceilings uses a special combination of lenses and reflector to focus its light onto a long, narrow strip, resulting in coverage of up to 22 m – which is therefore the maximum distance allowed between two luminaires. It is a unique selling proposition of RESCLITE escape high ceilings that it is able to provide illumination in compliance with relevant standards even at mounting heights of up to 23 m.

Max. room illumination
up to **290 m² > 0.5 lux**

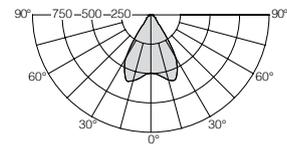
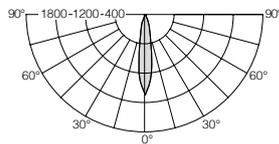
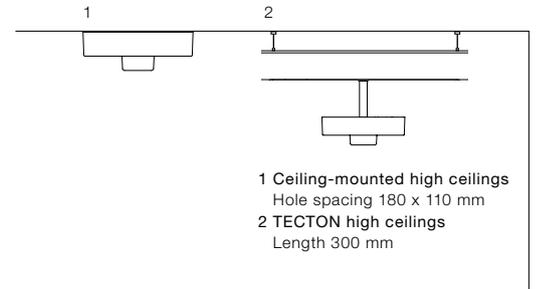
ONLITE RESCLITE antipanic high ceilings ensures safe orientation in areas with high ceilings

In order to reduce the risk of panic in an emergency, EN 1838 requires 1 hour of antipanic lighting with at least 0.5 lux for halls or large conference rooms without clearly defined escape routes. The new RESCLITE antipanic high ceilings luminaire meets this requirement even in rooms with ceilings that are up to 30 m high. Thanks to its rotationally symmetrical wide-angle lighting pattern, a single RESCLITE antipanic high ceilings luminaire is sufficient to uniformly illuminate a surface of 290 m², provide orientation and ensure that escape routes can be safely reached.





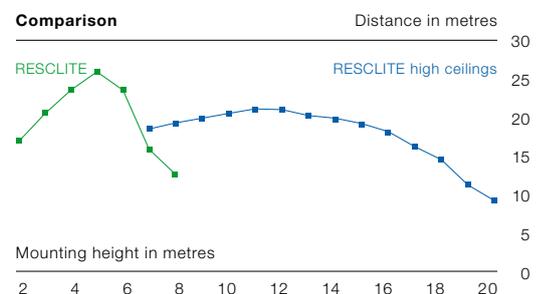
RESCLITE antipanic high ceilings



h	a1*	a2*
Mounting height (m)	wall / luminaire max. distance (m)	luminaire / luminaire max. distance (m)
	NDA, NSI, NPS	NDA, NSI, NPS
7.0	7.45	17.75
8.0	8.00	19.10
9.0	8.50	20.35
10.0	8.35	21.20
11.0	5.95	22.30
12.0	6.00	21.90
13.0	6.00	22.15
14.0	5.25	21.10
15.0	4.20	20.35
16.0	2.90	16.80
17.0	-	17.05
18.0	-	16.15
19.0	-	14.80
20.0	-	10.45
21.0	-	9.65
22.0	-	7.10
23.0	-	4.00

h	a1*	a2*
Mounting height (m)	wall / luminaire max. distance (m)	luminaire / luminaire max. distance (m)
	NDA, NSI, NPS	NDA, NSI, NPS
9.0	4.55	11.65
10.0	4.80	12.45
11.0	5.00	13.25
12.0	5.10	14.05
13.0	5.10	14.90
14.0	4.85	15.65
15.0	4.30	16.40
16.0	-	17.05
17.0	-	15.85
18.0	-	14.50
19.0	-	14.00
20.0	-	13.80
21.0	-	13.85
22.0	-	14.00
23.0	-	14.15
24.0	-	14.10
25.0	-	13.95
26.0	-	13.25
27.0	-	12.60
28.0	-	11.95
29.0	-	11.25
30.0	-	9.85

Light source	LED
Installed load	≤ 5.5 W
Power supply	NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP65
Housing material	Die-cast aluminium
Housing colour	White RAL 9016
Dimensions W x H x D	200 x 130 x 68 mm (surface-mounted IP65) 300 mm (TECTON module length)
Application EN 1838	Escape route lighting Antipanic lighting



IP 65



ONLITE RESCLITE

Product overview

White

Recessed into ceiling

					
IP 40	RESCLITE escape high performance	RESCLITE escape	RESCLITE antipanic high performance	RESCLITE antipanic	RESCLITE spot

Surface-mounted on ceiling

			
IP 40	RESCLITE escape	RESCLITE antipanic	RESCLITE spot
			
IP 65	RESCLITE escape	RESCLITE antipanic	RESCLITE spot
			
high ceilings*	RESCLITE escape	RESCLITE antipanic	

Wall-mounted

	
IP 65	RESCLITE wall

Recessed into wall

	
IP 40	RESCLITE wall

TECTON Continuous-row lighting system

				
IP 20	RESCLITE escape	RESCLITE escape H 180	RESCLITE antipanic	RESCLITE spot

		
high ceilings*	RESCLITE escape	RESCLITE antipanic

Aluminium



RESCLITE escape



RESCLITE antipanic



RESCLITE spot



RESCLITE escape



RESCLITE antipanic



RESCLITE spot

Accessories



Cover frame white



Cover frame aluminium



Concrete casting surround recessed into ceiling



RESCLITE wall



Concrete casting surround recessed into wall

White

METRUM Continuous-row lighting system



IP20

RESCLITE escape H180



RESCLITE antipanic H180

Emergency sets



RESCLITE escape



RESCLITE antipanic



RESCLITE spot



* high ceilings are only available in centrally supplied NDA, NSI and NPS variants.

ONLITE emergency lighting

A comparison

Integration into general lighting

For integration of emergency lighting into the general lighting system, several luminaires are fitted as emergency luminaires at regular spacing intervals. In emergency operation, these luminaires are normally operated at reduced output from the central supply, but do not emit an emergency lighting-specific distribution pattern. Illuminance and lighting quality in conformity with applicable standards can only be achieved with a large number of luminaires.

- Full AC power for the complete emergency lighting system
- High investment costs
- Larger emergency power supply and cable cross-sections

Independent emergency lighting with RESCLITE

With ONLITE RESCLITE, integration of emergency lighting in the general lighting system is no longer necessary. Design as well as installation and commissioning of the system, becomes much simpler because general lighting luminaires and emergency luminaires work autonomously. The lighting technology of RESCLITE luminaires has been specially optimised for use with emergency lighting, with the result that the number of emergency luminaires needed has been significantly reduced.

- Installed load per luminaire maximum 5 W
- Power input of the supply system can be reduced
- System power is up to 85 % less

Independent emergency lighting with RESCLITE and ERI spot

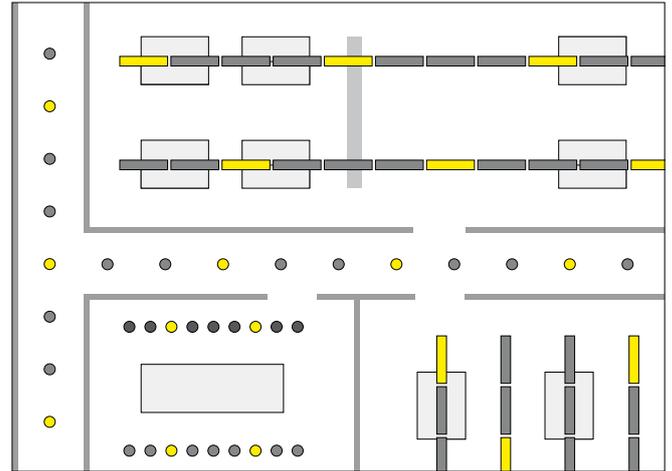
The ERI spots of the PURESIGN 150 and CROSSIGN 110 and 160 escape sign luminaires are the perfect supplement to RESCLITE luminaires. The two LED spots with rotating lenses integrate emergency lighting into the escape sign luminaires. Additional RESCLITE emergency luminaires are not needed with use of escape sign luminaires with ERI spots.

- Lower investment costs
- Luminaire's installed load 4.5 W, energy consumption per ERI spot 1 W
- Lower energy needs reduces required battery capacity

10 x downlights _____ 42 W
 9 x pendant luminaires _____ 54 W

AC power (mains mode) _____ **906 W**
DC power* (emergency mode) _____ **181 W**

* at an emergency lighting level of 20 %

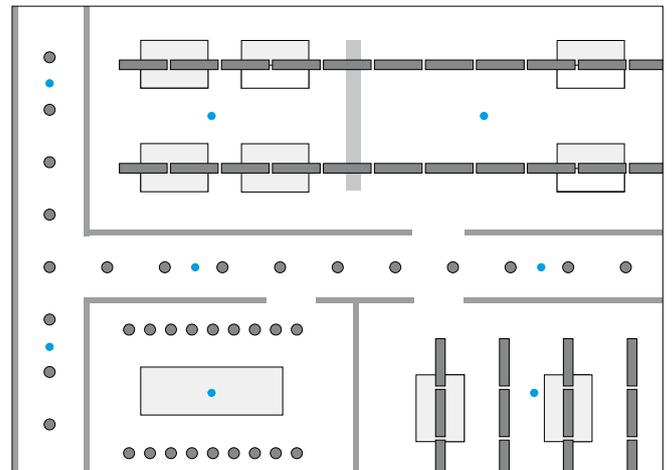


4 x RESCLITE escape _____ 5 W *
 4 x RESCLITE antipanic _____ 5 W *

AC power (standby mode) _____ **12 W**
DC power** (emergency mode) _____ **40 W**

* 1.5 W in standby mode

** at an emergency lighting level of 100 %



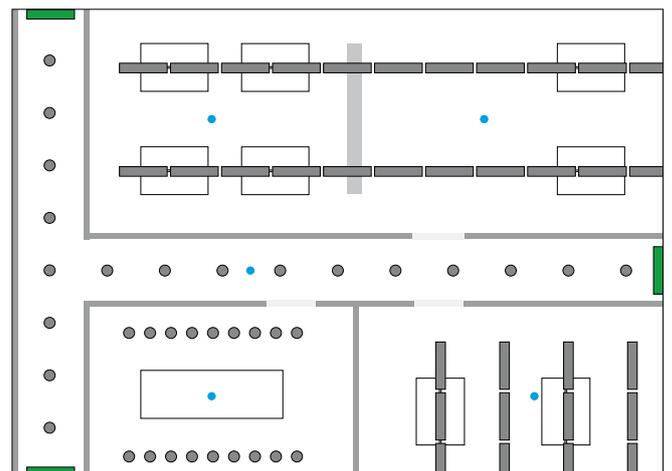
1 x RESCLITE escape _____ 5 W *
 4 x RESCLITE antipanic _____ 5 W *
 3 x ERI spots _____ 3 W **

AC power (standby mode) _____ **7.5 W**
DC power*** (emergency mode) _____ **28 W**

* 1.5 W in standby mode

** 1 W proportional energy consumption per ERI spot

*** at an emergency lighting level of 100 %



	Offices, schools, hospitals	Museums, shops
Mounting height	3.0 m	4.0 m
ERI spot*	8.1 m	8.9 m
RESCLITE escape*	16.4 m	19.5 m

* maximum spacing







ONLITE

Escape sign luminaires

ONLITE is diversity

- 58 Recognition ranges and protection type
- 60 Mounting options
- 62 A common basis for COMSIGN 150 and PURESIGN 150

ONLITE is innovative lighting

- 64 Light distribution and luminance
- 66 Rotating ERI spot
- 68 Energy efficiency

ONLITE is design

- 70 Design by EOOS

ONLITE escape sign luminaires

- 72 ONLITE ARTSIGN
- 74 ONLITE COMSIGN 150
- 78 ONLITE PURESIGN 150
- 82 ONLITE CROSSIGN 110 and 160
- 86 ONLITE ECOSIGN
- 88 ONLITE ERGOSIGN
- 90 ONLITE CUBESIGN 210 and 450
- 92 ONLITE SQUARESIGN 300 and 600
- 94 ONLITE Product overview

ONLITE is diversity

Recognition ranges and protection type

15

16

22

30

IP 65

- 6 Dust-tight and fully protected against contact
- 5 Protected against water jet spray from any angle

IP 54

- 5 Protected against dust in hazardous quantities
Fully protected against contact
- 4 Protected against spray water from all sides

IP 42

- 4 Protected against foreign bodies with Ø from 1 mm
Protected against access with a wire
- 2 Protected against falling drip water if the housing is inclined up to 15°

IP 40

- 4 Protected against foreign bodies with Ø from 1 mm
Protected against access with a wire
- 0 No protection



ERGOSIGN



CROSSIGN
110



COMSIGN
150



PURESIGN
150



ARTSIGN

IP XX

Ingress protection
The IP classification specifies the protection of electrical operating equipment against foreign bodies, contact with the body and water.

1. code
Protection against contact
Protection against foreign bodies

2. code
Protection against water

With ONLITE, Zumtobel offers a comprehensive range of escape sign luminaires in widely diverse sizes and protection types. This enables the right solution for the complete spectrum of applications, building types and building sizes.

The new IP42 standard

In contrast to IP40 protected emergency luminaires normally offered by the market, the new Zumtobel COMSIGN 150, PURESIGN 150, CROSSIGN 110 and 160 escape sign luminaires have IP42 protection as standard. In addition to protection against dust, the luminaires guarantee protection against water. This means they are especially rugged and can also be used in highly adverse environments.



32

42

60

90

120 m



ECOSIGN



CROSSIGN
160



SQUARESIGN
300



SQUARESIGN
600



CROSSIGN
160



CUBESIGN
210



CUBESIGN
450

Pictograms in accordance with ISO 7010

The pictograms of the escape sign luminaires comply with the ISO 7010 international standard, the national standard in many European countries. This means that ONLITE escape sign luminaires are future-fit. Most of the luminaires are available as double-sided versions so that the pictogram is visible from both sides.

Individual escape signs

ONLITE escape signs are printed by the in-house digital print shop. This makes Zumtobel highly flexible in the production of signs and enables panels to be printed with any pictograms. Various national requirements are met and individual pictograms produced.



left



below



right



Selection of individual signs

ONLITE is diversity

Mounting options



PURESIGN 150 ceiling-mounted



PURESIGN 150 TECTON continuous-row system

Zumtobel is unique in the market in offering a wide diversity of mounting options for the various luminaire ranges: other escape sign luminaires are limited to two or three different types, but Zumtobel luminaires are extremely flexible. PURESIGN 150 for example has up to nine different mounting options – each with all supply variants for single and central batteries.

Mounting options

- Recessed into ceiling
- Surface-mounted on ceiling
- TECTON continuous-row system
- ESI cord suspension (recessed in ceiling)
- ASI cord suspension (surface-mounted on ceiling)
- RSI cord suspension (remote box)
- Surface-mounted on wall 90°
- Surface-mounted on wall 180°
- Recessed into wall



PURESIGN 150 cord suspension RSI

TECTON continuous-row system

The option of integrating emergency lighting is one of the success factors of the 11-pole, pre-wired continuous-row system. Equipped with special adapters, the escape sign luminaires are simply clicked into the trunking and – independent of the alignment of the continuous row – rotated at right angles to the escape route.

PURESIGN 150: TECTON continuous-row system example



RSI remote box

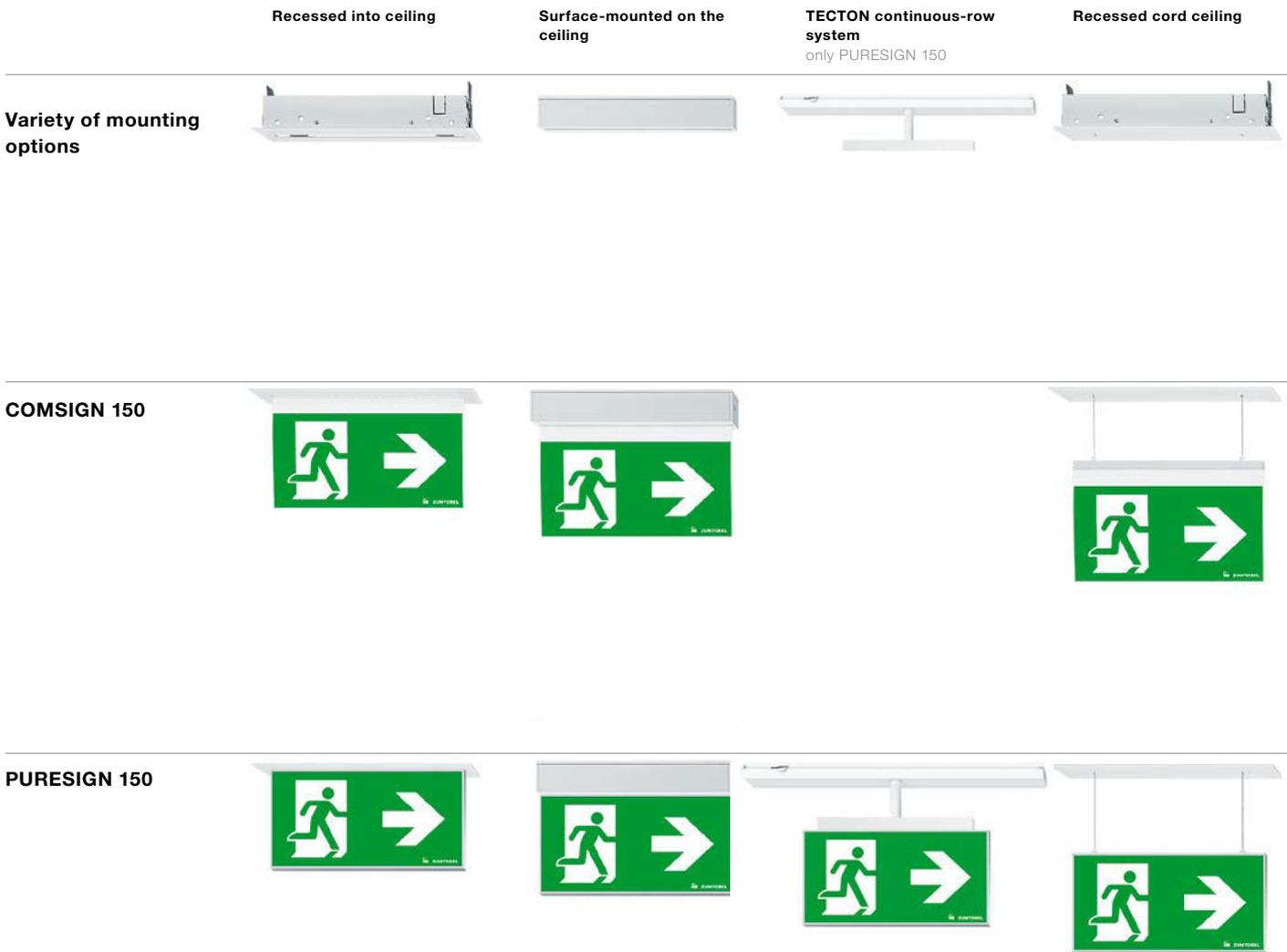
The electronic system and the battery disappear completely into the ceiling with variants with a separate technology box. The luminaires appear to float freely in the room. No tools are needed for mounting the RSI remote box into the ceiling, and mains connection is on the ceiling recessed housing.

COMSIGN 150 RSI: RSI remote box example



ONLITE is diversity

A common basis for COMSIGN 150 and PURESIGN 150

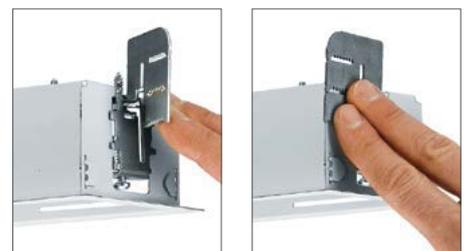


The Zumtobel ONLITE emergency and escape sign luminaire product range has gained many new options with PURESIGN 150 and COMSIGN 150: in addition to the classic variants for recessing into and surface-mounting on walls as well as recessing into and surface-mounting on ceilings, the new cord variants enable a high level of mounting flexibility. Cord mounting is available for the surface-mounted and recessed luminaires as well as for luminaires with RSI remote box.

The popular option of integrating emergency lighting into TECTON continuous-row systems is also possible with the new luminaires: equipped with special adapters, the luminaires are simply clicked into the trunking. The same electronics box with control unit, terminals and battery is used with almost all variants. Only the escape sign changes.

Levelling kit for easy installation

The new levelling kit means mounting luminaires is child's play: simply position the surface-mounted or recessed box at the installation location and rotate the levelling screw to open a metal component. Further fastening attaches this component to the wall or ceiling – the luminaire is fixed securely.



Surface-mounted cord

Remote box ceiling

Recessed into wall
only PURESIGN 150

Surface-mounted on wall 180°
Product differences

Surface-mounted on wall 90°



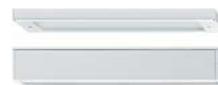
PURESIGN 150

COMSIGN 150



Wall-mounting 180° and 90°

A special electronics box is available for flush 180° wall-mounting of PURESIGN 150, already pre-mounted to the luminaire. For the 90° wall-mounted COMSIGN 150 and PURESIGN 150 variants, the ceiling-mounted box is used with mounting brackets that are separately ordered.



COMSIGN 150
installation accessories
Surface-mounted on wall 180°

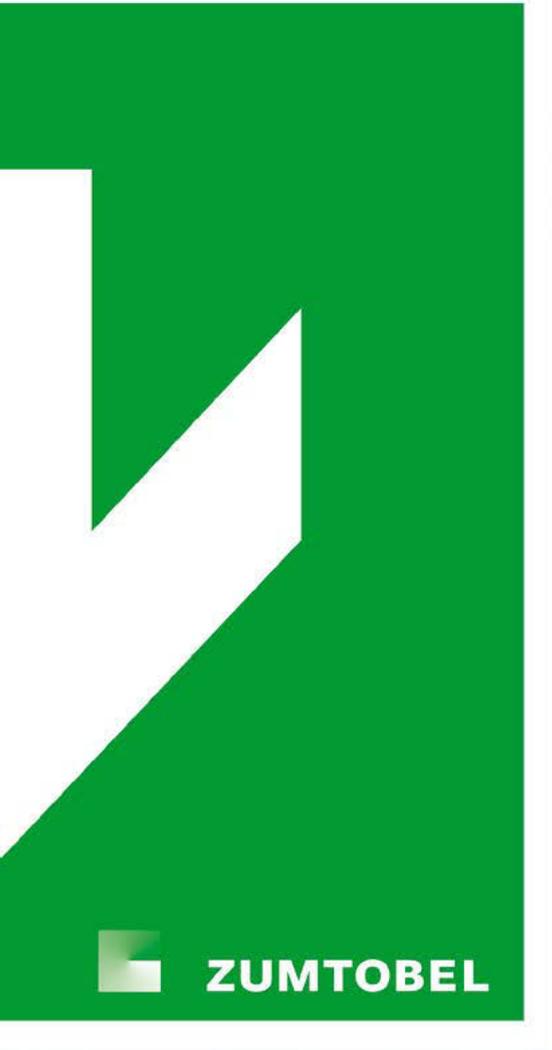
COMSIGN 150 / PURESIGN 150
installation accessories
Surface-mounted on wall 90°

COMSIGN 150 / PURESIGN 150
installation accessories
Ceiling surface-mounted NT1,
NT3

COMSIGN 150 / PURESIGN 150
installation accessories
Surface-mounted on ceiling NSI,
NDA, NPS

ONLITE is innovative lighting

Light distribution and luminance



CROSSIGN 160 front view



CROSSIGN 160 side view
Cross-section with a view of the LED lens

Requirements of escape sign luminaires

Luminance requirements in accordance with DIN 4844
200 cd/m² in mains mode
2 cd/m² in emergency mode

Colour
ISO 7010

Luminance ratio
 $5 : 1 \leq \frac{\text{Luminance white}}{\text{Luminance colour}} \leq 15 : 1$

Switch-on delay for required illuminance
Within 5 seconds 50 %
Within 60 seconds 100 %

Uniformity
Luminance in the specific colour $\leq 10 : 1$

Uniformity thanks to LED lense

With CROSSIGN 110 and 160, a newly developed and specially curved lens guides the light of the LED string positioned below upwards via the pictogram. Luminance measurement underlines the very high level of uniformity of the escape sign luminaire.



- 70 cd/m²
- 110 cd/m²
- 160 cd/m²
- 210 cd/m²
- 600 cd/m²

The LED is a point light source, and yet Zumtobel escape signs are illuminated with perfect uniformity. To optimise luminance and light distribution, Zumtobel takes advantage of decades of experience with lighting technology: special optics ensure that the light is distributed efficiently and uniformly. With the perfectly coordinated interplay of LED light sources, lenses and pictograms, luminaires are produced that thanks to their uniformity and slender shape have an appealing appearance and also ensure safety in emergency situations.

Luminance

In most European countries, an average luminance of 2 cd/m^2 is sufficient to mark escape routes according to relevant standards. Only Germany specifies a luminance level of 200 cd/m^2 or 500 cd/m^2 in the white range. Zumtobel offers this luminance level increased by a factor of 100 for all escape sign luminaires to ensure maximum safety.



Illumination with pictogram luminance of 2 cd/m^2



Illumination with pictogram luminance of 200 cd/m^2

Uniformity thanks to a panel

The acrylic glass panels of ARTSIGN and COMSIGN 150 function both as pictograms and optics. The wedge-shaped panel distributes light uniformly across the pictogram to illuminate the way to safety.



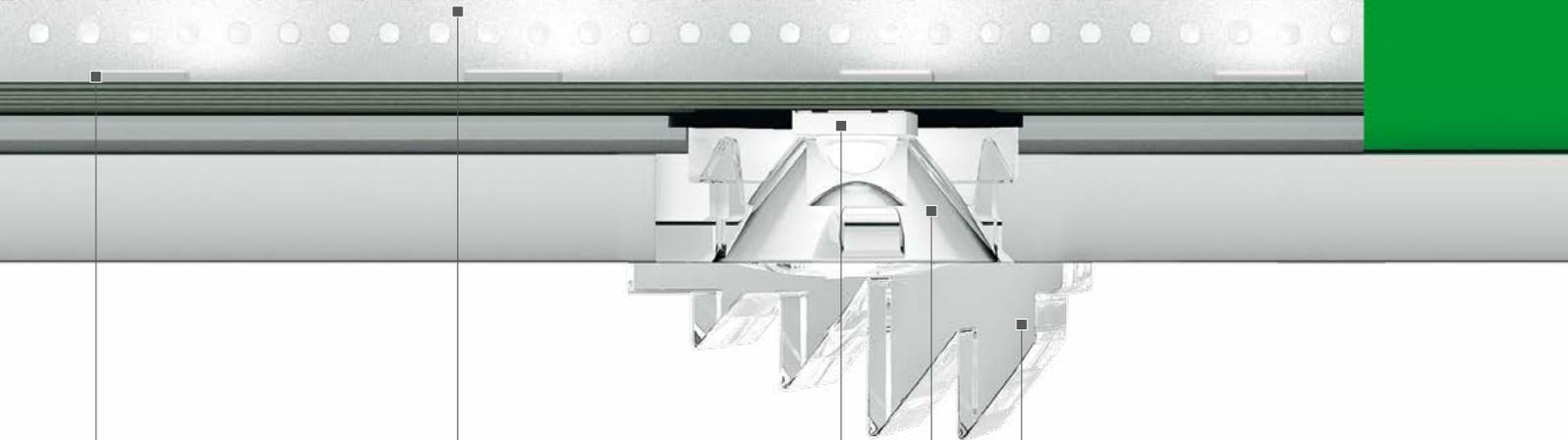
Uniformity with a light guide panel

In PURESIGN 150 and ERGOSIGN, light distribution is adjusted by a light guide panel. A special laser engraving distributes the light uniformly across the luminaire to achieve a perfectly illuminated pictogram.



ONLITE is innovative lighting

Rotating ERI spot



LED string

With just 3 W power consumption, the pictogram is illuminated with perfect uniformity at an average luminance level of 200 cd/m² (500 cd/m² for the white range), thanks to special fibre-optic technologies.

LED spot

With an installed load of just 0.5 W, the spot illuminates up to 6.5 metres of escape route. Aligned in opposite directions, they illuminate distances of up to 13 metres.

ERI spot

Two LED spots attached to the underside of the CROSSIGN 110 and 160 and the PURESIGN 150 escape sign luminaires act as emergency lighting.

Light guide panel

A new, optimised laser structure upgrades the PURESIGN 150 light guide panel. Perfectly uniform illumination is ensured while the luminaire's energy efficiency is enhanced.

ERI lens

The snap-in fitting method means that the lens can be securely attached to the luminaire and manually adjusted in 90° increments.

Finding your way safely in an emergency

The ERI spot is an energy-efficient LED spot which is combined with a patented lens. This lens focuses 0.5 W light to form incredibly powerful lighting cones, which rotate easily to adapt to any building situation. Specially developed for the PURESIGN 150 and the CROSSIGN 110 and 160 luminaires, this lens also directs the light for optimum escape route illumination. Escape sign and emergency luminaires therefore become one product. In many cases, no extra emergency luminaires are needed. The patented, rotating ERI lenses illuminate escape routes for up to 13 metres to ensure a safe exit.

Rotating lens

Luminaires with ERI spots feature two rotating lenses on the underside, which can be manually adjusted in 90° increments. The lighting cones can therefore be aligned to the escape route and adjusted locally to the building situation. Irrespective of whether the luminaire is fixed in a corner or above intersecting escape routes, the light beam can be optimised and adjusted with a single flick of the wrist.



Shown in original size



ERI lenses are aligned in opposite directions with an offset of 90° in the diagram

Lenses aligned in same direction*

h	0.5 lx a1 / a2	1.0 lx a1 / a2	2.0 lx a1 / a2	5.0 lx a1 / a2
2.0	7.5 / 2.2	7.1 / 1.4	5.8 / 0.9	0.1 / 0.2
2.2	8.0 / 2.2	7.0 / 1.4	5.9 / 0.9	0.2 / 0.2
2.4	8.5 / 2.2	7.3 / 1.4	6.0 / 0.8	
2.6	9.0 / 2.0	7.6 / 1.4	6.2 / 0.8	
2.8	9.4 / 2.0	7.9 / 1.4	6.3 / 0.6	
3.0	9.8 / 2.0	8.1 / 1.4	6.4 / 0.2	
3.2	10.1 / 2.0	8.3 / 1.4	0.7 / 0.8	
3.4	10.4 / 1.8	8.5 / 1.2	0.6 / 0.6	
3.6	10.7 / 1.8	8.6 / 1.0	0.5 / 0.5	
3.8	11.0 / 1.8	8.8 / 0.9	0.4 / 0.5	
4.0	11.2 / 1.8	8.9 / 0.8	0.3 / 0.4	

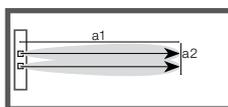
Lenses aligned in opposite directions – offset by 90° or 180° *

h	0.5 lx a1 / a2	1.0 lx a1 / a2	2.0 lx a1 / a2
2.0	6.70 / 2.00	5.65 / 1.30	4.50 / 0.70
2.2	7.10 / 2.00	5.75 / 1.20	4.55 / 0.40
2.4	7.40 / 1.90	6.10 / 1.10	2.80 / 0.30
2.6	7.65 / 1.80	6.20 / 1.00	0.75 / 0.70
2.8	7.90 / 1.70	6.35 / 0.90	0.60 / 0.50
3.0	8.20 / 1.60	6.40 / 0.80	0.50 / 0.40
3.2	8.30 / 1.40	6.40 / 0.60	0.45 / 0.30
3.4	8.55 / 1.40	3.80 / 0.30	0.40 / 0.30
3.6	8.75 / 1.40	1.00 / 1.00	0.25 / 0.20
3.8	8.85 / 1.40	0.75 / 0.90	
4.0	8.95 / 1.30	0.75 / 0.80	

* Values at a maintenance factor of 0.8.
All details in metres (m).

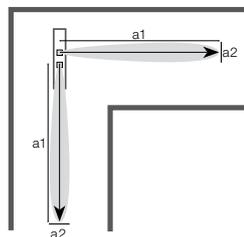
Lenses aligned in the same direction

If both lenses are aligned in the same direction, the light from the individual ERI spots is intensified. Depending on the ceiling height, up to 9 metres of escape route are illuminated.



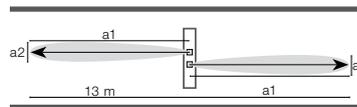
Lenses aligned in opposite directions – offset by 90°

Aligned at right angles, the ERI spots can be used to illuminate intersecting escape routes for up to 6.4 metres.



Lenses aligned in opposite directions – offset by 180°

Aligned in opposite directions, the two ERI spots illuminate up to 13 metres of escape route. No additional emergency luminaires are needed.



ONLITE is innovative lighting

Energy efficiency

Fluorescent lamps

LED first generation

LED second generation

- 54%

Zumtobel is synonymous with the very best energy efficiency

Zumtobel consistently develops its products and aims to provide highly slender, safe and energy efficient luminaires. ONLITE takes on a pioneering role with upgrading of the complete range to modern LED technology: new products such as COMSIGN 150, PURESIGN 150, CROSSIGN 110 and 160 increase efficiency by up to 60%, and each LED luminaire cuts costs for power thanks to lower installed loads. With centrally supplied escape sign luminaires, the central battery complies with the installed load. For LED luminaires this is often correspondingly low, which in turn reduces investment costs for the lighting system.

comparison of escape sign luminaire generations

	Fluorescent lamps	LED 1st generation	LED 2nd generation	Savings comparison
PURESIGN 2-sided	10.7 W	5.7 W	4.5 W	-58 %
PURESIGN 1-sided	7.7 W	6.0 W	4.5 W	-42 %
COMSIGN 1-sided	9.5 W	7.3 W	4.5 W	-53 %
CROSSIGN 1-sided	9.5 W*	5.7 W*	5.5 W	-42 %

* ECOSIGN for comparison



- 31%

Amortisation example

A classic project with 100 escape sign luminaires in maintained mode clearly shows how costs for emergency lighting installations are significantly reduced with the use of modern LED technology and thanks to low energy consumption and maintenance.

	ECOSIGN 8 W	CROSSIGN 160 LED 3 W
Project (24 h operation)		
Number of escape sign luminaires	100	100
Lighting solution service life (Y)	10	10
Light source service life (h)	4 000	50 000
Installed load (W)	10.5	4.5
LENI (energy consumption in kWh / year)	91.98	39.42
Total costs (of lighting solution over 50 000 h)		
Luminaires, electricity and maintenance	50 372	19 669

Savings (for utilisation period over 50 000 h)

Total savings	-61 %
Total cost savings	30 703 €
CO ₂ emission reduction	33 638 kg

Luminaire costs

Fluorescent lamp	9 200 €	
LED	8 500 €	-8%

Electricity costs

Fluorescent lamp	13 797 €	
LED	5 913 €	-57%

Maintenance costs

Fluorescent lamp	27 375 €	
LED	5 256 €	-81%

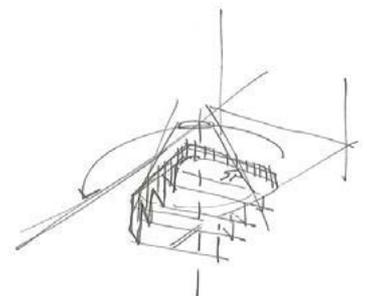


ONLITE is design

Design by EOOS



“The innovative interplay of lighting technology and design lies behind the design of a new lens system for escape route illumination: ERI – Escape Route Illumination. The crystalline element complies with technical lighting requirements as well as with ergonomic and aesthetic demands.”





DESIGN | EOOS

“The perfectly illuminated sign is essential for the discrete presence of the escape route symbol, which is either suspended in the room or attached to the wall or ceiling. The design has been further optimised so that the technology is now fully concealed in the wall or ceiling. This concealment makes the escape route signs even less obtrusive. Wherever luminaires appear in a room as objects, particular attention has been paid to minimalism and the perfection of details and their material presence. The designs have been reduced to what is technically feasible, and required the development of new LED light guide systems as well as the optimising of the existing ones.” The complete development of the new ONLITE luminaires achieved such perfection that the PURESIGN 150 was awarded the if product design award 2013 for its unobtrusive and sophisticated design.

ONLITE ARTSIGN



A design sensation in its own right

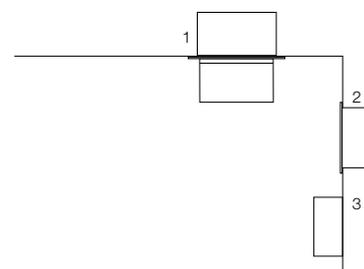
ARTSIGN is the smallest escape sign luminaire in the ONLITE range. With a recognition range of 15 m, it is about the size of a postcard and blends harmoniously into any room. Without any maintenance required, it works reliably over many years. Absolutely maintenance-free high power LEDs ensure a long service life. Thanks to state-of-the-art lighting technology and a high light output ratio, the escape sign is illuminated in conformity with relevant standards at a luminance level of 500 cd/m² in the white range.

Design | Matteo Thun

IP 40
15 m

zumtobel.com/artsign





- 1 Recessed into ceiling**
Ceiling cut-out
180 (±2) x 48 (±1) mm
- 2 Recessed into wall**
Wall cut-out
172 (±2) x 109 (±2) mm
- 3 Surface-mounted on wall 180°**
Hole spacing 110 mm
Central cable feed



Light source	LED > 500 cd/m ² (white)
Installed load	3.2 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40
Housing material	Extruded aluminium section
Housing colour	Anodised aluminium RAL 9006
Dimensions W x H x D	150 x 85 x 13 mm
Recognition range EN 1838	15 m

ONLITE COMSIGN 150



The peak of LED technology

The new generation of COMSIGN 150 perfects what has already been well-received: the transparent acrylic glass is now even more light-weight, while the high-quality aluminium attachment enhances the delicate design. Aesthetic and functional aspects are met by the gently curving wedge design. With luminance levels of more than 500 cd/m², COMSIGN 150 achieves a high level of uniformity and a far higher luminance level than required. Combined with the qualities of an innovative LED luminaire – extra-long service life at constant light output – this escape sign luminaire boasts a special talent for low operating costs.

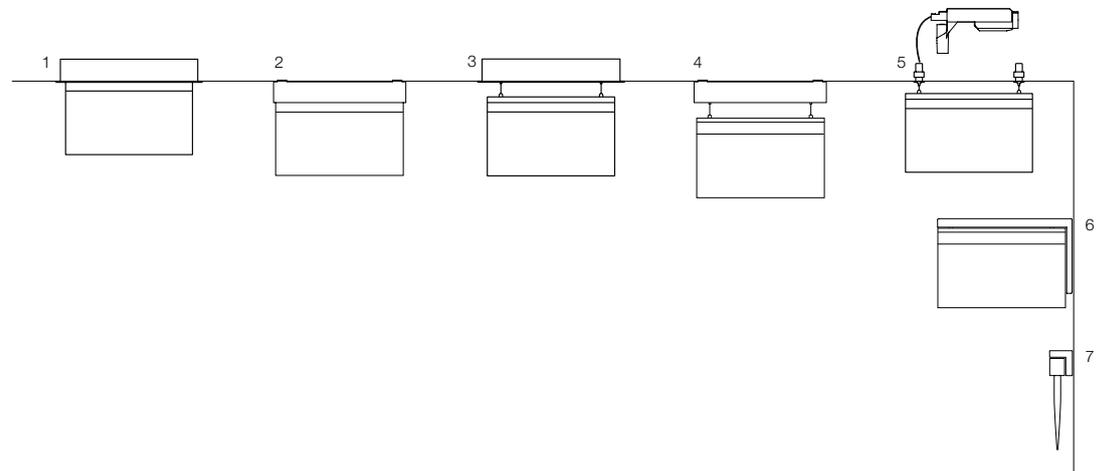
Design | EOOS

IP 42^{*}
30 m

* Surface-mounted on ceiling and wall (90° and 180°)

zumtobel.com/comsign





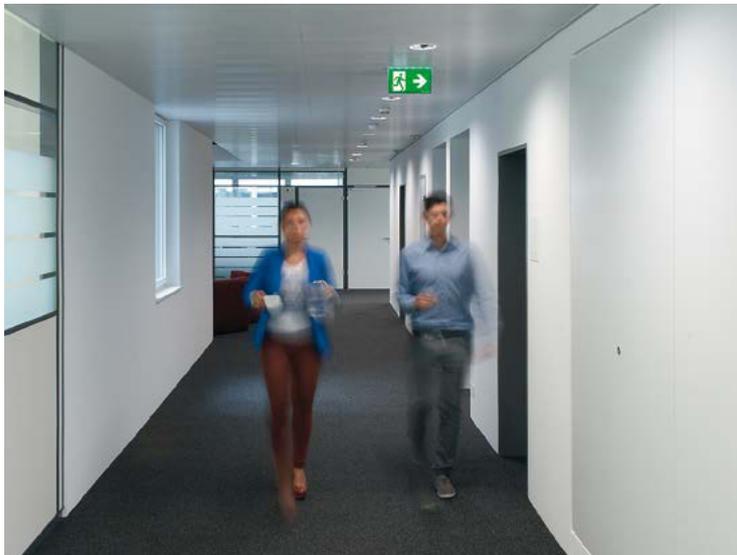
- 1 Recessed into ceiling** ^c
Ceiling cut-out
330 (±2) x 76 (±2) mm
- 2 Surface-mounted on ceiling** ^a
Hole spacing 270 mm
Cable feed 28/58 mm*
- 3 ESI cord suspension** ^c
Ceiling cut-out
330 (±2) x 76 (±2) mm
- 4 ASI cord suspension** ^b
Hole spacing 270 mm
Cable feed 28/58 mm*
- 5 RSI cord suspension** ^c
Ceiling cut-out Ø 236 mm
Hole spacing 236 mm, Ø 17 mm
- 6 Surface-mounted on wall 90°** ^a
Hole spacing 28,5 mm
Cable feed above first mounting point
- 7 Surface-mounted on wall 180°** ^c
Hole spacing 140 mm
Central cable feed
- * distance from first mounting point
^a IP42 | ^b IP40 | ^c IP40/20



Light source	LED > 500 cd/m ² (white)
Installed load	4.5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP42 IP40 IP40/20
Housing material	Extruded aluminium section
Housing colour	Silver powder-coated
Dimensions	
W x H x D	300 x 187.5 x 15.5 mm
Recognition range	
EN 1838	30 m

ONLITE COMSIGN 150

Technology and innovation



Trina Solar (Switzerland) AG, Wallisellen/Zurich | CH

Electrical consultants: Schibli Elektrotechnik, Spreitenbach/Zurich | CH
Lighting solution: ONLITE RESCLITE emergency luminaires, ONLITE COMSIGN and ECOSIGN escape sign luminaires, CIRCLE control point, PANOS INFINITY downlights, AERO II Hybrid surface-mounted and suspended luminaires, SUPERSYSTEM modular lighting system, LINARIA continuous-row lighting system, CAPA free-standing luminaires

Innovative acrylic glass wedge

The transparent acrylic glass panels of COMSIGN 150 work both as pictograms and optics. Light is uniformly distributed across the wedge-shaped unit to illuminate the way to safety. Still lighter and with more simplified installation on walls, ceilings and via cords, the transparent acrylic glass shows itself from its best side. The pendant version of the elegant escape-sign luminaire seems to float in the room.

Temperature range

	Maintained mode	Non-maintained mode
NT1, NT3	+5 °C to +30 °C	+5 °C to +40 °C
NDA, NSI	-20 °C to +40 °C	-20 °C to +40 °C
NPS	-5 °C to +40 °C	-5 °C to +40 °C

Elegant product design

The slender lighting wedge of the COMSIGN 150 is fixed to a slimline surface mounting box of high-grade aluminium. Suspended via cords from the ceiling, the escape sign luminaire appears to float freely in the room thanks to its minimalist design.

Perfect light distribution

The wedge-shaped acrylic glass panel serves as light distributor and pictogram in one element: the curved form distributes the light of the LED strip uniformly across the complete pictogram.

Good protection as standard

COMSIGN 150 is available with IP42 protection for optimum protection against dust and drip water at an inclination of up to 15°. The luminaire is thus suitable for a wide variety of applications, even in adverse ambient conditions.



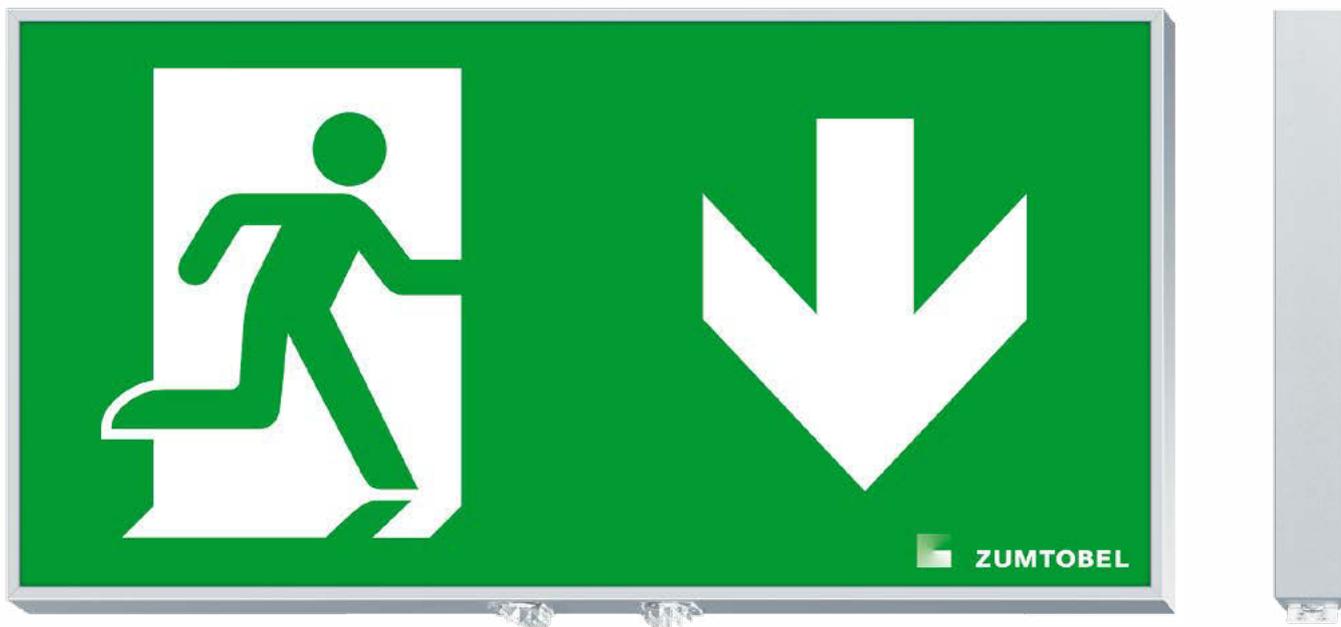
Efficient and durable

Subdivided into 4 segments each with 6 diodes, 24 LEDs illuminate the COMSIGN 150 lighting wedge from above. The 24 light points consume merely 4.5 W of energy in total. With the Maintenance function with subsequent current feed, luminous flux remains constant over the complete 50000 hour service life. More light is therefore available in emergency situations compared to other escape sign luminaires on the market, which in turn significantly increases safety.



COMSIGN 150 ESI cord suspension
Shown in original size

ONLITE PURESIGN 150



Great lighting technology in a slender design

Zumtobel is collaborating with the renowned EOOS design studio to develop escape sign luminaires boasting clear functionality and an elegant design. At a width of just 20 mm, the slimline PURESIGN 150 luminaire is strikingly elegant, even in the duplex version. Sophisticated enough to win the iF Design Award 2013. Its inside features state-of-the-art LED and lighting technology that provides perfect and extremely uniform backlighting of the pictogram. Rotating ERI spots on the underside ensure that the emergency luminaires can be specifically adjusted to the building's requirements. The new generation of PURESIGN 150 sees the existing product portfolio joined by four new mounting options: wall and ceiling-recessed, surface-mounted with cord suspension and an RSI remote box version.

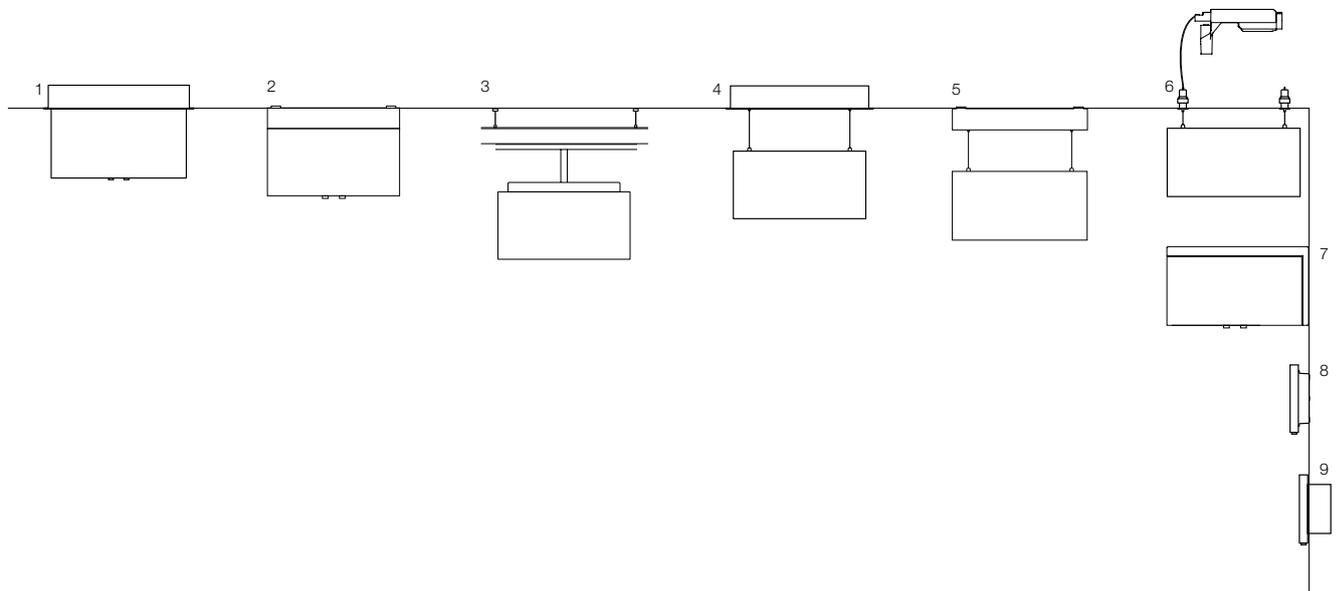
Design | EOOS

IP 42^{*}
30 m

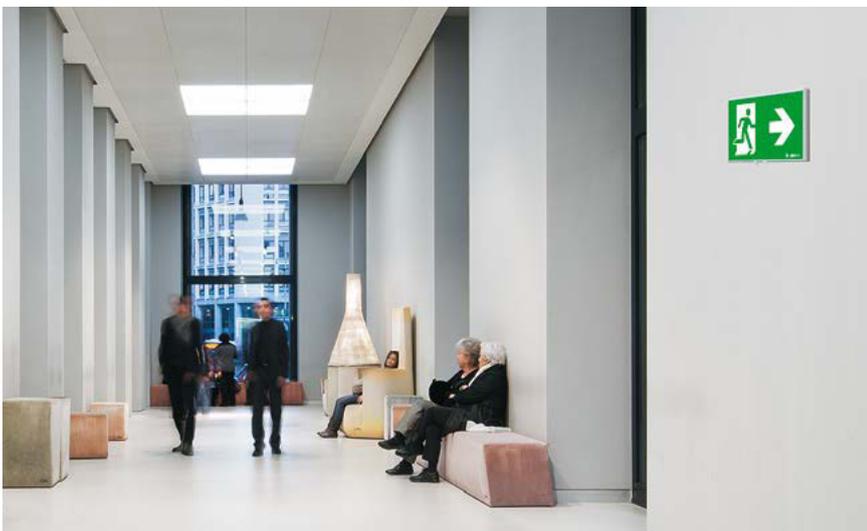
* Surface-mounted on ceiling and wall (90° and 180°)

zumtobel.com/puresign





- 1 Recessed into ceiling** ^d
Ceiling cut-out 330 (±2) x 76 (±2) mm
- 2 Surface-mounted on ceiling** ^{a,c}
Hole spacing 270 mm
Cable feed 28/58 mm*
- 3 TECTON continuous-row system** ^e
Length 602 mm
- 4 ESI cord suspension** ^d
Ceiling cut-out 330 (±2) x 76 (±2) mm
Hole spacing 270 mm
Cable feed 28/58 mm*
- 5 ASI cord suspension** ^b
Hole spacing 270 mm
Cable feed 28/58 mm*
- 6 RSI cord suspension** ^d
Ceiling cut-out Ø 236 mm
Hole spacing 236 mm, Ø 17 mm
- 7 Surface-mounted on wall 90°** ^{a,d}
Hole spacing 28,5 mm
Cable feed above first mounting point
- 8 Surface-mounted on wall 180°** ^{a,c}
Hole spacing 140 mm
Central cable feed
- 9 Recessed into wall** ^d
Wall cut-out 120 (±2) x 220 (±2) mm
- * distance from first mounting point
^a IP42 | ^b IP40 | ^c IP40 ERI | ^d IP40/20 | ^e IP20



Light source	LED > 500 cd/m ² (white)
Installed load	4.5 W (1-sided and 2-sided)
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP42 IP40 IP40/20 IP20
Housing material	Extruded aluminium section
Housing colour	Silver powder-coated
ERI spot	Optional variant*
Dimensions W x H x D	310 x 160 x 20 mm
Recognition range EN 1838	30 m

* ESI, ASI, RSI cord suspension and TECTON continuous-row system only available without ERI spot



ONLITE PURESIGN 150

Technology and innovation



SALEWA headquarters in Bolzano | IT

Architects: Cino Zucchi Architetti and Park Associati, Milan | IT
Electrical consultant: Energytech, P.I. Gabriele Frasnelli, Bolzano | IT
Lighting solution: ONLITE central CPS emergency lighting system, ONLITE RESCLITE emergency luminaires, ONLITE PURESIGN escape sign luminaires, IBLA special office luminaires, MELLOW LIGHT IV recessed luminaires, SLOTLIGHT II light lines, TECTON Slimline continuous-row lighting system, LINARIA batten luminaires, PERLUCE recessed luminaires, LIVIANO spotlights, ONDARIA circular luminaires

Innovative light guide panel

Light distribution in the PURESIGN 150 is adjusted by a light guide panel. A special laser engraving distributes the light uniformly across the complete luminaire to achieve perfectly illuminated pictograms. Stringent use of materials and environment-friendly powder coating characterise the start of the sustainable life cycle of this luminaire. Energy consumption that has yet again been reduced and IP42 protection round off the economy program. With the high level of economic efficiency, durability and application diversity have simultaneously increased.

Temperature range

	Maintained mode	Non-maintained mode
NT1, NT3	+5 °C to +30 °C	+5 °C to +40 °C
NDA, NSI	-20 °C to +40 °C	-20 °C to +40 °C
NPS	-5 °C to +40 °C	-5 °C to +40 °C

Efficient and uniform

Specifically developed for PURESIGN 150, a new and further optimised laser structure equips the light guide panel with special capabilities. Perfectly uniform illumination is ensured while the luminaire's energy efficiency is enhanced.

Well supplied in emergencies

Produced without heavy metals, the NiMH battery is exceedingly environment-friendly. PURESIGN 150 models are available with backup times of one hour (NT1) or three hours (NT3). The battery is recharged after 10 hours (2 Ah) or 15 hours (4 Ah).

Well thought-out

With the mechanical address switch and the supplied pin, electricians can carry out simple addressing during installation and then individually configure the luminaire. The control unit also features the unique Maintenance function that compensates for age-related reduction of lumen output of the LEDs over their service life.

Good protection as standard

PURESIGN 150 is available with IP42 protection. The luminaire is thus optimally protected against dust and drip water at inclinations up to 15°. This means the luminaire is suitable for a wide variety of applications, even in adverse ambient conditions.





Sustainable product design
 Digital printing and environmentally friendly powder coating for the high-quality aluminium frame is the result of manufacturing that protects resources. The rugged aluminium frame of PURESIGN 150 not only protects the luminaire but also gives it a sophisticated appearance.

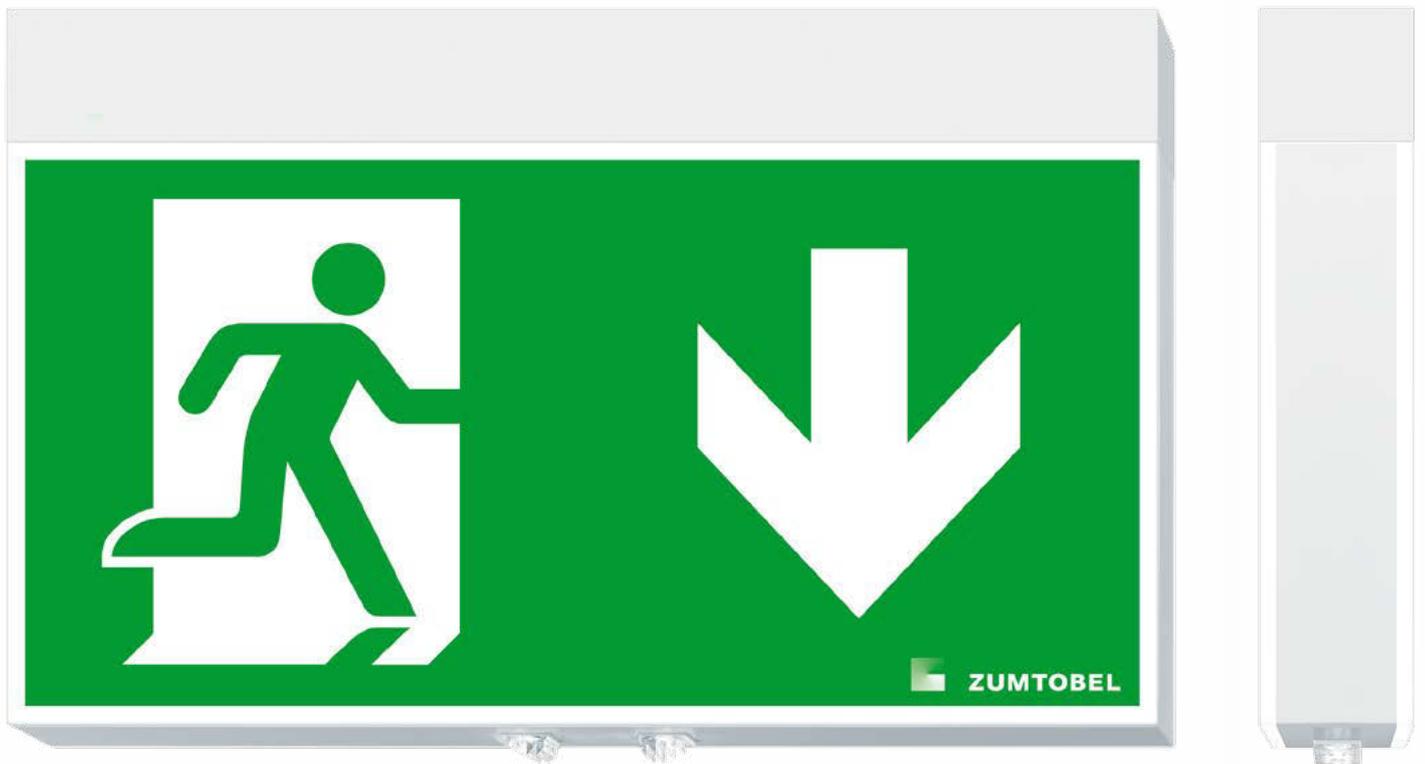
Efficient and durable
 Subdivided into 4 segments each with 6 diodes, 24 LEDs illuminate the PURESIGN 150 from below. The 24 light points consume merely 4.5 W of energy in total. With the Maintenance function with subsequent current feed, luminous flux remains constant over the complete 50000 hour service life. More light is available in emergency situations compared to other escape sign luminaires on the market, which in turn significantly increases safety.

Dual function
 The ERI (Escape Route Illumination) spot is an energy-efficient LED spot combined with a patented lens. The two spots provide part of the emergency lighting, which means the number of emergency luminaires required can be reduced. See further details on page 62.

PURESIGN 150 wall-recessed
 Shown in original size



ONLITE CROSSIGN 110 and 160



Multi-talented for every application

Equipped with the latest LED technology, the CROSSIGN all-rounder steps into a highly efficient future. Power consumption of just 3 W in the standard version and efficiency of over 100 lm/W reduce the energy consumption of this sustainable luminaire, while the specially developed PMMA lens distributes the light uniformly across the entire pictogram. With numerous installation options, two recognition ranges and extremely easy installation, the cost-effective LED luminaire boasts application-orientated versatility. Two optional rotating ERI lenses at the bottom turn the escape sign luminaire into an emergency luminaire as well.

Design | EOOS

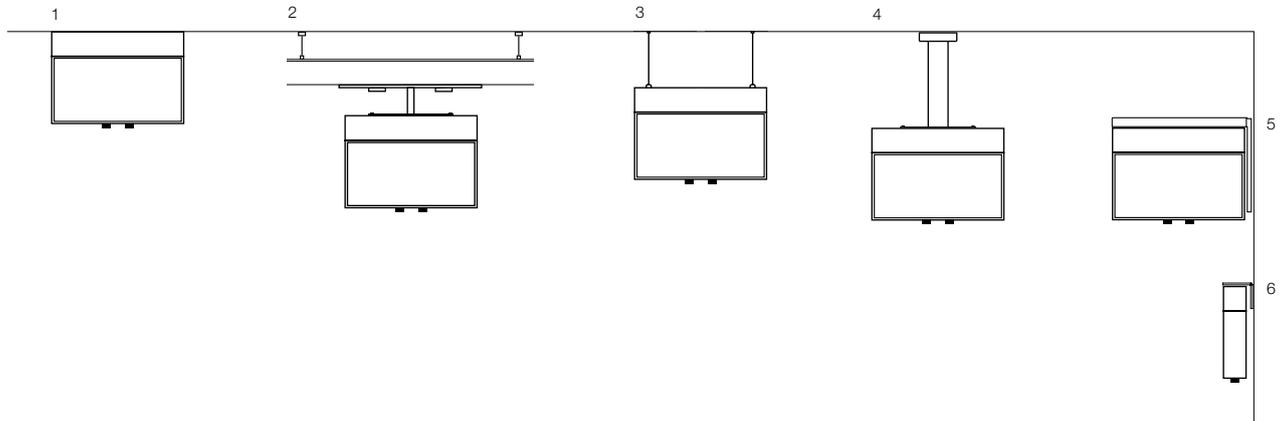
IP 42

22 m

IP 42

IP 54

32 m



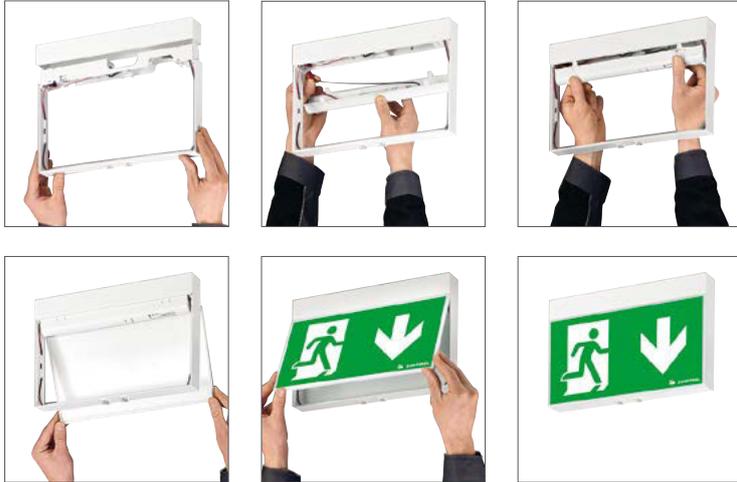
- 1 Surface-mounted on ceiling**
 Hole spacing 180 mm*
 Hole spacing 280 mm**
 First cable feed central
 Second cable feed at 32 mm distance from centre
- 2 TECTON continuous-row system**
 Length 300 mm
- 3 ASI cord suspension**
 Hole spacing 180 mm*
 Hole spacing 280 mm**
- 4 Pendant suspension**
 Hole spacing 73.5 mm
 Central cable feed
- 5 Surface-mounted on wall 90°**
 Hole spacing 130 mm*
 Hole spacing 160 mm**
 Cable feed from above
- 6 Surface-mounted on wall 180°**
 Hole spacing 125 mm
 Central cable feed
- * CROSSIGN 110
 **CROSSIGN 160



	110	160
Light source	LED > 500 cd/m ² (white)	LED > 500 cd/m ² (white)
Installed load	5 W	6 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)	
Protection type	IP42	IP42 IP54
Housing material	Polycarbonate (PC)	
Housing colour	White RAL 9016	
ERI spot	Optional version	
Dimensions		
W x H x D (mm)	232 x 175.6 x 46	332 x 209.6 x 44
Recognition range		
EN 1838	22 m	32 m

ONLITE CROSSIGN 110 and 160

Technology and innovation



Easy no-tool installation: the luminaire is mounted with just a few clicks.

Innovative lens

A newly developed and specially curved lens uniformly guides the light of the LED string upwards via the pictogram. Application-oriented versatility is achieved by a wide range of mounting and supply options, unrivalled ease of installation and two recognition ranges.

Temperature range

	Maintained mode	Standby mode
CROSSIGN 110*		
NT1, NT3	+5 °C to +30 °C	+5 °C to +35 °C
NDA, NSI	-20 °C to +40 °C	-20 °C to +45 °C
NPS	-5 °C to +40 °C	-5 °C to +40 °C
CROSSIGN 160		
NT1, NT3	+5 °C to +30 °C	+5 °C to +35 °C
NDA, NSI	-20 °C to +35 °C	-20 °C to +40 °C
NPS	-5 °C to +35 °C	-5 °C to +40 °C

* Non-compliant with the VKF (Switzerland)



Side cable feed

In addition to standard cable feed from above, the power supply cable can also be routed from the side. This significantly simplifies installation in many cases.

Good protection as standard

CROSSIGN 110 and 160 are available with IP42 protection for optimum protection against dust and drip water with an inclination of up to 15°. CROSSIGN 160 is also available with IP50 protection for protection against dust in hazardous quantities as well as spray water from all sides. This makes CROSSIGN 110 and 160 the perfect luminaires for applications such as industrial bays and car parks.

Efficient and durable

Subdivided into 3 segments each with 6 diodes, 18 LEDs illuminate the CROSSIGN 110 cavity. The CROSSIGN 160 has 24 LEDs subdivided into 4 segments and each with 6 diodes that illuminate the escape sign from below. The 18 light points of the CROSSIGN 110 consume merely 5 W, and the 24 light points of the CROSSIGN 160 need only 6 W of energy. With the Maintenance function with subsequent current feed, luminous flux remains constant over the complete 50 000 hour service life. More light is available in emergency situations compared to other escape sign luminaires on the market, which in turn significantly increases safety.



No-tool installation

Pictograms are simply snapped onto the luminaire. The way back is just as simple: to replace the battery for example, the pictogram is simply released from the housing using a standard screwdriver.

Uniform illumination

A special lens was developed for CROSSIGN 110 and 160 that optimally distributes the light of the LEDs and that combines several simultaneous functions: lighting is optimised to uniformly illuminate the pictogram. Light directed at the pictogram saves a maximum of energy. When replacing the pictogram, the lens supplies mechanical and electrostatic discharge protection for the LED strip. The PPMA material used for the lens significantly reduces absorption of light compared to standard PC material.

Dual function

The ERI (Escape Route Illumination) spot is an energy-efficient LED spot combined with a patented lens. The two spots provide part of the emergency lighting, which means the number of emergency luminaires required can be reduced. See further details on page 62.

CROSSIGN 160 Surface-mounted on ceiling
Shown in original size



ONLITE ECOSIGN



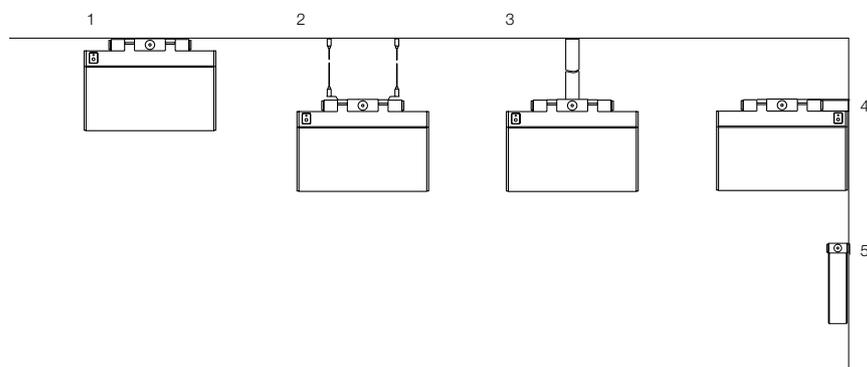
The highly flexible all-rounder

The all-rounder in the ONLITE range combines all practical qualities in one luminaire. Whether in industrial bays or protected outdoor areas – thanks to its high protection rating, ECOSIGN is well-prepared for use in every application. With a recognition range of 32 m and a variety of installation options, it is flexible in every way. No tools are required for maintenance.

Design | Matteo Thun

IP 65

32 m



- 1 Surface-mounted on ceiling**
Hole spacing 104 mm
Central cable feed
- 2 ASI cord suspension**
Hole spacing 180 mm
- 3 Pendant suspension**
Hole spacing 52 mm
Central cable feed
- 4 Surface-mounted on wall 90°**
Hole spacing 26 mm
Cable feed 18 mm below
mounting points, Ø 22 mm
- 5 Surface-mounted on wall 180°**
Hole spacing 55 mm
Central cable feed



Light source	LED > 500 cd/m ² (white)
Installed load	6 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP65
Housing material	Polycarbonate (PC)
Housing colour	White RAL 9016
Dimensions W x H x D	335 x 238 x 55 mm
Recognition range EN 1838	32 m

ONLITE ERGOSIGN

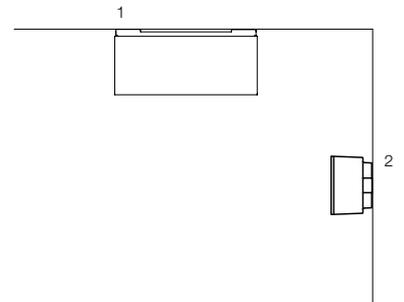


Frameless escape sign luminaire

The classic among escape sign luminaires is now available in the new LED design. The volume of the ERGOSIGN surface-mounted luminaire has been reduced by two thirds compared to the previous model, with the recognition range remaining the same. It is therefore particularly frequently installed above escape doors. Its compact design combined with increased protection of IP54, a recognition range of 16 metres, easy installation and an attractive price make ERGOSIGN a perfect all-rounder.

Design | EOOS

IP 54
16 m



- 1 Surface-mounted on ceiling**
 Hole spacing 150 mm
 Central cable feed
- 2 Surface-mounted on wall 180°**
 Hole spacing 100 mm
 Central cable feed



Light source	LED > 500 cd/m ² (white)
Installed load	3 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP54
Housing material	Die-cast aluminium (surface-mounted) Sheet steel (recessed)
Housing colour	White RAL 9016
Dimensions	
W x H x D	201 x 87 x 61 mm
Recognition range	
EN 1838	16 m



ONLITE CUBESIGN 210 and 450



Escape sign cube for large-scale marking of escape routes

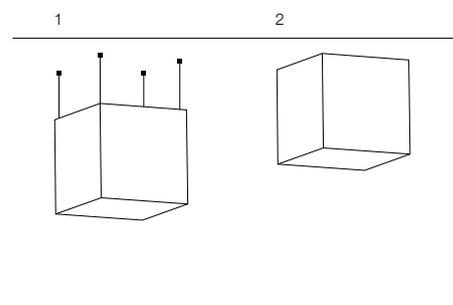
With pictographs printed on three sides, the cube-shaped CUBESIGN 210 and 450 escape sign luminaires are the perfect solution for high halls and rooms. The large cube with a side length of 450 mm is fitted with a 27 W compact fluorescent lamp and boasts a recognition range of 90 m. The smaller cube with a recognition range of 42 m makes use of the benefits of modern LED technology, ensuring a long service life and energy-efficient operation with 100 % light output immediately after switching on.

IP 40

IP 40

42 m

90 m



- 1** ASI cord suspension
Hole spacing 192 mm*
Hole spacing 400 mm**
- 2** Surface-mounted on ceiling
Hole spacing 192 mm*
Hole spacing 400 mm**
Cable feed 35/68 mm*
Cable feed 17.5 mm**
distance from centre
- * CUBESIGN 210
**CUBESIGN 450



	210	450
Light source	LED > 500 cd/m ² (white)	TC-DEL
Installed load	11.5 W	27 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS* (no communication, central)	
Protection type	IP40	
Housing material	Opal plastic (luminaire cube) Metal (basic unit)	
Housing colour	White RAL 9016	
Dimensions W x H x D (mm)	250 x 250 x 250	500 x 500 x 500
Recognition range EN 1838	42 m	90 m

* only with CUBESIGN 210

ONLITE SQUARESIGN 300 and 600



A giant in terms of safety and design

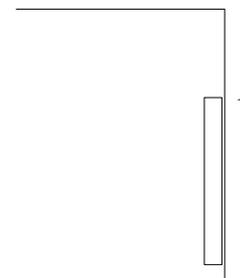
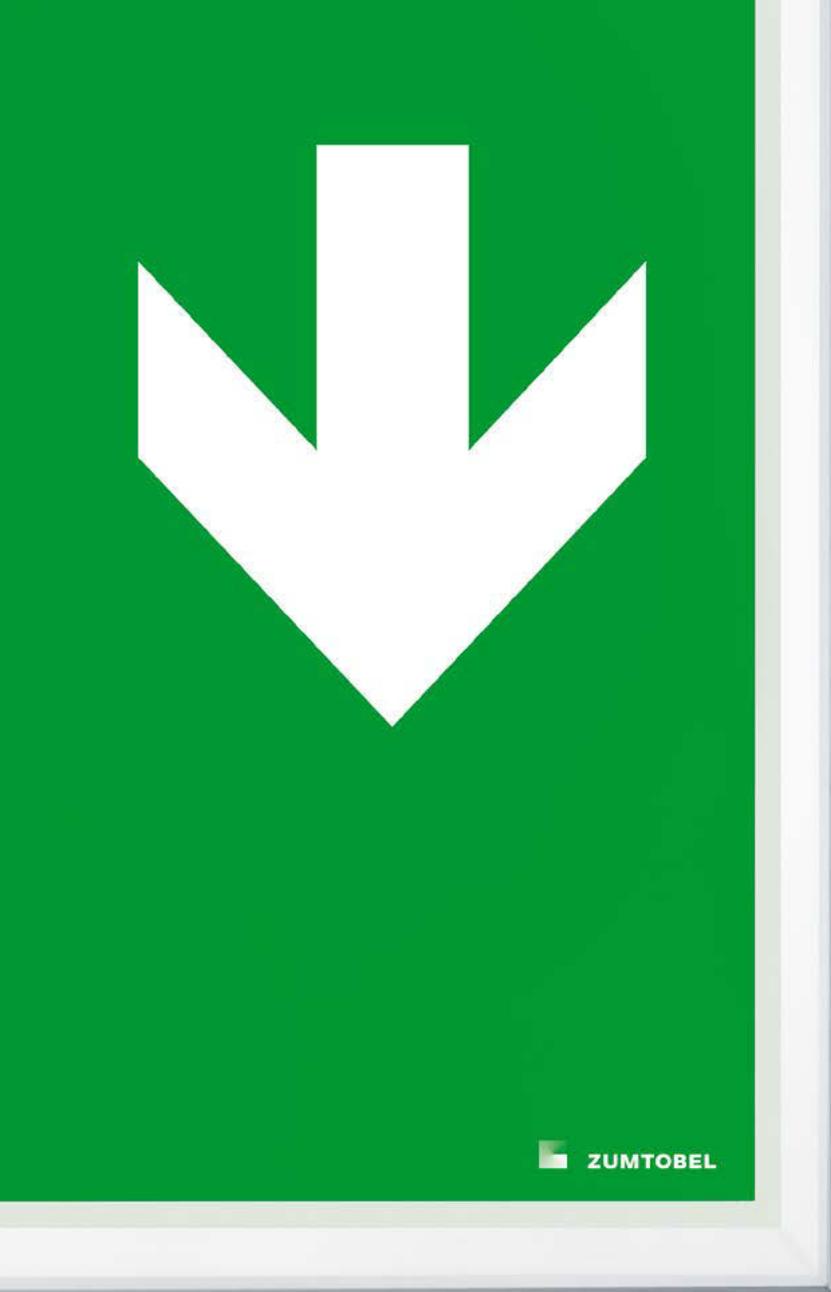
Featuring extra IP54 protection, SQUARESIGN 300 and 600 count among the most rugged of large-format emergency luminaires. The luminaire's high-quality inner workings are well protected against soiling and the ingress of water; only little effort is needed for cleaning and maintenance of the escape sign luminaire. Special applications include bays, shopping centres, transit areas and underground car parks. While the 300 mm model with lateral high-power LEDs provides a recognition range of 60 metres, the 600 mm wide design with T16 fluorescent lamps achieves a recognition range of 120 metres.

IP 54

IP 54

60 m

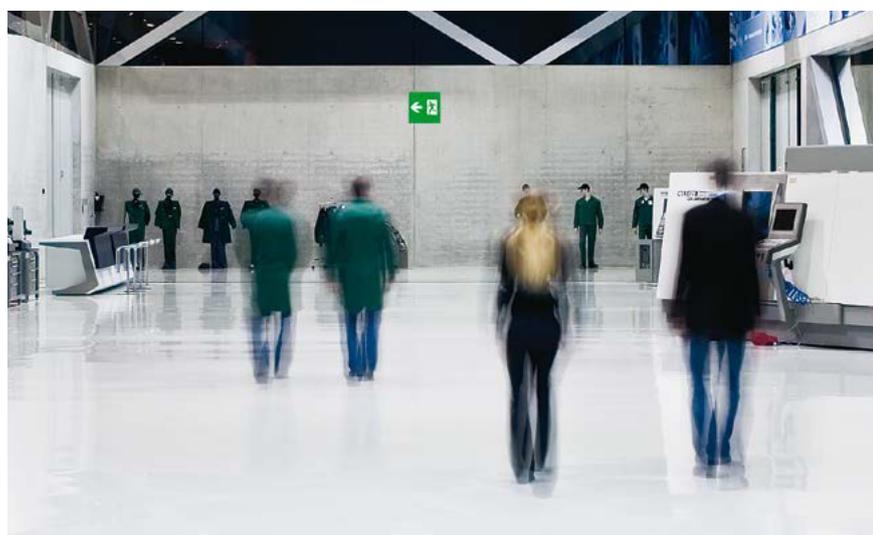
120 m



1 Surface-mounted on wall 180°
 Hole spacing 220 mm*
 Hole spacing 440 mm**
 Cable feed 2 x along the axis
 of the left mounting points
 16 mm distance from centre*
 18 mm distance from centre**

* SQUARESIGN 300

** SQUARESIGN 600



	300	600
Light source	LED > 500 cd/m ² (white)	T16 4 x 14 W
Installed load	7 W	67 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central)	
Protection type	IP54	
Housing material	Sheet steel	
Housing colour	White RAL 9016	
Dimensions		
W x H x D (mm)	310 x 310 x 90	620 x 620 x 90
Recognition range		
EN 1838	60 m	120 m

ONLITE escape sign luminaires

Product overview

ED
Ceiling-recessed

AD
Surface-mounted
on ceiling

TEC
TECTON continuous-row
system

ESI
Ceiling-recessed, cord

ARTSIGN

IP40
15 m | non-compliant with VKF (Switzerland)
3.2 W



COMSIGN 150

IP42
30 m
4.5 W



PURESIGN 150

IP42
30 m
4.5 W



CROSSIGN 110

IP42
22 m | non-compliant with VKF (Switzerland)
5 W



CROSSIGN 160

IP54
32 m
6 W



ECOSIGN

IP65
32 m
7 W



ERGO SIGN

IP54
16 m | non-compliant with VKF (Switzerland)
3 W



CUBESIGN 210

IP40
42 m
11.5 W



CUBESIGN 450

IP40
90 m
27 W



SQUARESIGN 300

IP54
60 m
7 W

SQUARESIGN 600

IP54
120 m
67 W



ASI
Surface-mounted
on ceiling, cord

RSI
Remote box ceiling

API
Pendant suspension

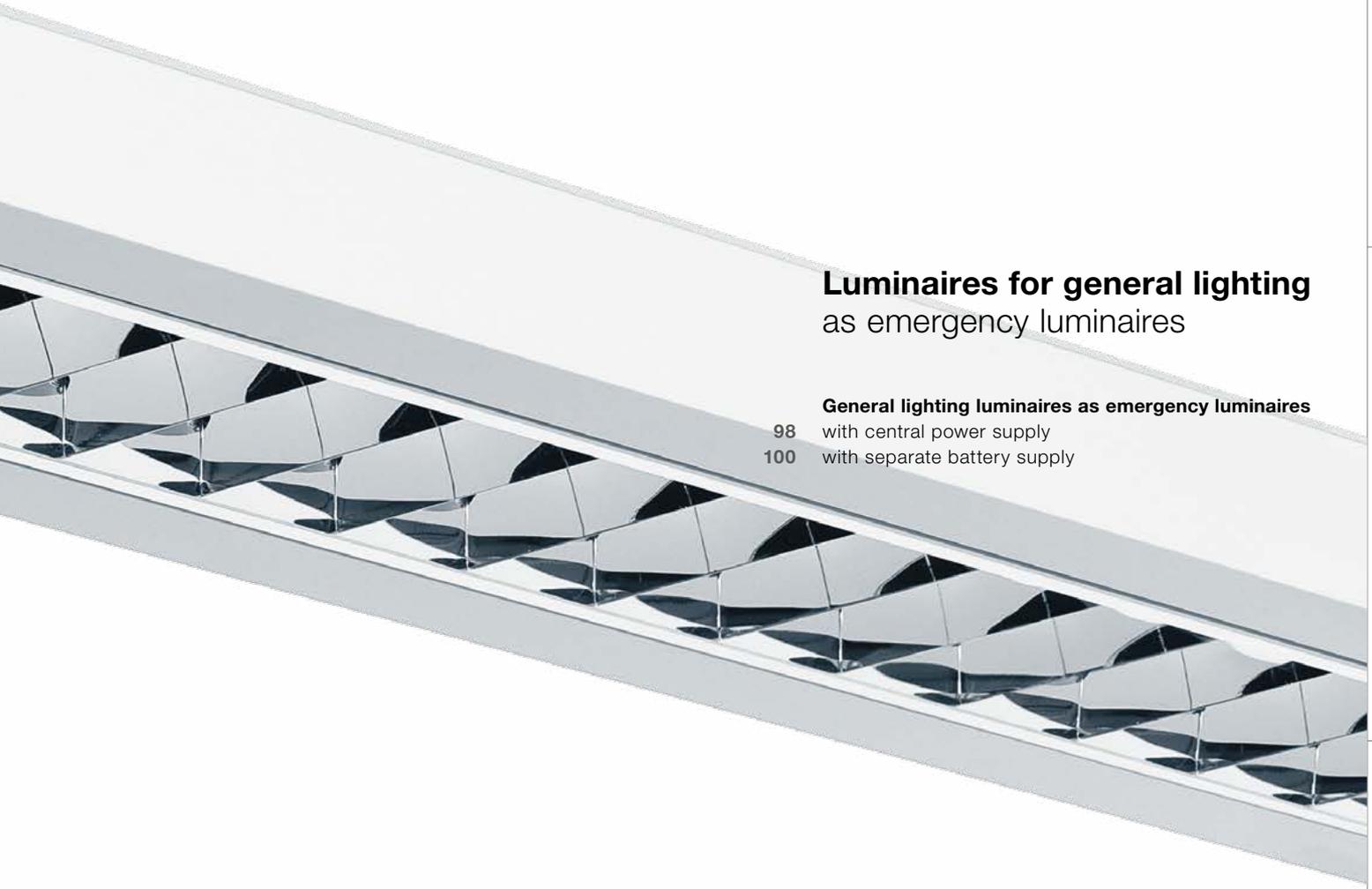
EW
Wall-recessed

AW
Surface-mounted
on wall 180°

AW
Surface-mounted
on wall 90°



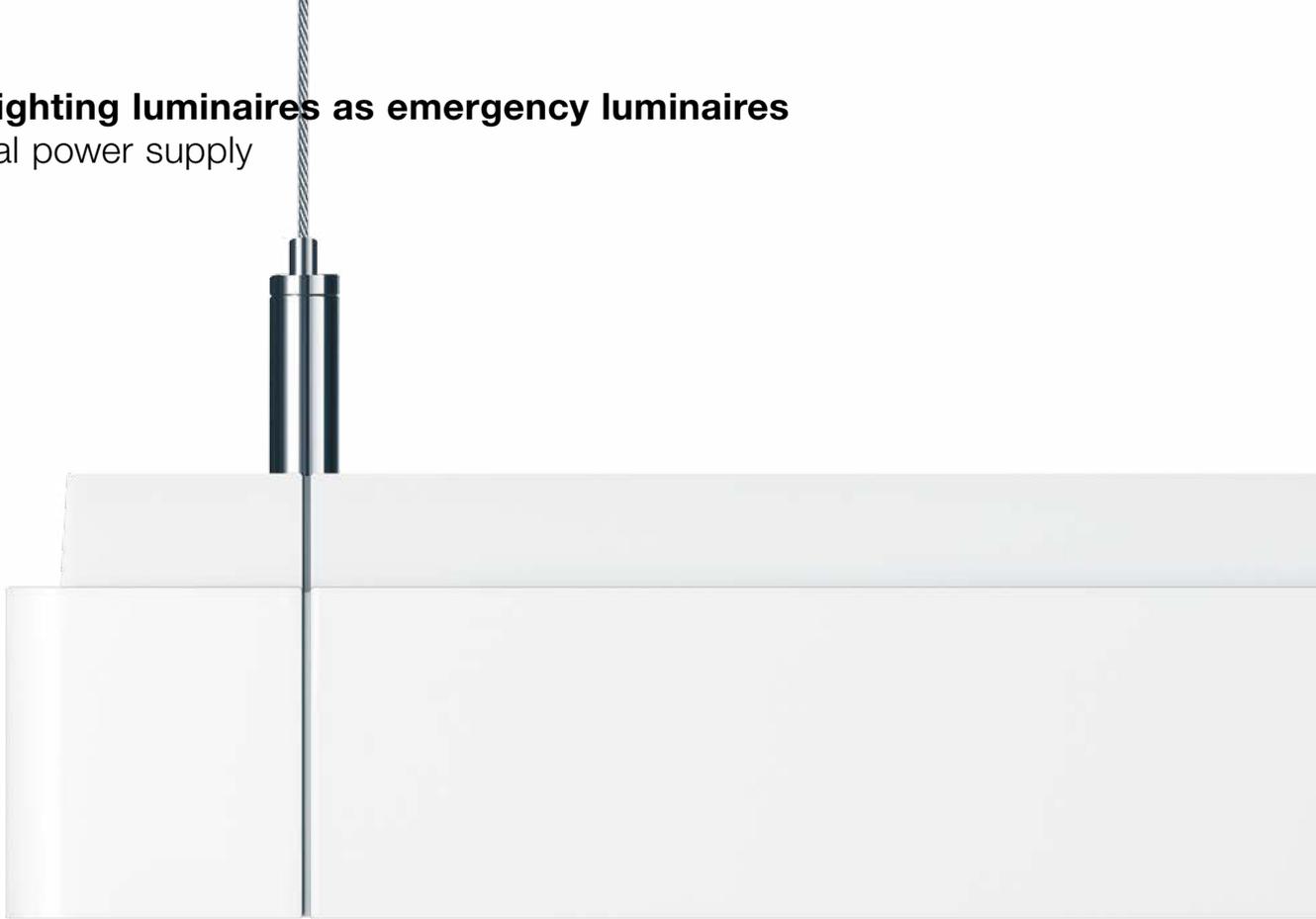




Luminaires for general lighting
as emergency luminaires

- General lighting luminaires as emergency luminaires**
- 98 with central power supply
 - 100 with separate battery supply

General lighting luminaires as emergency luminaires with central power supply



General lighting luminaires turned into emergency luminaires with one click

Nearly all Zumtobel general lighting luminaires are also available as emergency luminaires. This integration of emergency lighting into general lighting is mainly specified when higher illuminance levels are required, or when the emergency lighting should be completely concealed due to aesthetic reasons. The Product Configurator enables simple and technically correct ordering of general lighting luminaires with an emergency lighting function. If you have any questions, please feel free to contact your Zumtobel sales employee. Zumtobel also offers ready-to-use luminaires for emergency lighting with central battery supply. Compliance to standards is guaranteed here in contrast to luminaires converted by the operator.

LDE luminaires for central battery supply

Luminaires with LDE in their article designation are suitable for supply via central battery systems and can be dimmed via DALI and DSI. LDE luminaires also have a built-in SwitchDim function. Installations with one or two luminaires can thus be dimmed directly via simple momentary-action switches.

Assured range of functions

- Adjustable DC emergency lighting level (supply condition specified on data sheet)
- DALI
- DSI
- switchDIM



LDO luminaires for central battery supply

General lighting luminaires with the article designation LDO (formerly LDE DO) are dimmable via DALI. DC voltage operation and use in emergency lighting systems is not possible or possible to a limited extent, depending on the luminaire.

Assured range of functions

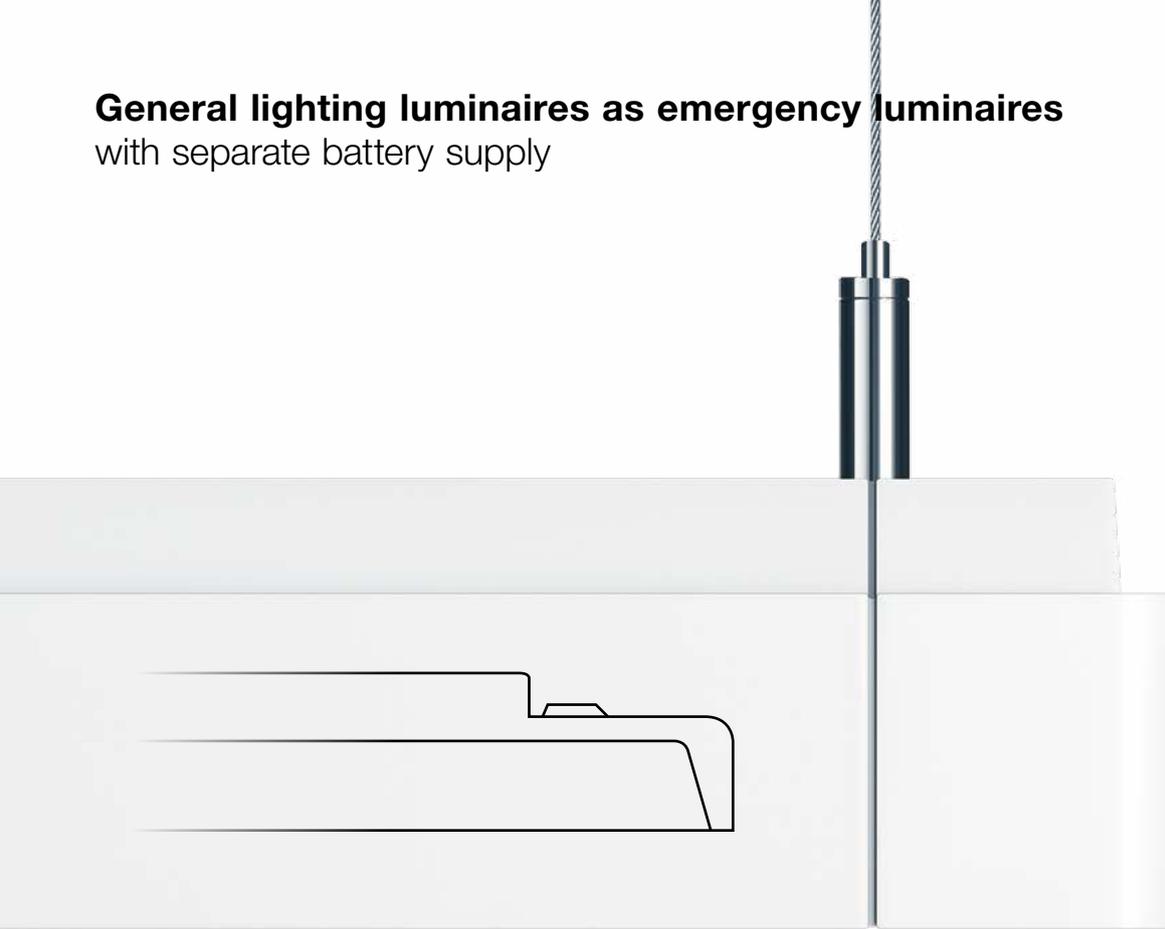
- DALI
- Not DC-compatible or only with limited compatibility

PCL DALI Interface control unit for central battery supply

This emergency lighting control unit enables general lighting luminaires that were previously unsuitable for emergency lighting to be integrated into central battery systems and used as regular luminaires for emergency situations.



General lighting luminaires as emergency luminaires with separate battery supply



Zumtobel supplies ready-to-use luminaires with separate battery supply (emergency sets) for emergency lighting integrated into general lighting systems. Compliance to standards is guaranteed here compared to luminaires converted by the operator. The emergency sets are connected via DALI and an ONLITE local SB 128 controller.

ONLITE local emergency sets for separate battery supply

The emergency lighting sets for general lighting consist of an emergency lighting control unit and a battery. In contrast to the RESCLITE emergency set, the light source of the general lighting luminaire is used here for emergency lighting. The ONLITE local emergency sets are available for backup times of one or three hours.

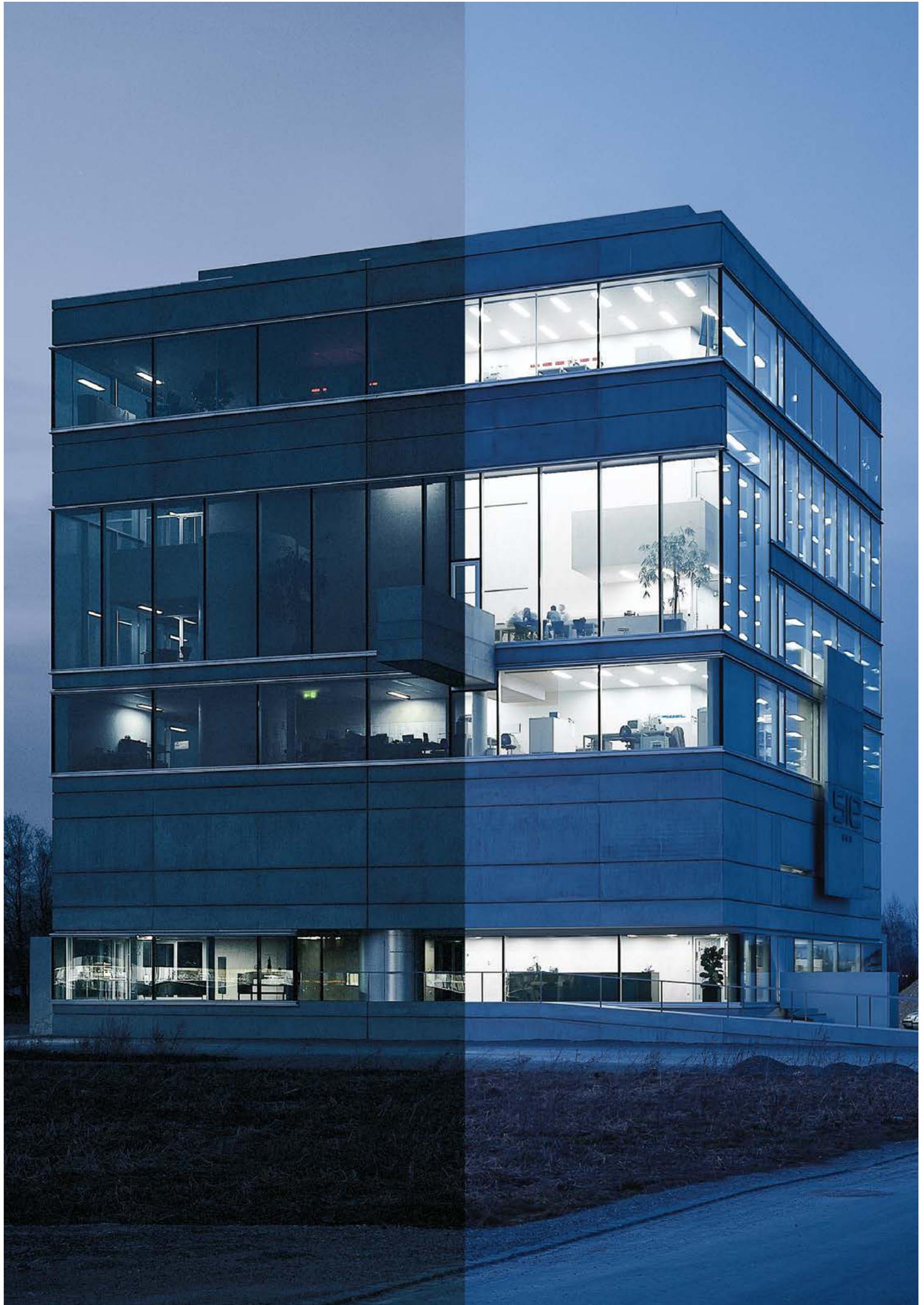


Overview ONLITE local emergency sets

1 / 3 h Standard BLF				
Art. Nr. NT1	22169257 NT1-TR 14 (2+2)	22169256 NT1-TR 15 (3+2)	22169258 NT1-TR 16 (3+3)	
Art. Nr. NT3	22169259 NT3-TR 34 (2+2)	22169260 NT3-TR 35 (2+3)	22169261 NT3-TR 36 (3+3)	
Lamp	Wattage	BLF in emergency lighting mode in % for rated service life		
	6 W			
	8 W	40,0		
	13 W			
	13 W	22,0		
	20 W	15,4		
	25 W		16,8	
	32 W		13,4	
	45 W		8,1	
	50 W		5,8	
	73 W	15,4	4,1	
	14 W	24,0		
	21 W		18,0	
	28 W		15,0	
	35 W		11,0	
	24 W	15,6		
	39 W		10,0	
	49 W		6,7	
	54 W		5,3	
	80 W		4,2	
	15 W	17,0		
	18 W	18,0		
	30 W			
	36 W	11,0		
	38 W			
	58 W		7,5	
	70 W			4,5
	10 W			
	16 W	23,6		
	21 W	15,4		
	28 W	13,7		
	38 W			10,3
	55 W			5,9
7 W				
	9 W	27,6		
	11 W	31,0		
	10 W			
	13 W	25,6		
	18 W	17,0		
	26 W	14,4		
	13 W	25,2 / 17,1		
	18 W	17,5 / 14,1	17,8 / 21,0	
	26 W ²	11,5 / 10,0	13,0	14,0
	32 W ²		14,0 / 5,6	x / 8,0
	42 W			7,4 / 7,3
	57 W			
	22 W	16,9		
	40 W		7,4	
	55 W		5,1	
	18 W	18,0		
	24 W		21,0	
	36 W		13,0	
	18 W	17,4		
	24 W		17,0	
	36 W		12,0	
	40 W		8,8	
	55 W			5,4
	40 W	20,0		
	55 W	15,0		

¹ The first figure refers to non-amalgam lamps, the second figure to amalgam lamps (e.g. 14 / 9.5)

² For optimum operation of 26 W and 32 W TC lamps, in particular for lamps with an amalgam filling, we recommend the use of EM 06 PRO G2 respectively.



ONLITE

Emergency lighting systems

109 ONLITE local



126 ONLITE central eBox



162 ONLITE central CPS



Help you can rely on in an emergency

Emergency lighting system matched to the building's size and use

ONLITE local

Self contained battery supply

- NT1** Internal battery for 1-hour power supply*
- NT3** Internal battery for 3-hour power supply*

* Communication possible via DALI

ONLITE central eBox

Central-battery supply

- NSI** Central battery and communication via Powerline
- NDA** Central battery and communication via DALI
- NPS** Central battery, no communication

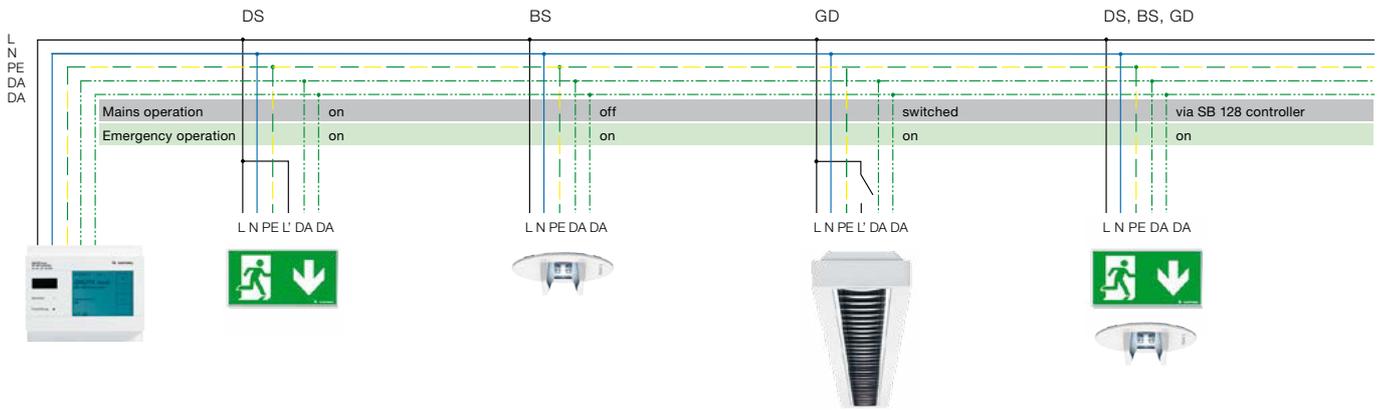
ONLITE central CPS

Central-battery supply

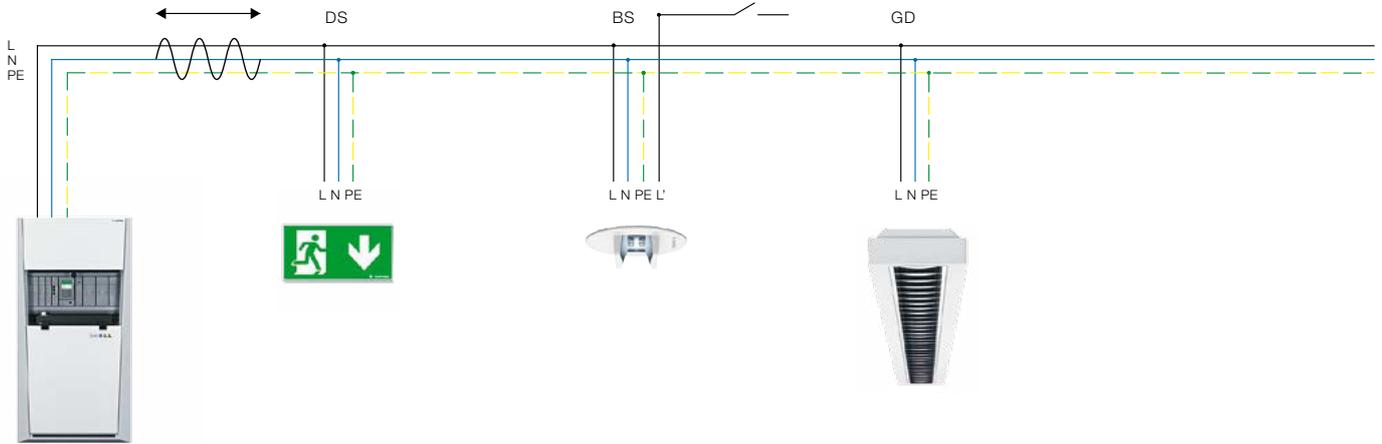
- NDA** Central battery and communication via DALI
- NPS** Central battery, no communication



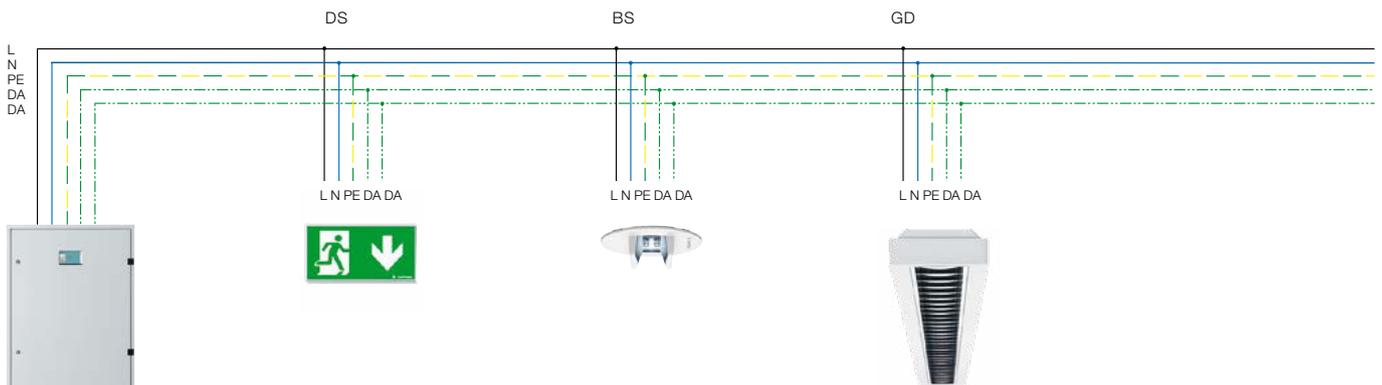
Supply by separate battery and ballast (NTx)



Supply and monitoring by means of eBox and Powerline (NSI)



Supply and monitoring by means of CPS and DALI (NDA)



- DS Maintained mode
- BS Non-maintained mode
- GD Switched maintained light



ONLITE systems

Compatibility and supply matrix

The appropriate monitoring and supply system



General luminaires as emergency luminaires

LDE	–	– ¹	○ ²	●	●
LDE TW	–	– ¹	○ ²	●	○ ⁴
LDO	–	–	○ ^{2,3}	○ ³	●

Escape sign and emergency luminaires

NTx	●	●	–	–	● ⁵
NDA	–	– ¹	●	●	● ⁶
NPS	–	–	● ²	● ²	○ ⁷
NSI	–	–	●	–	○ ⁸

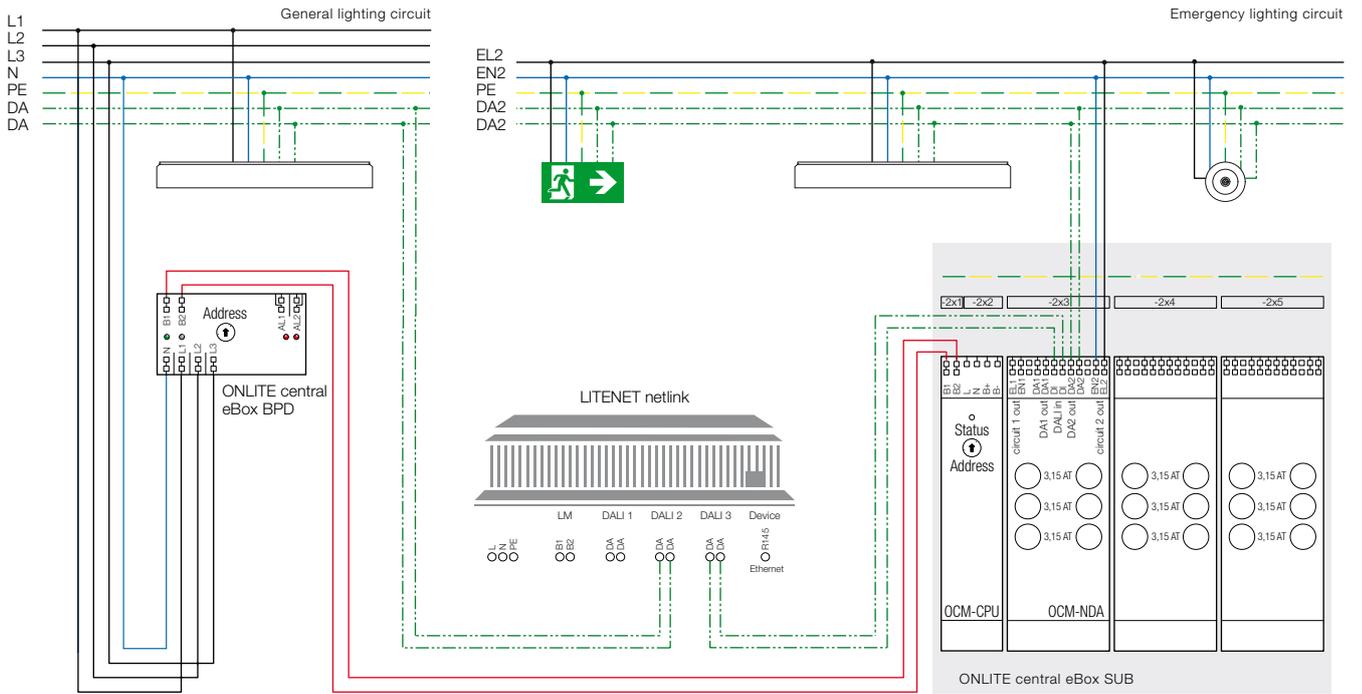
- fully compatible, therefore fully functional
- not fully compatible, but functional
- not compatible, does not work

- ¹ Only with compatible converters and separate NT1 or NT3 battery
- ² Circuit monitoring only; mixed operation with separate-battery and circuit monitoring is not possible via a controller
- ³ Dimming not permitted in DC mode
- ⁴ Only possible with Tunable White luminaires controlled according to DALI DT8 / 2010
- ⁵ With LUXMATE LITENET only
- ⁶ Can be used with LUXMATE LITENET combined with a CPS, if DC level is set at luminaires
- ⁷ ONLITE central CPS or ONLITE central eBox central supply
- ⁸ ONLITE central eBox central supply

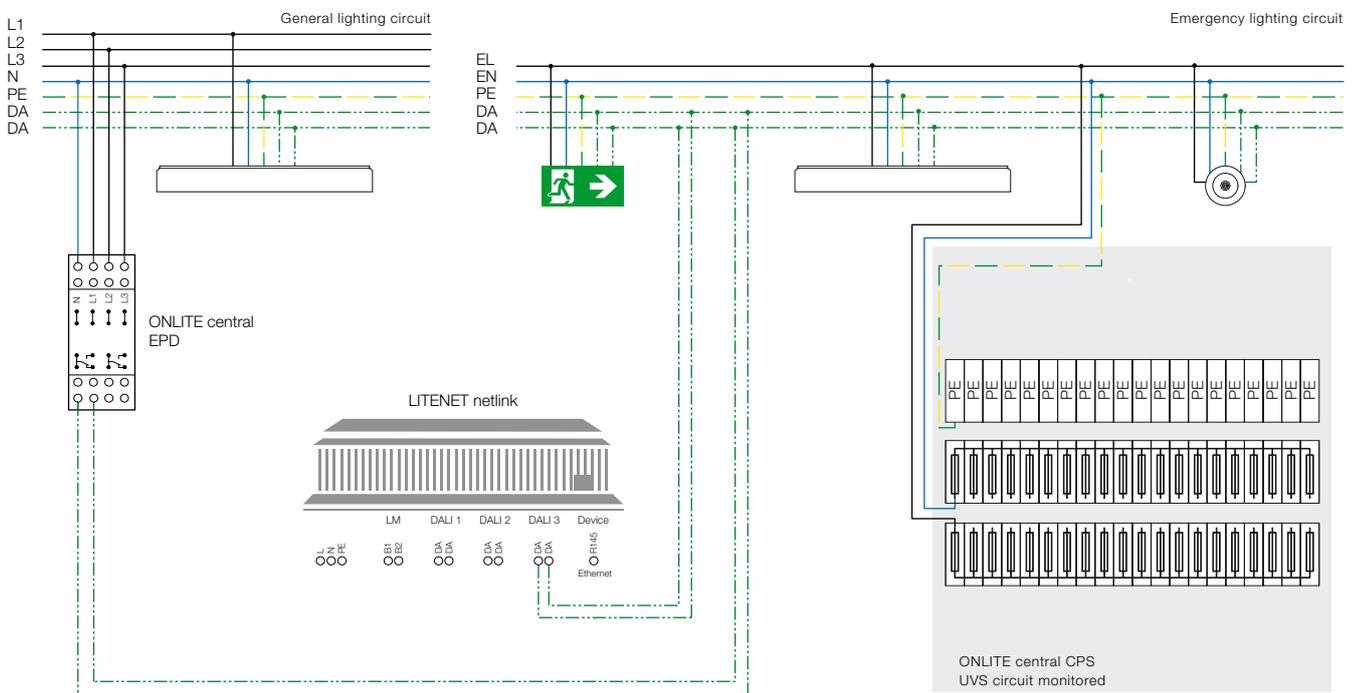
The appropriate ONLITE emergency lighting system for addressing, configuration and testing of proper operation is available for each luminaire. The monitoring and supply systems can also be combined with Zumtobel lighting control systems. This makes management easier: emergency luminaires can be configured more quickly, and the whole system is displayed at a central location where the supply systems are also installed and monitored.



Wiring scheme: ONLITE central eBox NDA with LITENET netlink



Wiring scheme: circuit-monitored ONLITE central CPS with LITENET netlink



ONLITE local
SB 128 Controller
Art.-Nr.: 22 156 829

 **ZUMTOBEL**



Mains/Netz 

Failure/Störung 

Thu, 03.04.2013 10:58

ONLITE local
SB 128 Controller

Last test result:
OK



>
<
info
?

Original size

ONLITE local

Self contained emergency lighting system

ONLITE local

- 106 Self contained emergency lighting system
- 108 Auto Test and Control Test in comparison

Auto Test

- 110 Escape sign and emergency luminaires with automated test cycles

SB 128 Controller

- 112 Monitors, displays and logs

Control Test

- 114 Central monitoring of emergency lighting using SB 128 Controller
- 116 Installation and commissioning

Control Test system topology

- 118 System overview
- 120 Modes



ONLITE local

Self contained emergency lighting system

Self contained emergency lighting systems have one feature in common - the battery fitted into every luminaire. In emergency mode, this supplies the light source with power in order to prevent panic reactions, ensure the workplace is evacuated safely and show the escape route. Economic efficiency and a high level of safety are both factors in favour of a self contained system. This system is the ideal solution for small and medium-sized buildings in particular.



Plus points of self contained emergency lighting system

- Minimum space required
- Less expenditure on installation
- Safe emergency operation, even in event of local power failures
- No fire-resistant wiring required
- No expensive structural measures required
- Entire system built from standard components

Integrated into general lighting

- Every general luminaire can be an emergency luminaire



Added value of an self contained system

- Continuously monitored systems
- Automatic testing and unambiguous failure notification
- Highest quality level
- Absolute conformity with relevant standards

Cost savings

- Minimal expenditure on testing and maintenance
- Automatic testing of system
- Automatic generation of test logs

ONLITE local

Auto Test and Control Test in comparison

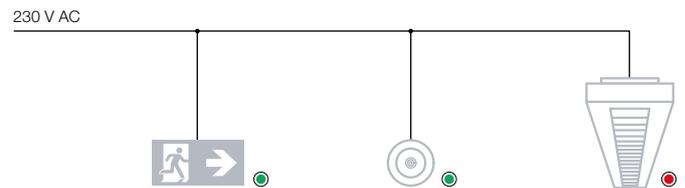


Auto Test

Self contained luminaires with automated test cycles NT luminaires that are not connected to an SB 128 Controller, run the specified annual system tests and function tests automatically. The tests are scheduled on the basis of pre-programmed test cycles. The luminaire's status is indicated by a two-colour LED on the luminaire. Checking the luminaires therefore simply involves noting the luminaire status and keeping a manual test logbook.

Maintenance technician's tasks

Maintenance inspection rounds to note LED status indications. Keep a test logbook (Point in time when tests are performed cannot be influenced).



Cost comparison Auto Test



- No manual triggering of tests
- Maintenance inspection round to note LED status indication
- Keep a test logbook manually



- Easy installation
- No control line



- Replacement of light sources
- Replacement of batteries

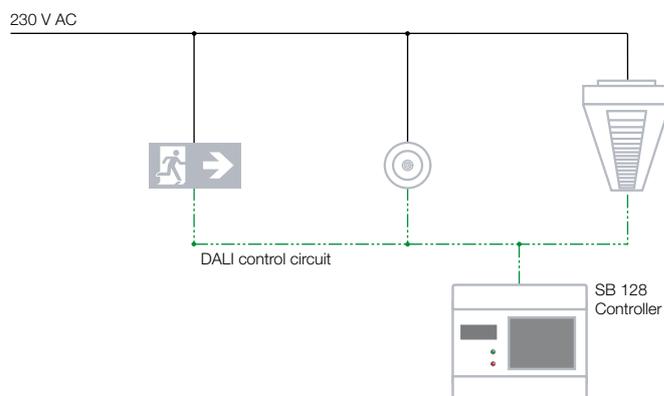


Control Test

Self contained luminaires with central monitoring by SB 128 Controller. If ONLITE Check NT luminaires and NT emergency luminaires are connected to an SB 128 Controller via a DALI control circuit, the Controller handles controlling and monitoring of the entire emergency lighting installation from a central location. The luminaires no longer need to be inspected individually in situ. All failures are notified immediately and stored in an electronic test logbook for at least three years.

Maintenance technician's tasks

A quick look at the controller's emergency lighting system display shows: "Everything OK, all cyclic tests have been run." Failures such as faulty light sources are indicated unambiguously with details of cause and location.



Cost comparison Control Test

Costs of testing

- Automation of tests and test logbook
- Central status display and failure notification

Investment costs

- SB 128 Controller
- Two-lead DALI control line

Costs of maintenance

- Unambiguous indication of defective light sources and batteries
- No troubleshooting thanks to localisation function
- Longer service life of light sources by switching luminaires from maintained mode to non-maintained mode outside working hours

Auto Test

Escape sign and emergency luminaires with automated test cycles

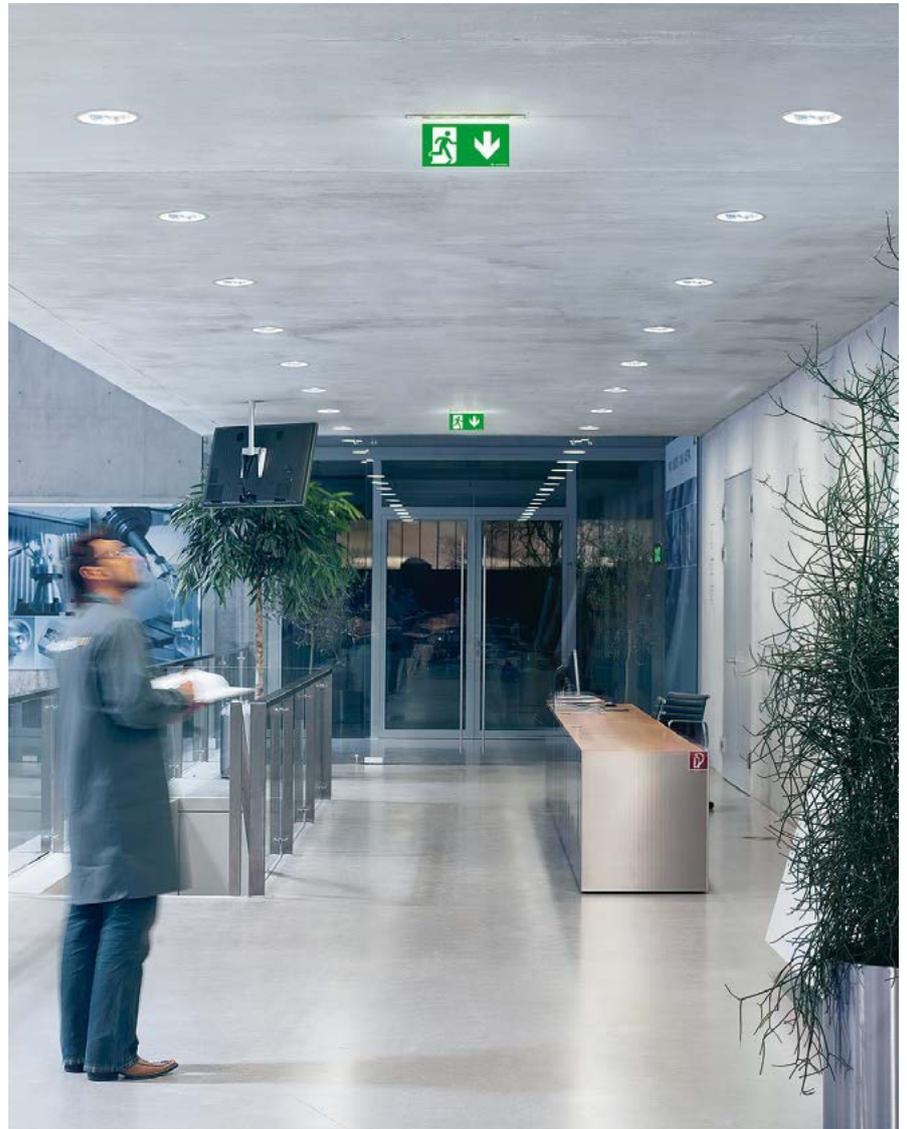
Self contained NT luminaires ensure a high level of safety: they run a weekly function test and an annual system test automatically. This reduces expenditure on testing to a weekly inspection round during which the LED status indication is noted and recorded in the test logbook. If required, testing can still be triggered by using the momentary-action test switch, which has to be ordered separately.

Functions

- Pre-programmed test cycles
- LED status indication
- Selectable mode
- Optional facility to trigger manual testing by momentary-action switch

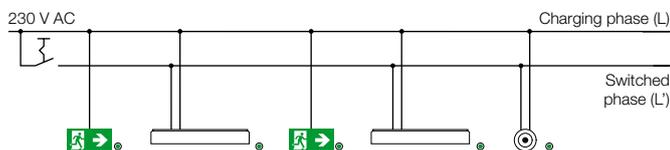
Benefits

- Weekly function tests and annual system tests are run automatically
- Reduced expenditure on testing
- No need to operate momentary-action switches on difficult-to-access luminaires
- Ideal for small installations



NT luminaires not connected to a control line

- Weekly function tests and annual system tests are run automatically
- LED display for luminaire status and battery status
- No awkward and dangerous actuation of test buttons, for example working at great height
- Timer configurations make sure that not all emergency luminaires perform an annual system test simultaneously



Easy installation and commissioning

Installation

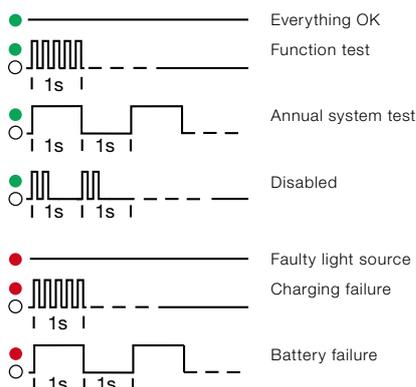
Wiring the escape sign luminaires and emergency luminaires is confined to connection to the mains supply. The luminaire must be connected to an unswitched phase.

General luminaire with emergency lighting unit

General luminaires fitted with an emergency lighting unit retain the general luminaire's full functionality and are wired as usual. Only the emergency lighting unit is connected to an unswitched charging phase.

Automatic test cycles

As soon as the luminaire has been connected to the mains supply, the battery is charged. Once the battery is fully charged, a function test lasting roughly 30 seconds is run automatically. The luminaire then switches back to normal mode. Connection to the mains supply initialises the timer: it starts to count and triggers the function test once a week and the annual system test once a year in accordance with the programmed intervals.



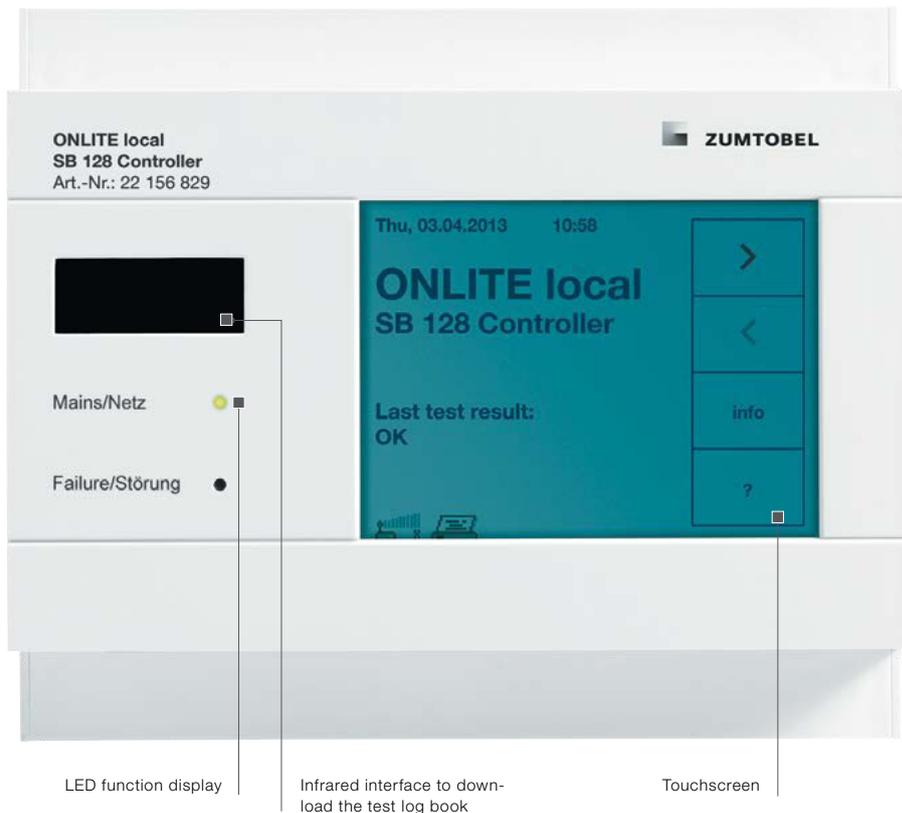
LED status indication

The two-coloured LED provides information concerning the status of the luminaire by simply flashing.



SB 128 Controller

Monitors, displays and logs



Controlling an emergency lighting system is much more convenient and safe if it is networked via a DALI control line and an SB 128 Controller is connected. The status of all the luminaires is displayed on the controller, all notifications such as faulty light sources or battery malfunctions are captured in a central location and logged in the test logbook. In this way, the Controller takes on full responsibility for the emergency lighting system.

Easy operation

- Very easy commissioning and addressing of the entire emergency lighting installation – requires just one person
- Straightforward touch-screen operation
- Clearly laid-out, logical menu prompting
- Can monitor 128 luminaires, can be expanded to take 256 luminaires by fitting extenders

Automatic tests and test logs

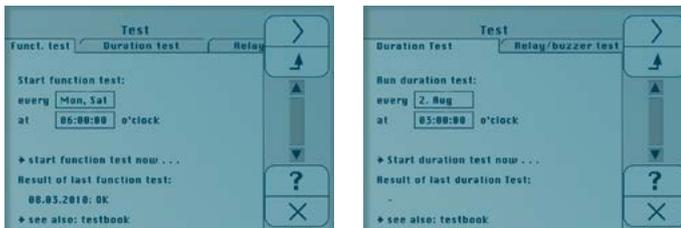
- Test logbook with central logging of test results for at least three years
- Clock and calendar function for user-programmable test cycles
- Facility to manually trigger test functions on Controller

High level of functionality

- Display of all luminaires, configuration with description and addressing
- Mode can be selected individually for every ONLITE luminaire
- User-programmable signalling contacts and audible failure notification
- Installation can be disabled to allow servicing work

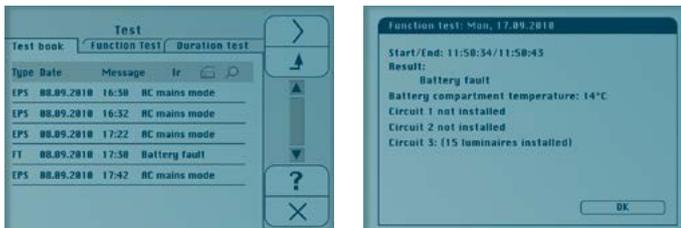
Programmable test cycles

The date and time of day of all function and annual system tests can be user programmed. This prevents tests being performed at inopportune times, e.g. while a film is being shown in a cinema.



Electronic test logbook

All function and annual system tests are logged, recorded and stored in the electronic test logbook of the SB 128 Controller for at least three years. The test logbook can be read out at any time by using an infrared or RS-232-interface.



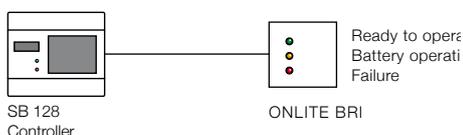
Infrared interface

The SB 128 Controller is fitted with an infrared interface for transferring data from the test log. The test log can be conveniently transferred to a mobile phone, PDA, PC or be printed out using the portable infrared printer.



User-programmable signalling contacts

The SB 128 Controller provides three potential-free user-programmable signalling contacts. These can be used, for example, to obtain remote indication of the system status.



Control Test

Central monitoring of emergency lighting using SB 128 Controller

A centrally monitored system not only takes care of all test tasks, it also acts as an electronic memory. With the SB 128 Controller you will never forget inspection deadlines again. Tests are intended to not only meet relevant standards but also to ensure safety and any defects are immediately noted.



Functions

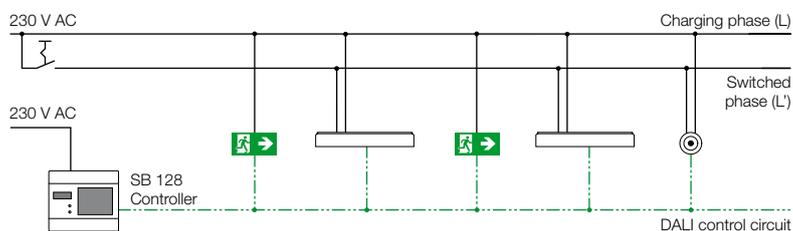
- Central control, configuring and monitoring of emergency lighting system
- User-programmable test cycles
- Fully automatic checking of luminaires
- Automatic documentation of test results
- Test logs are stored for at least three years
- Easy readout of test logbook via infrared interface
- Remote indication of status of system
- Mode can be configured on Controller
- Optional connection to lighting management systems

Benefits

- Minimal expenditure on testing
- Automatic test logbook
- Eliminates need for maintenance technician to do inspection rounds
- Alarm is given in event of a failure
- Maximum functional safety
- Reduced expenditure on maintenance
- No need to operate momentary-action switches on difficult-to-access luminaires
- Suitable for installations of all sizes

Central monitoring of NT luminaires

- Minimal expenditure on testing: function and annual system tests performed automatically, user-adjustable test cycles
- Indication of status of system and any failure notifications on the SB 128 Controller
- All test results stored for at least 3 years in test logbook
- Expenditure on support is reduced to a minimum
- Various alerting options



Making work easier and cutting costs

Running and logging both function and annual system tests

Testing with the SB 128 Control Test makes system support easier in two ways: not only are tests triggered automatically, thereby making awkward pressing of test buttons in hard-to-access locations superfluous; even the weekly inspection round to check status indications is a thing of the past with Control Test.

The results of function and annual system tests are displayed on the SB 128 Controller and data is saved in the form of a test logbook in conformity with relevant standards. This reduces the time spent by the maintenance technician to a minimum.

Failure notification

If a luminaire fails or battery capacity drops below the defined minimum, the SB 128 Controller automatically reports the fault. The message is shown on the display of the controller, indicating the type of fault and the location of the luminaire.

Different alerting options

Besides fault indication on the display of the SB 128 Controller, the system status can also be indicated by using the built-in buzzer and three user-programmable signalling contacts.

System with expandability

The SB 128 Controller is fitted with two DALI-circuits: up to 64 luminaires can be connected to each of these circuits and monitored. In addition, the second circuit of the Controller can be extended by fitting three extender modules to take another 64 luminaires. The entire installation can comprise a total of 256 monitored escape sign and emergency luminaires.



Control Test

Installation and commissioning

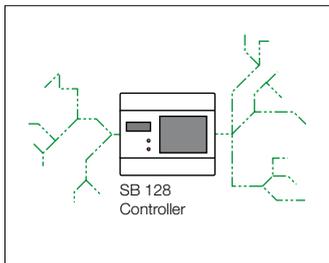
Installing the DALI control line

As usual, connect the luminaires to the supply and connect to the ONLITE local SB 128 Controller via a two-lead control circuit. Standard wiring accessories approved for low-voltage wiring can be used as the DALI control circuit. The wires are not shielded and can be connected without worrying about polarity. It is possible to route DALI and mains conductors in the same cable (e.g. NYM 5 x 1.5 mm²) without any restriction. The control circuit is protected against polarity reversal and accidental application of mains voltage.

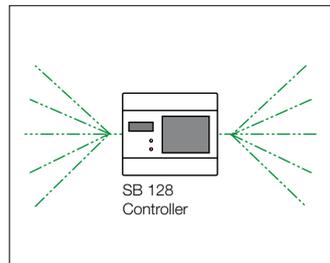


Bus topologies

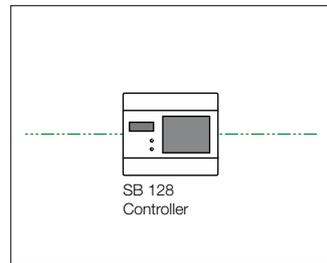
The cable for the DALI control line can be laid as required. All types of tree, star and linear topologies are possible. A ring topology is not permitted.



Tree topology



Star topology



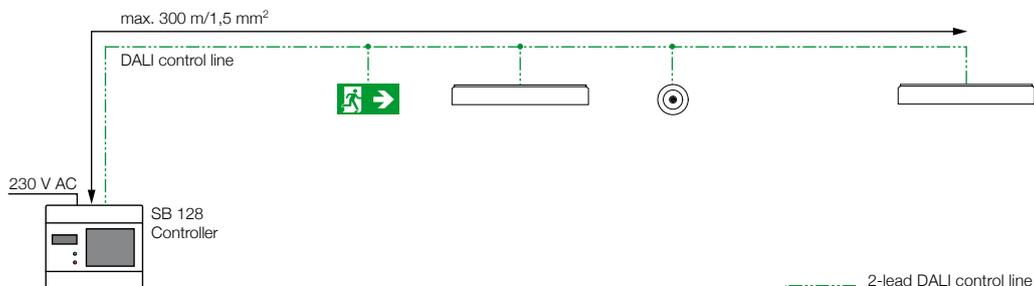
Linear topology

DALI-adressering

Per DALI-kring kunnen volgens de DALI-standaard maximaal 64 adressen worden toegekend. Zodoende kunnen tot 64 armaturen aan een kring van de SB 128 controller worden aangesloten (er zijn tot 4 kringen beschikbaar). De DALI-voeding is in de controller geïntegreerd. De adressering van de armaturen kan aan de controller zelf gebeuren. ONLITE NT-armaturen beschikken bijkomend over ingebouwde adresselectieschakelaars die een manuele adressering mogelijk maken.

Maximum line lengths

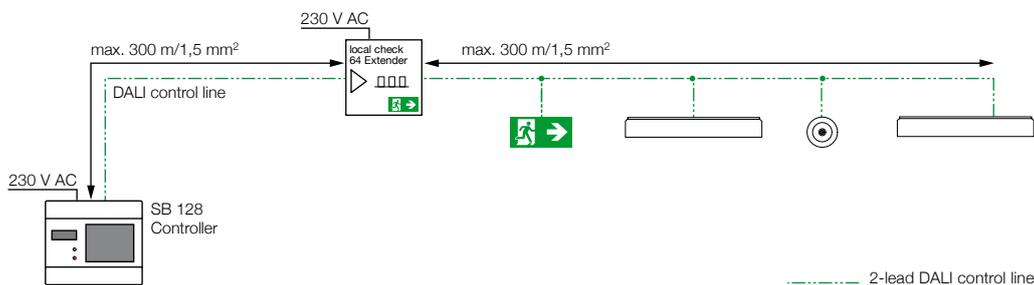
The line length quantifies the distance between the DALI power supply and the furthest DALI load. The maximum permissible line length, depending on the conductor cross-sectional area, is up to 300 m.



Cross-sectional area	1.5 mm ²	1.0 mm ²	0.75 mm ²	0.5 mm ²
Line length	300 m	200 m	150 m	100 m

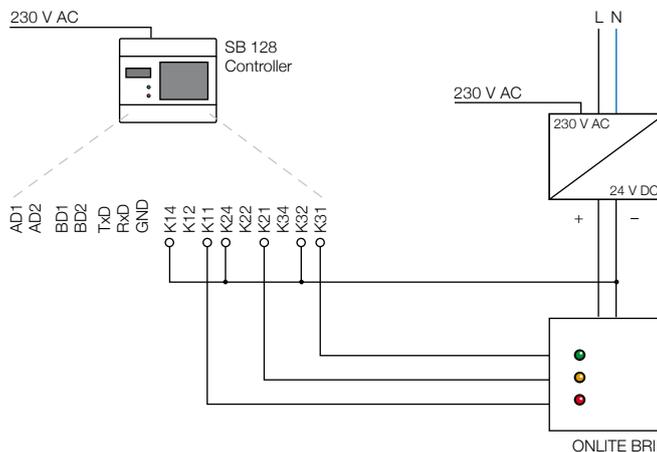
If SB local check Extenders are used, the line length from the Controller to the Extender may be up to 300 m.

The line length from the Extender to the last luminaire may be another 300 m.



Remote indication

The SB 128 Controller has three potential-free contacts that can be used to indicate emergency lighting status remotely. An external power supply is required in order to power the ONLITE BRI.

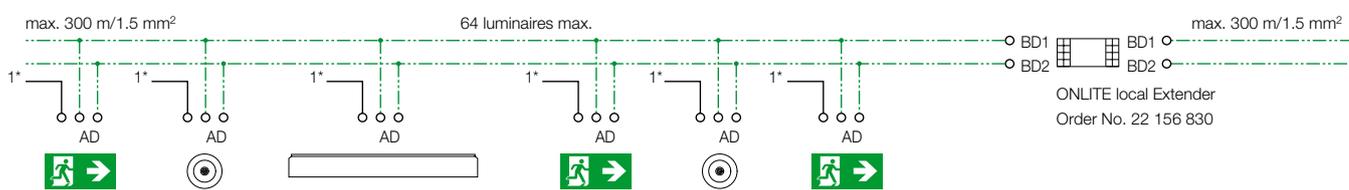
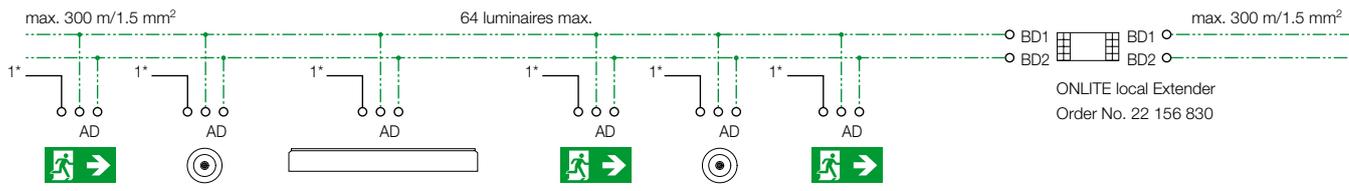
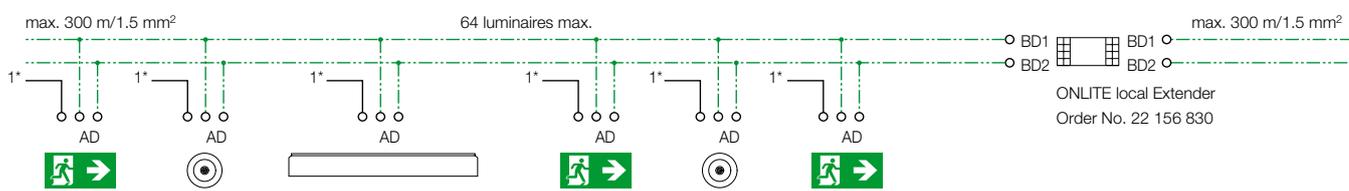
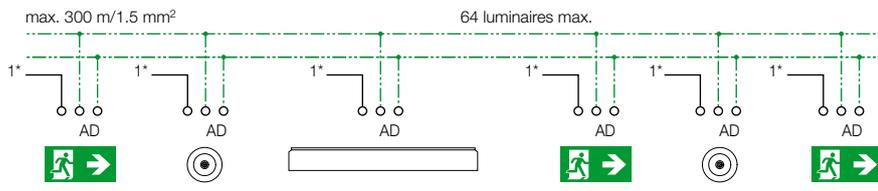
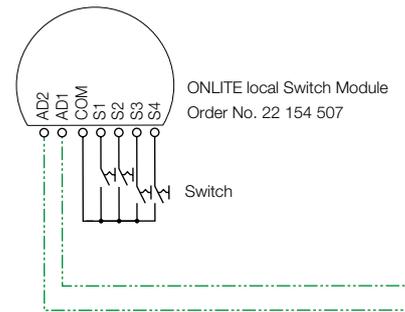
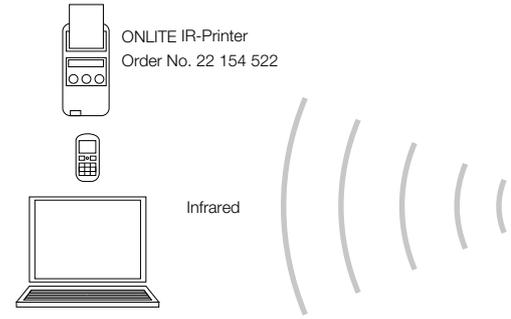


Control Test system topology

System overview

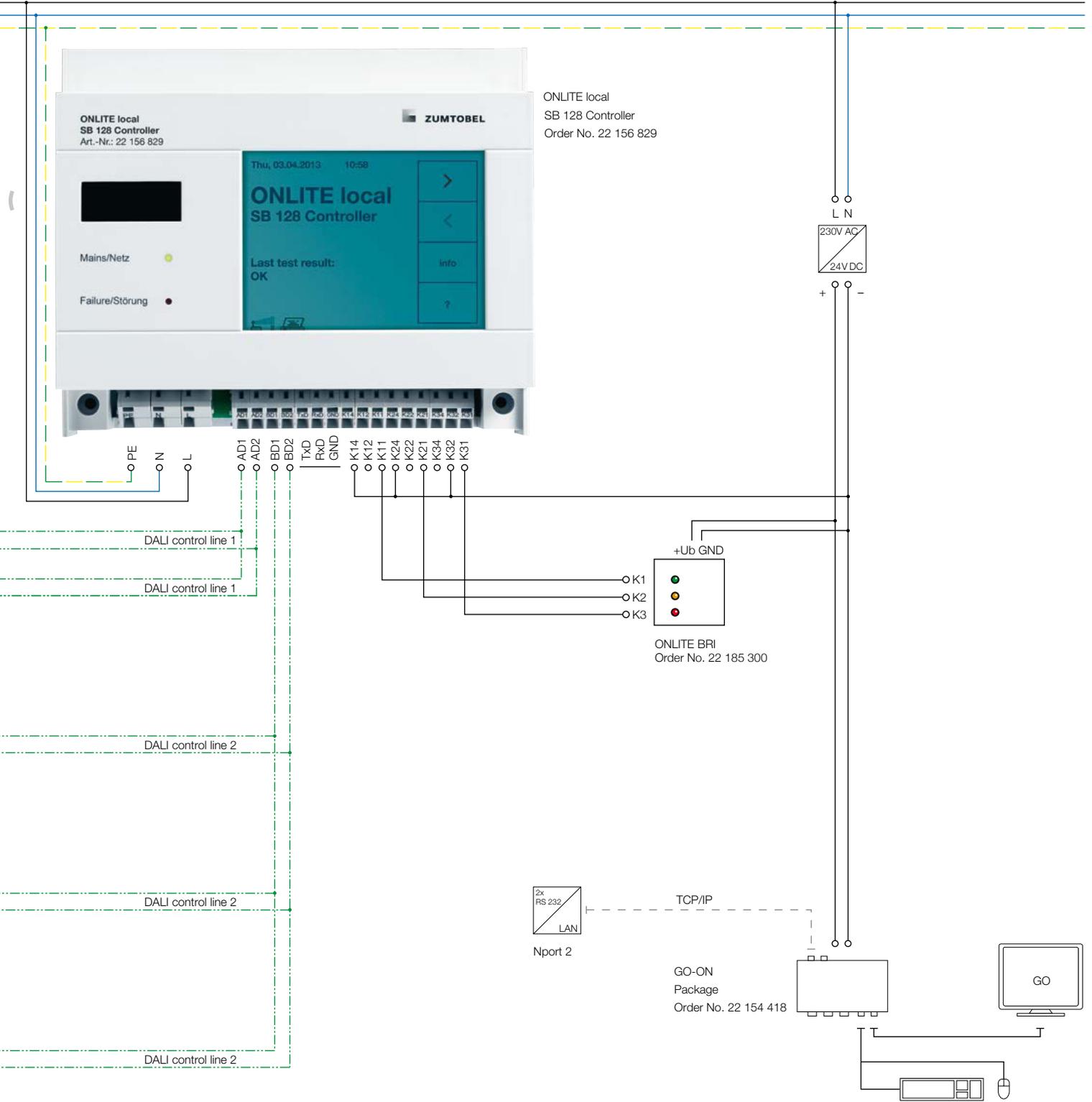
Mains 230 V/50 HZ

L
N
PE



1* 230 V AC
Continuous phase





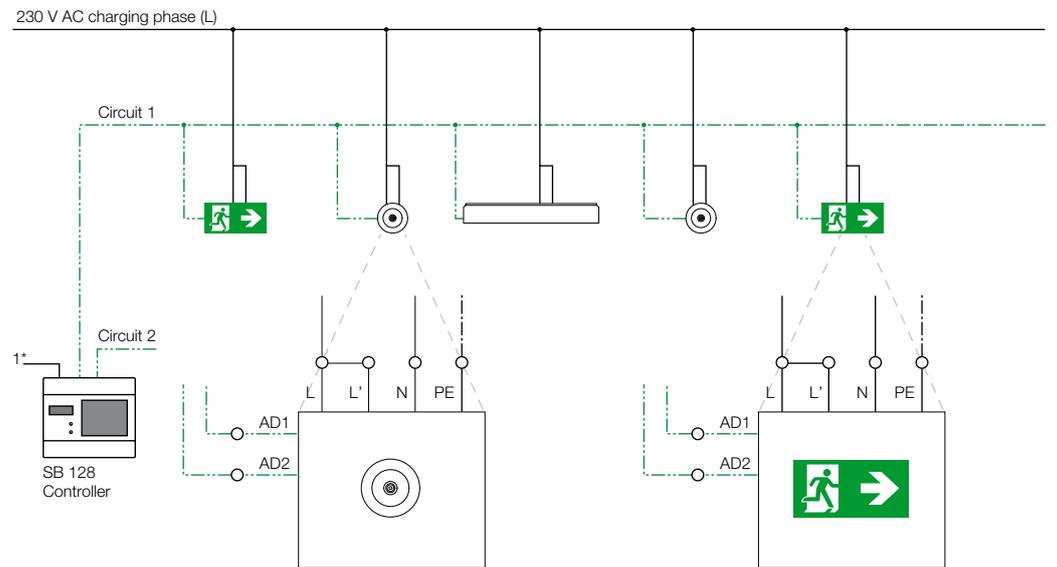
Control Test system topology

Modes

The SB 128 Controller allows the mode of every emergency and escape sign luminaire to be configured individually. Switched maintained mode can be selected as well as non-maintained mode and maintained mode.

Non-maintained mode and maintained mode

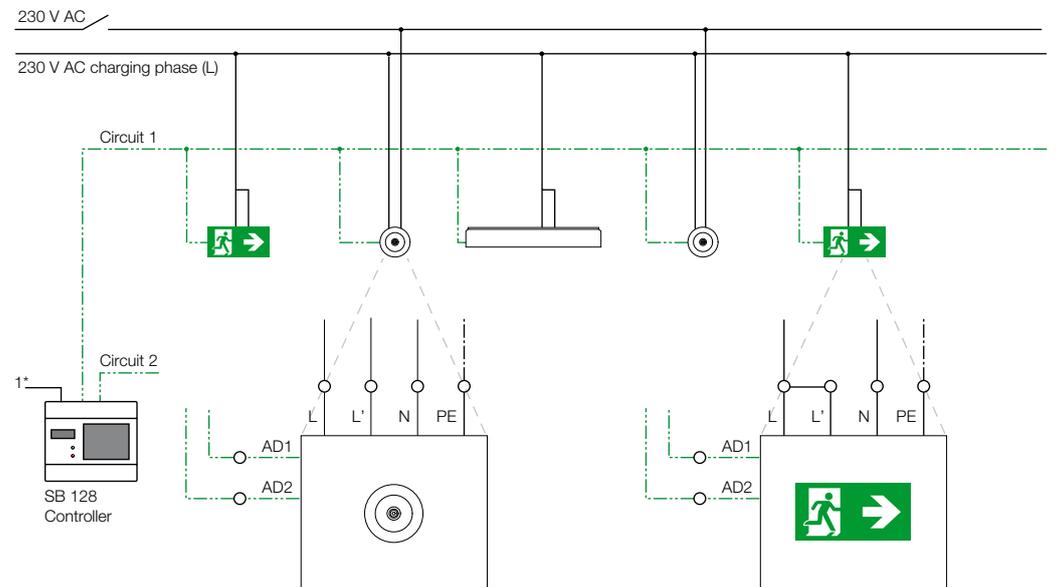
The mode is configured separately for every luminaire by making the appropriate adjustment on the SB 128 Controller.



1* — 230 V AC - - - - 2-lead DALI control line

Switched maintained mode with switching input

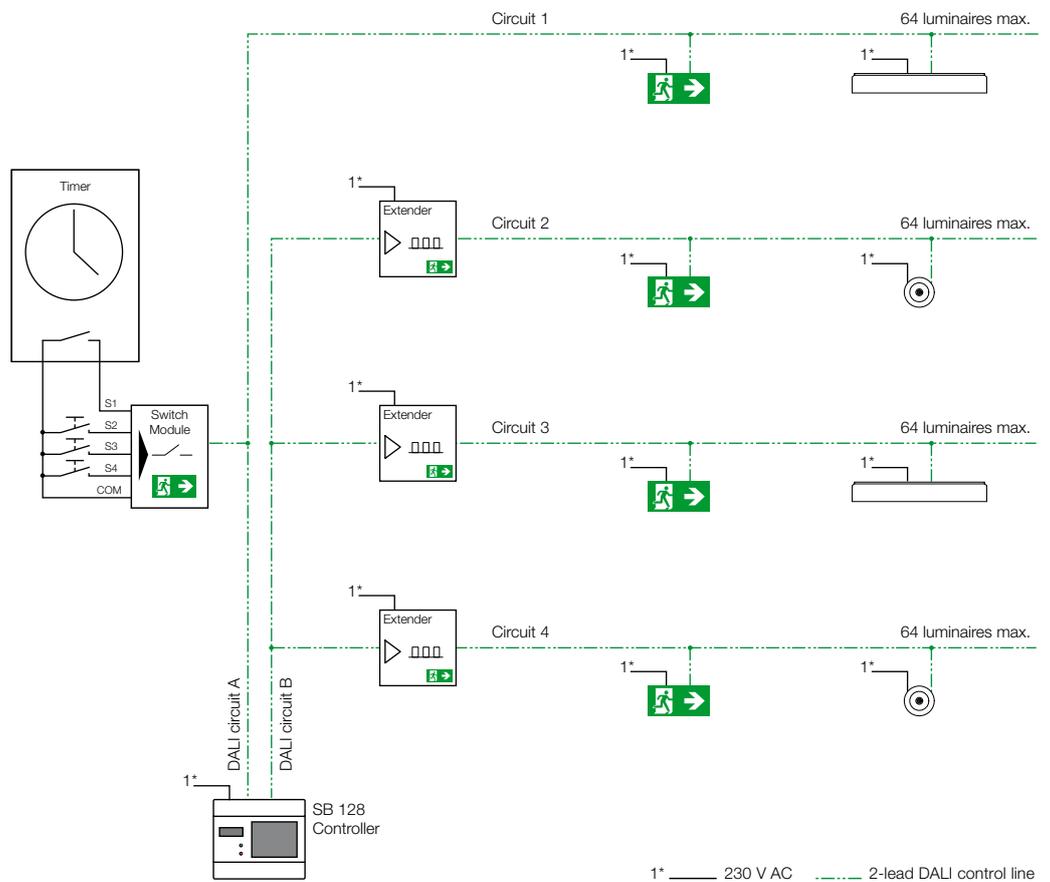
Connect switched phase to switching input of the emergency luminaire. The luminaire is switched on and off depending on the switch position.



1* — 230 V AC - - - - 2-lead DALI control line

Switched maintained light using ONLITE local switch module

This switch module makes it possible to use standard switches or time switches with potential-free contacts to switch the four emergency lighting circuits of the SB 128 Controller. Each of the four switching contacts S1 to S4 can be used to switch individual escape sign and emergency luminaires or all the luminaires on one circuit from maintained mode to non-maintained mode. This prolongs the light sources' service life significantly and cuts power consumption.



Please note

- Mode S1 must be set on the SB 128 Controller for the luminaires that are to be switched
- ONLITE local switch module must only be connected to DALI output A of SB 128 Controller
- Only one switch module per system is permissible
- The individual switching inputs of the switch module have been permanently assigned to the four DALI circuits: switching input S1 switches DALI circuit 1, S2 switches DALI circuit 2, S3 switches DALI circuit 3, S4 switches DALI circuit 4.

If you have any design queries, please contact your Zumtobel consultant.

ONLITE central eBox

ONLITE eBox

0
3
Normalbetrieb

Batteriespannung: 234,5 V
Ladestrom: -1,7 A
Batterietemperatur: 20 °C

- Anlagenstatus >
- Quickmenü >
- Notichfunktionen >
- Einstellungen >

V 1.02 12.03.2012 11:12 Uhr

Status

Address

9 AT

9 AT

9 AT

OCM-CPU

SCM ONLITE central eBox CPU OCM-CPU

ONLITE central

Emergency lighting systems with central power supply

128 **ONLITE central overview**

ONLITE central eBox

- 130 Facts and benefits at a glance
- 132 Central emergency power supply system
- 134 Examples of substation and main station applications
- 136 System overview
- 138 Optimum solution for LED emergency lighting systems
- 140 Flexible illuminance
- 142 Central processing unit for operation, visualisation and networking
- 144 SCM and OCM – to be easily fitted according to requirement and application
- 146 Three SUB stations for all requirements
- 148 Design example

ONLITE central eBox design tips

- 150 System topology

ONLITE central eBox

- 156 as a low power supply system

ONLITE central eBox system planning

- 158 Step by step towards the perfect emergency lighting solution

ONLITE central CPS

- 162 Project-specifically customised, networked central battery system
- 164 Tailor-made emergency lighting system
- 166 Examples of compact station and main station applications
- 168 System overview
- 170 Every standard DALI luminaire is also an emergency luminaire
- 172 One system control centre for operation, visualisation and networking
- 174 Plug-in and network Portable Touch PC for commissioning
- 176 Types of monitoring
- 178 Variable monitoring – everything is possible
- 180 Large choice of high-performance block batteries
- 182 System topology

ONLITE central CPS design tips

- 184 Emergency lighting as an isolated solution
- 186 Emergency lighting with LUXMATE LITENET

ONLITE central CPS system planning

- 188 Step by step towards the perfect emergency lighting solution



ONLITE central overview

System with limited output

< 1500 W for 1h emergency operation

< 500 W for 3h emergency operation

ONLITE central eBox

The centrally supplied emergency lighting system is perfectly adjusted to the specific properties of LED luminaires – and twice as energy-efficient: if energy-saving luminaires are connected, ONLITE central eBox scores through low system power. Thus, the emergency lighting system supplies luminaires with a total installed load of 1500 W for one hour, luminaires with a total of 500 W for three hours. Several systems can be linked quite easily.

- Maximised number of output circuits
- Modular input and output modules for maximum flexibility
- Combination of different monitoring modes such as DALI, Powerline, circuit monitoring within one system
- Mixed operation is possible: maintained mode, non-maintained mode, switched permanent light (L')
- Ideal for use in a fire compartment

Central power supply systems

Open-ended systems

with unlimited output

ONLITE central eBox

Providing optimum adjustment for modern LED luminaires, several systems can be simply linked to each other within the centrally supplied ONLITE central eBox emergency lighting system. By doing this, the modular input and output modules acquire maximum flexibility.

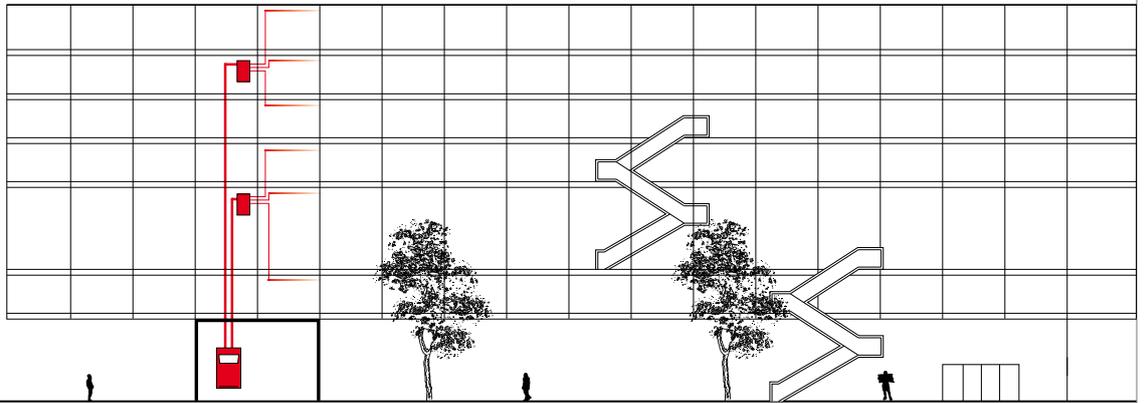
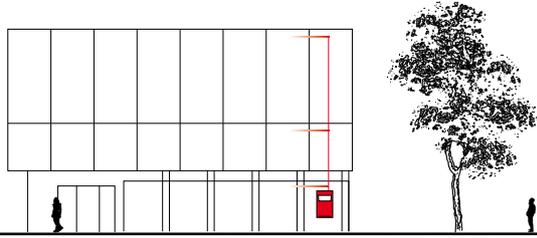
- SUB distribution for short final circuits
- Reduced energy consumption, lower battery capacity
- Combination of various monitoring modes such as DALI, Powerline and circuit monitoring within one system
- Mixed operation is possible: maintained mode, non-maintained mode, switched permanent light (L')
- Ideal for the supply of several fire compartments

ONLITE central CPS

With DALI monitoring as standard, a flexible design of up to 300 circuits is possible, and up to 6000 emergency and escape sign luminaires can be integrated into the system.

- Web-browser-based visualisation
- High output power both in AC and in DC operation





ONLITE central eBox*

Facts and benefits at a glance

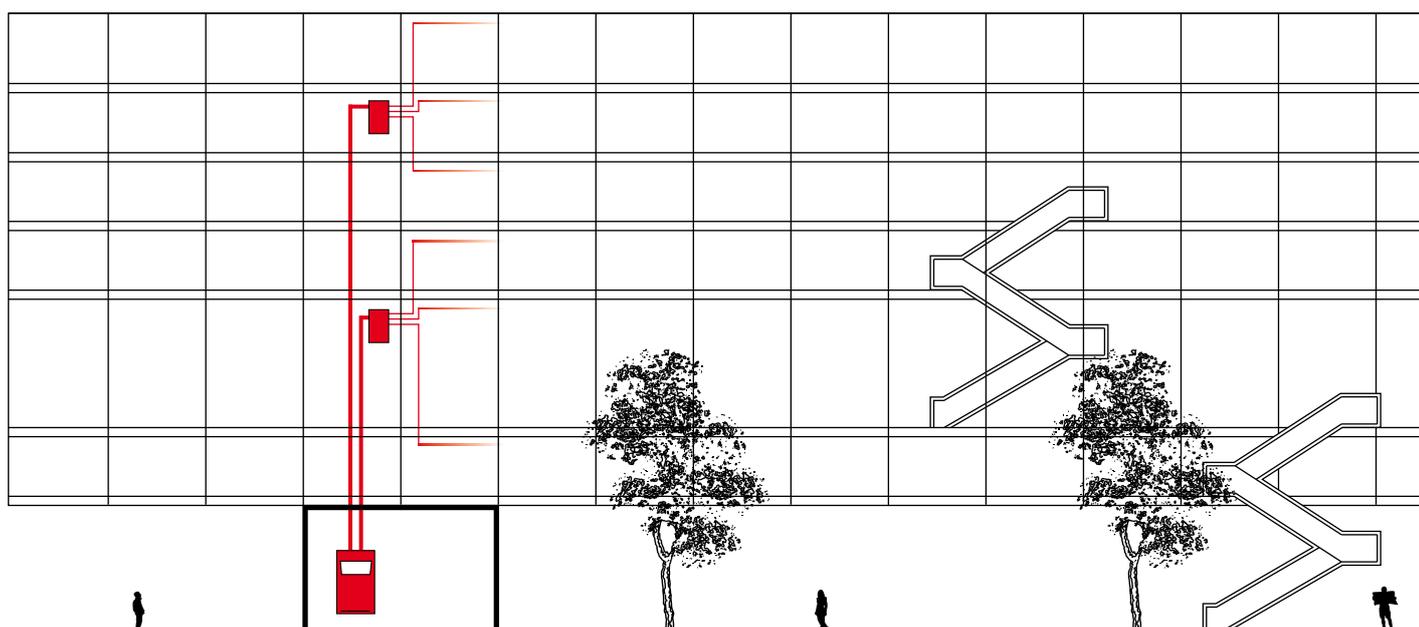


* Central power supply systems according to EN 50171

- Central Power Supply system (CPS)
- Low Power Supply system (LPS)

High level of safety

- Heartbeat-monitored bus phase detectors
- Fire loads reduced by as much as 70 % thanks to shorter cable lengths and SUB distribution boards
- Individual failure or error notification
- Current system always displayed via web-browser-based interface



Efficient intelligence

- Lower battery capacities due to flexible programming of emergency lighting levels
- DALI compatibility ensures straightforward, inexpensive integration into general lighting system
- Built-in DALI memory function for DALI lighting management without any additional hardware components
- Each circuit with learning function

Easy installation

- Communication via Powerline (mains cable) or DALI
- Not required: fire-proof cabling within a fire compartment
- 30 % less installation effort because the overall system is divided between SUB distribution boards
- Quick commissioning thanks to WIZARD-based menu

ONLITE central eBox

Central emergency power supply system

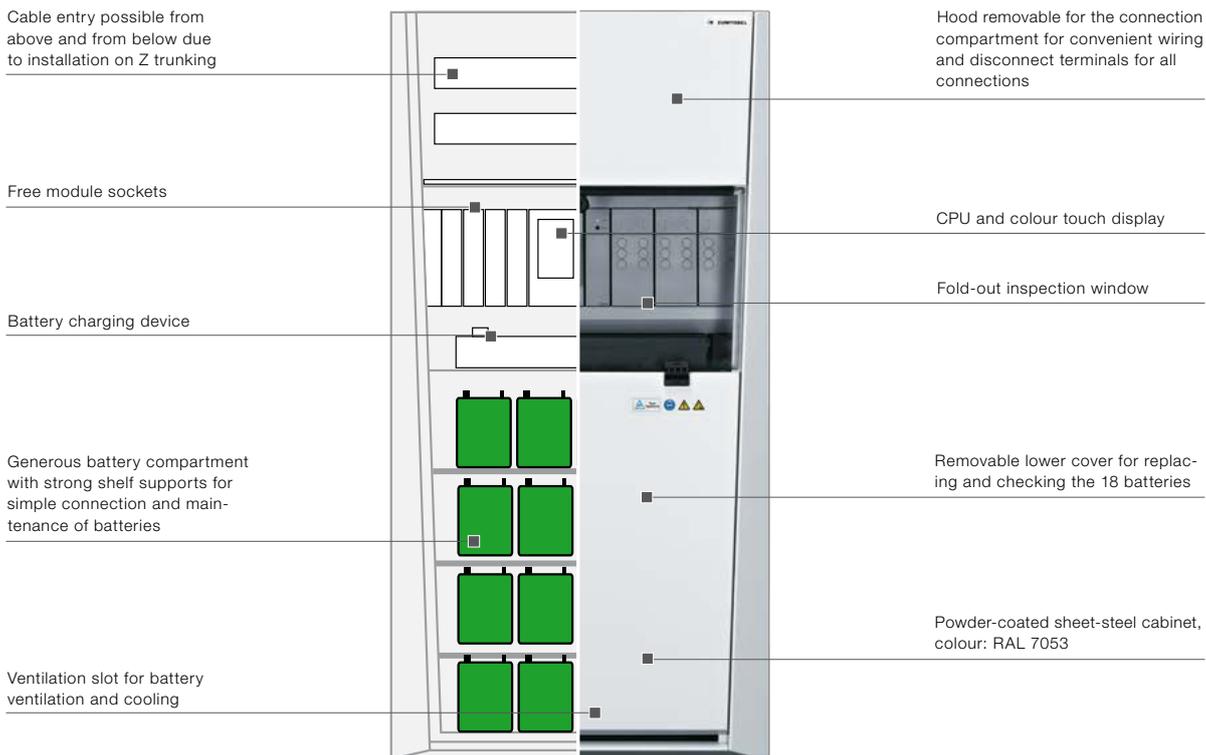
The ONLITE central eBox works in perfect harmony with Zumtobel LED emergency and escape sign luminaires. Even the use of standard luminaires with mains voltage of 230 V AC or 216 V DC is possible. Thanks to the convenient structure and the modular plug-in technology, the central emergency power supply system can be used very flexibly. Another advantage: convenient handling thanks to straightforward assembly, optional cable entry from above and from below, and a large cable clamp compartment. Initial commissioning via the WIZARD-based menu is also very easy.

Without any additional software, up to 10 000 luminaires or 100 systems are visualised via the web browser interface. Maintenance is made easy because ONLITE central eBox disposes of indicator fields for entering individual designations, and the special hood concept provides for the simple, space-saving opening of the installation. The ideal ventilation conditions of the battery compartment offer protection against overheating.

So, is ONLITE central eBox an "LPS" or a "CPS" system?

ONLITE central eBox is both: it is a small LPS (Low Power Supply) system, but it is also a player in the big league of CPS (Central Power Supply) system. The system meets all requirements of LPS and CPS according to EN 50171 and accordingly is perfectly suitable for use in tiny projects as well as in large-scale projects.

- * LPS (Low Power Supply) system under EN 50171 for max. 1500 W for 1 h emergency operation and 500 W for 3 h emergency operation
- ** CPS (Central Power Supply) system under EN 50171 Independent from output, open-ended system

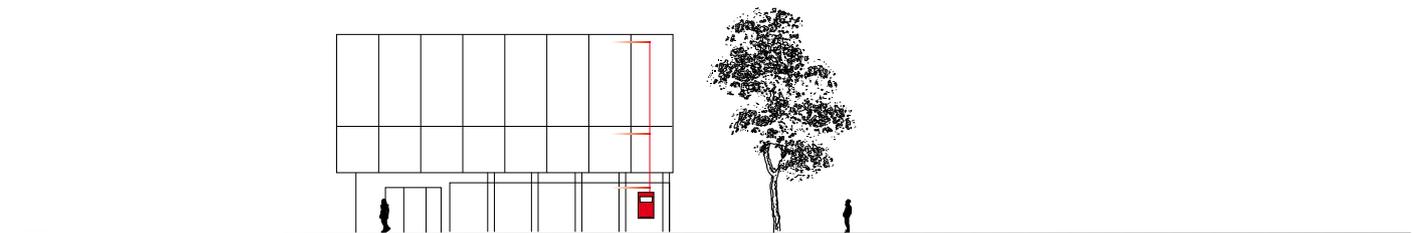




ONLITE central eBox

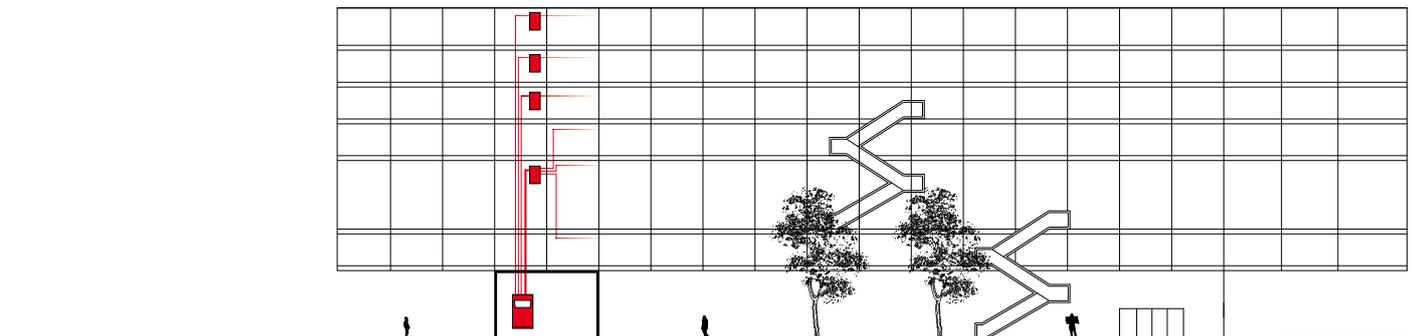
Examples of substation and main station applications

Stand alone



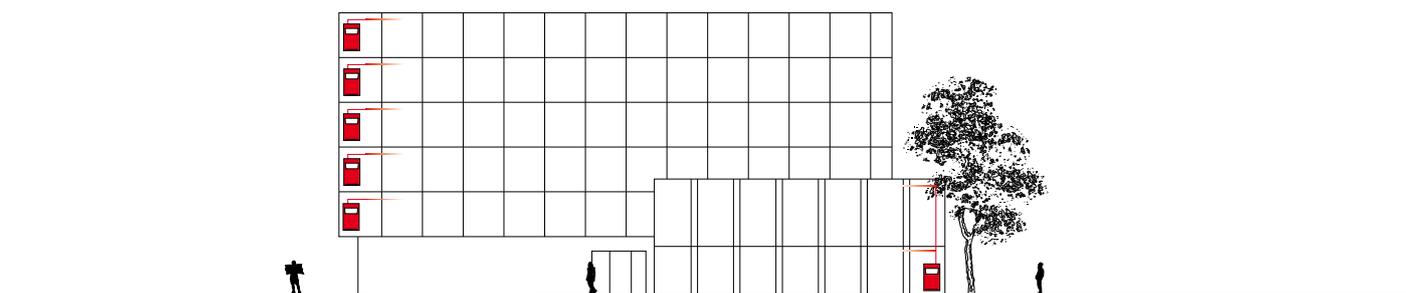
For the supply and monitoring of smaller objects, the ONLITE central eBox system is installed in the building. Being a small system without any clear fire compartments, the efficient emergency lighting system is ideally suitable for shops, smaller offices and business enterprises (SMEs).

Optimised for installation



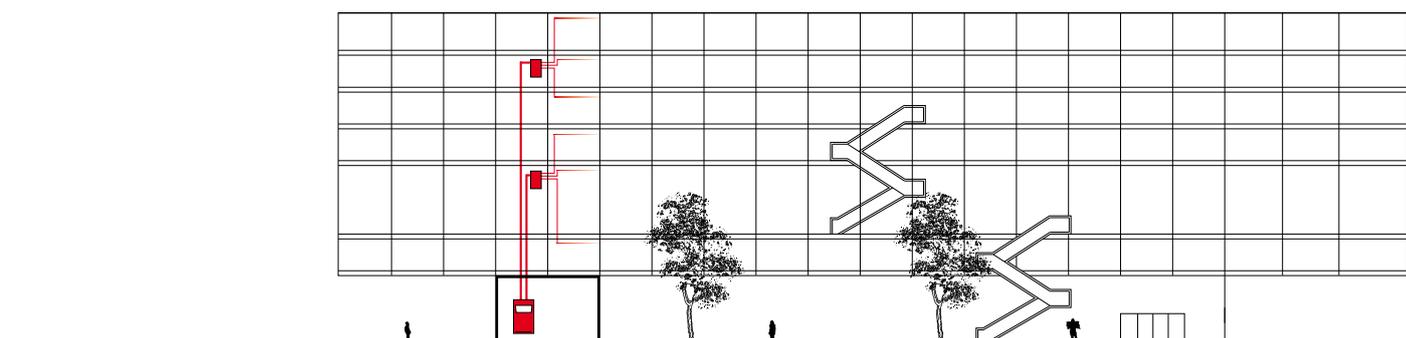
As a modular emergency lighting system, ONLITE central eBox supplies up to 30 circuits and 600 emergency and escape sign luminaires. Owing to the use of SUB stations, the system is perfectly suitable for large-scale properties in terms of security and efficiency. The SUB stations offer another advantage: up to 30 percent of installation cost and up to 70 percent of fire load are saved.

Within a network



Several ONLITE central eBox systems can supply and monitor larger storeys or fire compartments. In doing so, the systems work autonomously, but are networked among each other via Ethernet. This application is particularly suitable for large buildings with interlaced fire compartments (storeys), for upgrading the security system or successively modernising the emergency lighting to top-quality level.

Fireproof



Equipped with flameproof SUB E60 distributors, ONLITE central eBox is able to supply and monitor medium to large-scale projects. In this context, a fireproof SUB distributor as the final circuit will always preferably assume the supply of several fire compartments (storeys).

ONLITE central eBox

System overview



eBox MS 1700
Main station



eBox MS 1200
Main station

Circuits (max. 20 luminaires)	30 in total (6 internal, 24 external for SUB with 3 double circuits each)	30 in total (6 internal, 24 external for SUB with 3 double circuits each)
Maximum number of luminaires depending on the available battery capacity ¹⁾	600 overall 120 internal 120 per SUB external	600 overall 120 internal 120 per SUB external
Mains connection	3-pole (L/N/PE) 230/240 V ± 10 % max. 5500 VA output in case of full capacity	3-pole (L/N/PE) 230/240 V ± 10 % max. 5500 VA output in case of full capacity
System bus connection	2-pole cable min. 2 x 0.75 mm ²	2-pole cable min. 2 x 0.75 mm ²
Mains operation Total AC output power	5000 VA per SCM 1000 VA	5000 VA per SCM 1000 VA
Emergency operation e.g. 1 h duration Battery output DC total ¹⁾	2730 W at 24 Ah ²⁾ accommodated in the cabinet max. 750 W per SCM / 200 W per circuit	1215 W at 12 Ah ²⁾ accommodated in the cabinet max. 750 W per SCM / 200 W per circuit

ONLITE central eBox is a perfectly adjusted, convenient and flexible: for each application, there is the right basic housing in a functional design. The main station is modular and still boasts a compact size for easy assembly. Extremely small SUB stations enable the devices to be used next to the final circuits in any recess, small as it may be. With the optional external modules at the system bus, the functions of each ONLITE central eBox system can be extended individually. See further details on page 146.

Features

- Total output in emergency mode up to 2730 W for 1 hour emergency operation
- Total output in mains operation up to 5000 VA
- 30 final circuits (OCM)
- 4 external SUB stations (SUB)
- 36 switch inputs (BSIM)
- 9 bus phase detectors (BPD)
- 1 remote display (BRI)
- Web browser interface for up to 10000 luminaires and 100 systems



eBox SUB E60

Fireproof substation

eBox SUB IP65

Substation

eBox SUB IP20

Substation

	3 OCM modules with 2 output circuits per module	3 OCM modules with 2 output circuits per module	3 OCM modules with 2 output circuits per module
	120	120	120
	5-pole (from the main station L/N/PE/B+/B-)	5-pole (from the main station L/N/PE/B+/B-)	5-pole (from the main station L/N/PE/B+/B-)
	2-pole cable to main station	2-pole cable to main station	2-pole cable to main station
	1000 VA per SUB 420 VA per OCM	1000 VA per SUB 420 VA per OCM	1000 VA per SUB 420 VA per OCM
	max. 750 W per SUB ³⁾ max. 200 W per circuit	max. 750 W per SUB ³⁾ max. 200 W per circuit	max. 750 W per SUB ³⁾ max. 200 W per circuit

¹⁾ Battery power in W depending on nominal duration of battery-powered operation

Battery type	System voltage	Max. DC system output including 25 % ageing reserve as prescribed by the standard (EN 50 171 – 6.12.4)						
		8 h	5 h	3 h	2 h	1 h	0.5 h	
ONLITE central eBox Accu PB / 12	[V]							
	7.2 Ah	216	131	178	274	381	656	1085
	12 Ah	216	233	324	487	640	1215	1993
	24 Ah	216	479	697	1040	1490	2730	3750

²⁾ Battery voltage 216 V nominal (189–249 V)

³⁾ DC output power depends on the available battery capacity

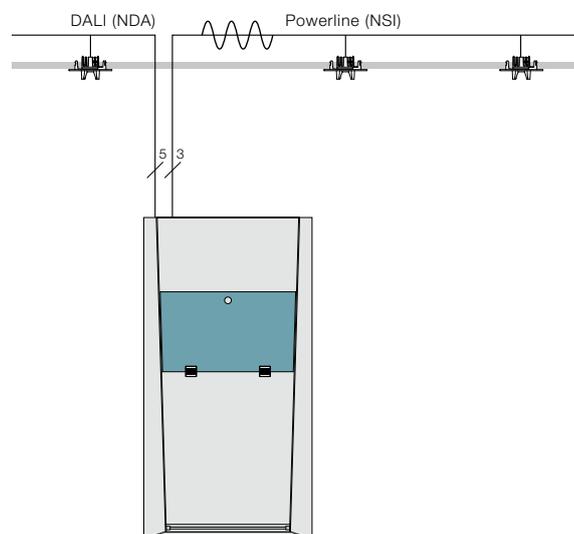
ONLITE central eBox system overview

Optimum solution for LED emergency lighting systems

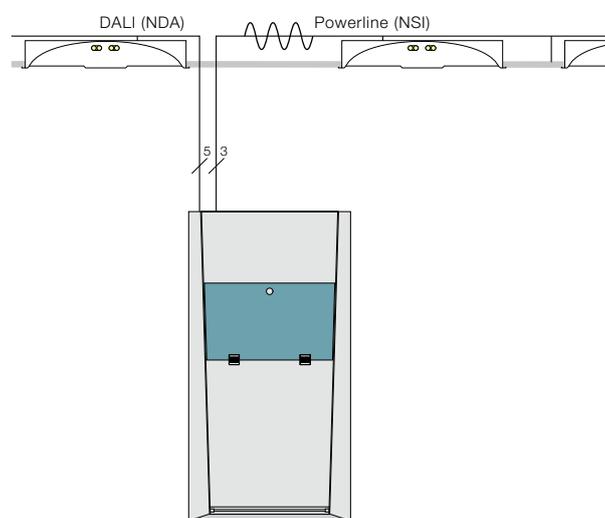
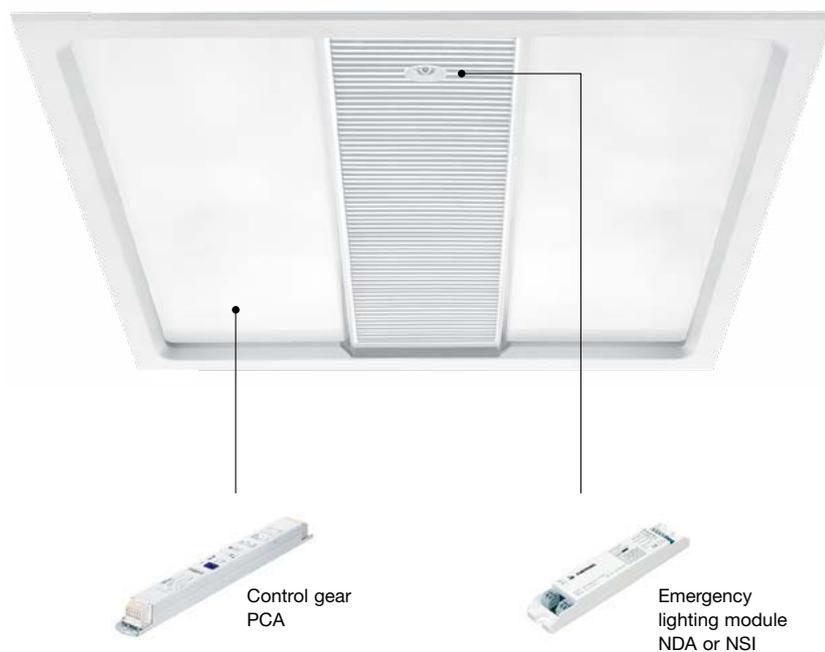
ONLITE central eBox and LED systems



Together, ONLITE central eBox and innovative LED emergency and escape sign luminaires make a great team. Using efficient LED luminaires that provide light distribution which is perfectly matched to emergency lighting needs keeps the installed load to a bare minimum. This means that required battery capacities can be smaller and supply systems can be significantly more compact. Communication between the ONLITE central eBox system and the LED luminaires is possible on the basis of DALI or Powerline, as required, which allows for the individual control and monitoring of every luminaire. Emergency lighting can be operated completely independently of the general lighting system.



ONLITE central eBox and integrated LED emergency lighting systems



General lighting luminaires can be integrated into the emergency lighting system in order to achieve a uniform ceiling look. The ONLITE central eBox system ensures visual matching and optimum functional integration into the general lighting installation. Each luminaire can be perfectly integrated into a Zumtobel lighting management system by means of integrated DALI (OCM-NDA) or Powerline output modules (OCM-NSI). Special LED solutions can be integrated into the general lighting installation in order to improve the efficiency of emergency lighting and reduce the required battery capacities. The light sources for general lighting are supplied via the conventional electrical installation; in the case of LEDs for emergency lighting, this function is assumed by the ONLITE central eBox system.

ONLITE central eBox

Flexible illuminance



Emergency lighting level at the press of a button

The setting of the emergency lighting level is effected via the WEB interface of the ONLITE central eBox. These values, based on photometric calculations, can be entered for one circuit at a time or for each individual luminaire. Zumtobel luminaires with DALI dimmable LED drivers or ballasts (luminaire name ending with LDE or NDA) and also Zumtobel ONLITE Powerline luminaires (luminaire name ending with NSI) allow for an individual definition of the dimming level in emergency operation. The emergency luminous flux of emergency luminaires can be reduced gradually down to 5 % of the normal lighting.

Conventional solution

Luminaire 1 100 %

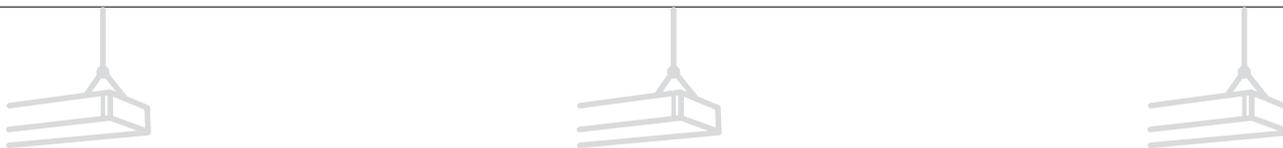
Luminaire 2 100 %

Luminaire 3 100 %



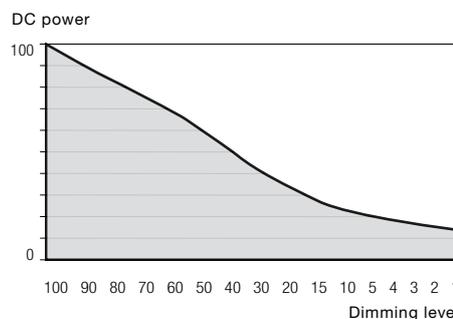
Non-programmable emergency lighting level

In the case of conventional emergency lighting solutions with non-programmable emergency lighting levels, output in emergency mode is identical to that in normal (mains operation) mode. This requires relatively high battery capacities and results in higher energy consumption.



SET DC function

The DC level can be set during depending on the luminaire type, the command is written via DALI or PLC (Powerline, requires an additional component before the ballast) by means of the WEB interface to the ONLITE central eBox and from there directly into the ballast of the respective luminaire, into the non-volatile memory. Emergency operation at each SET DC value set takes place within 200 ms, accordingly providing for use in any emergency lighting installation according to EN 50172.



ONLITE central eBox and LED systems



With programmable emergency lighting level

In most cases, 10 % of the lumen package of the mains lighting is sufficient to guarantee minimum illuminance for operation in emergency mode. The programmable emergency lighting level minimises system costs because sets of batteries and central installations can be designed considerably smaller; this also helps reduce environmental impact.

ONLITE central eBox

Central processing unit for operation, visualisation and networking

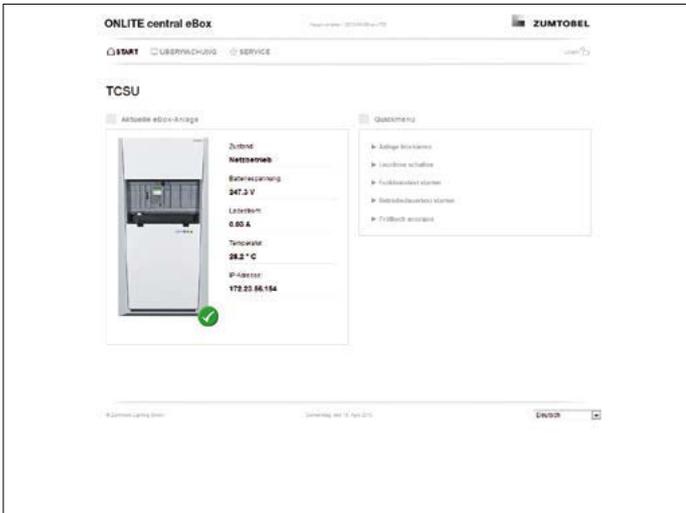


CPU Central Processing Unit

A central processing unit with a 4.3 inch colour touch display, in the ONLITE central eBox monitors and displays the entire emergency lighting system. Initial commissioning is quick and easy via the WIZARD-guided menu. Further settings are possible equally conveniently via the lower service RJ45 socket with a p2p TCP/IP connection from the laptop. Without any additional software, just based on a web browser, a clear interface layout is made available that allows operation of up to 100 systems or 10 000 luminaires. Data such as the text log book can be uploaded and downloaded easily via a USB interface.

Ethernet- WLAN- Internet - networkability is standard

Every ONLITE central eBox module can be visualised via Ethernet using a web-based browser without the need for any additional software. The system can therefore be managed remotely from any PC.



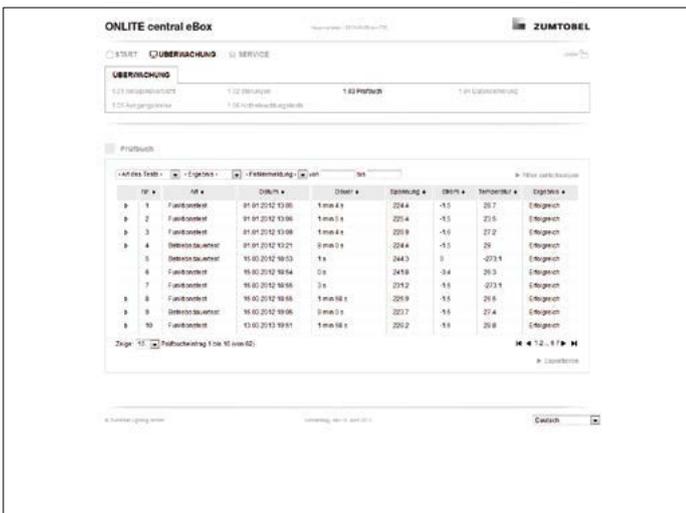
Home

The status information required under the standard is conveniently presented in the current eBox. If several eBoxes are located in the system network, they will all be shown on the first screen. Navigation is effected comfortably via the Quick menu, for instance to get to the tests or into the test log book of the installation.



Control

The second level of the main menu is primarily dedicated to temperature. The temperature curve of the battery is shown graphically and via the integrated calendar/clock function, each deviation can be represented straight to the point throughout the entire life cycle. The pre-estimated service life is available for preventive maintenance of the installations.



Test log book

The data displayed and stored are used to prepare the test log book. The non-volatile memory contains the values of at least three years – the test log book can be freely formatted and exported for archiving as a .pdf or .xml file.



ONLITE central eBox

SCM and OCM – to be easily fitted according to requirement and application



ONLITE central eBox SCM

SCM Switch Connection Module

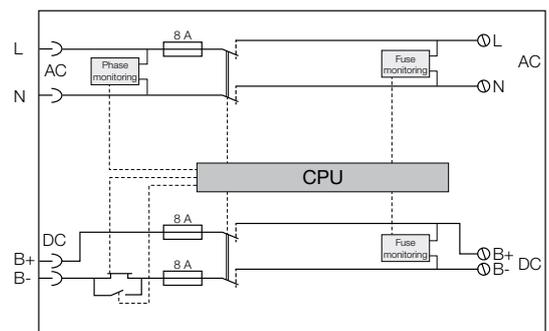
One ONLITE central eBox SCM is included in the standard scope of supply. If several SUB stations are used, one ONLITE central eBox SCM per SUB station must be ordered separately.

Output power AC	1000 VA
Output power DC	750 W
Fuses (6 x 32 mm)	3 x 8 A
Output voltage AC	230 / 240 V ± 10 %
Max. number of luminaires	120



SCM

Switch connection module



ONLITE central eBox OCM

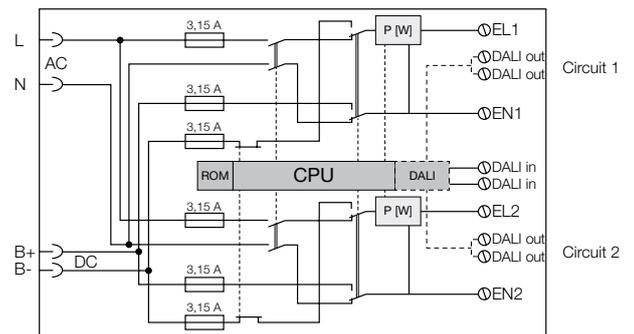
OCM Output Circuit Modules

Up to three ONLITE central eBox OCMs per system can be used as an option. In this context, the different functions of the modules may also be mixed. Each circuit is separately protected by a 3.15 A 6 x 32 mm fuse. In the battery circuit, there is 2-pole fusing, in the mains network 1-pole fusing. The total output of the three double-circuit modules must not exceed 1000 VA and 750 W.

Output power per circuit AC	420 VA
Output power per circuit DC	200 W
Fuses (6 x 32 mm)	6 x 3.15 A
Output voltage AC	230 / 240 V ± 10 %
Output voltage DC (nominal)	216 V (189–249 V)

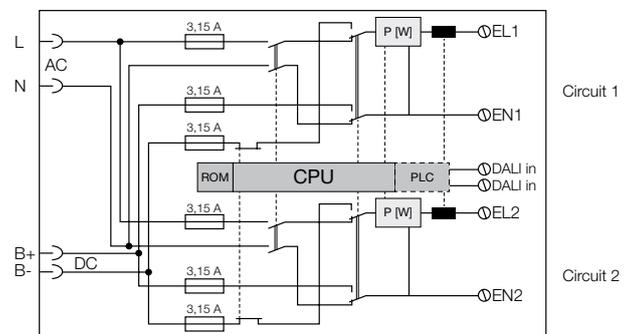
OCM NDA

Double-circuit module DALI communication



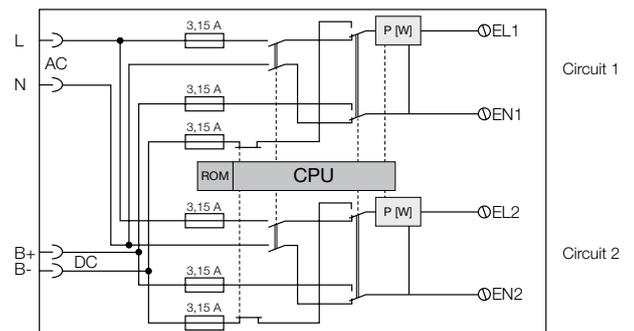
OCM-NSI

Double-circuit module Powerline communication



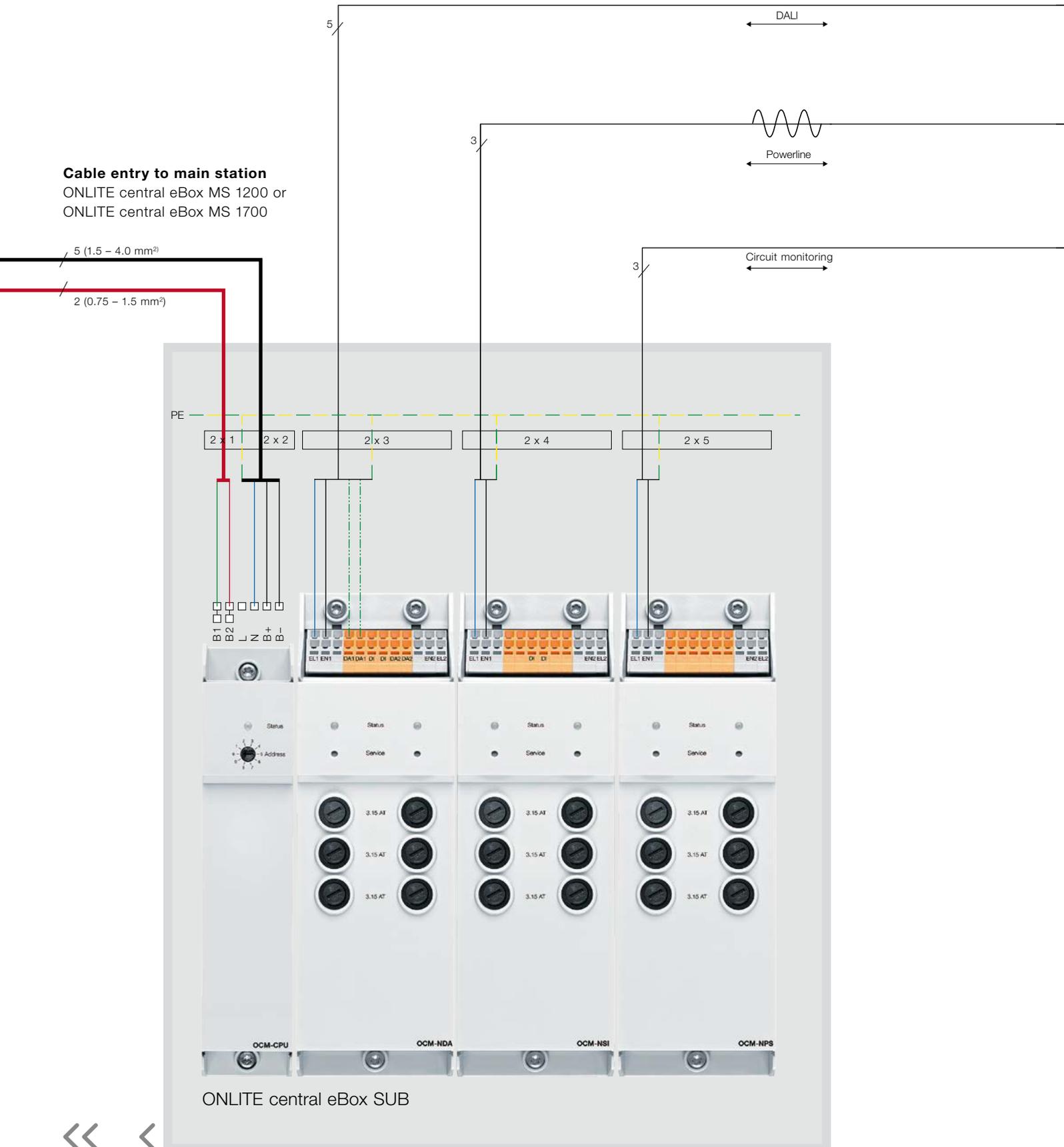
OCM-NPS

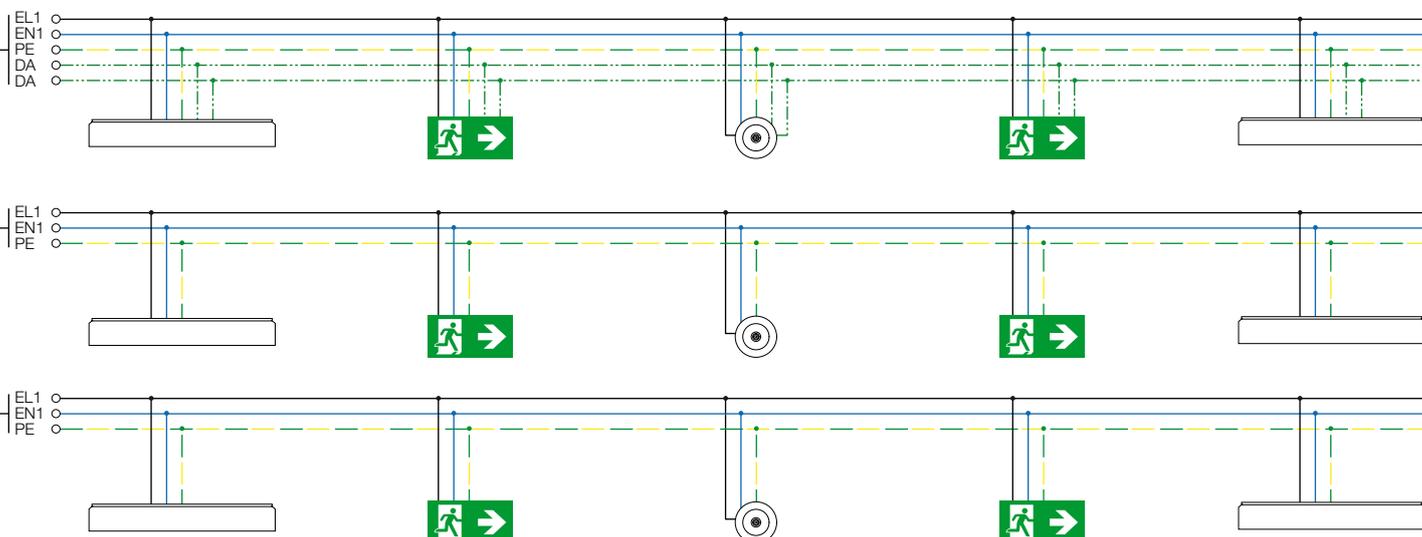
Double-circuit module with circuit monitoring



ONLITE central eBox

Three SUB stations for all requirements





Cable entry from substation to main station ONLITE central eBox

The 5-pole power cable must be installed in a FP cable up to the place of installation of the ONLITE central eBox SUB station of the respective fire compartment. If several fire compartments are supplied from the ONLITE central eBox SUB E60, the power cable must be installed in a fireproof manner up to the cabinet, and the final circuits up to the fire compartments to be supplied in each case.

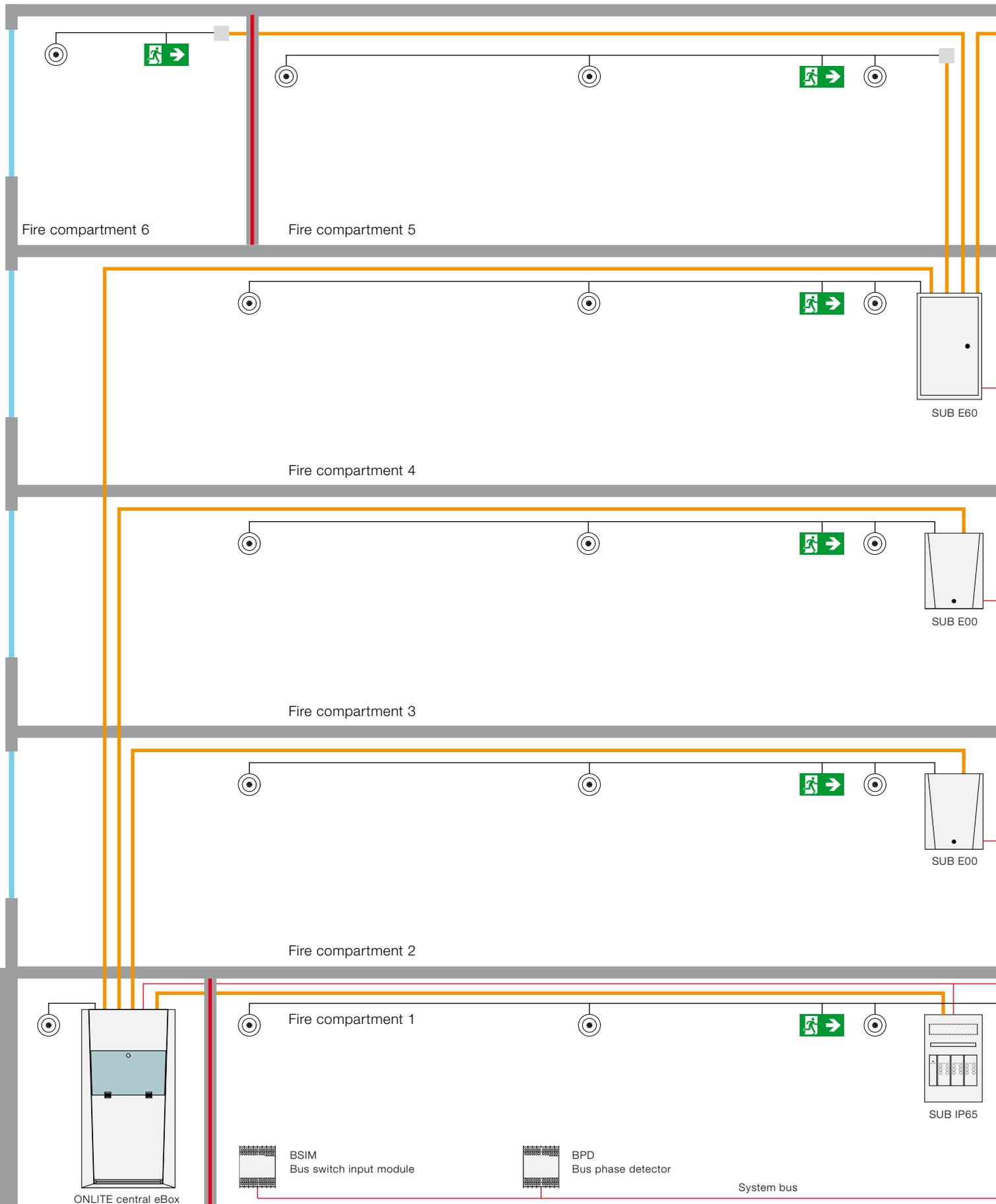
The system bus may be executed in a linear manner or in a star topology. Fireproof installation is not required, since the monitoring of the bus is ensured through heartbeat control. If on account of an interruption or short-circuit, any logging data arrive late or not at all, AC emergency operation of all luminaires is activated at the final circuit.

Three SUB stations are available

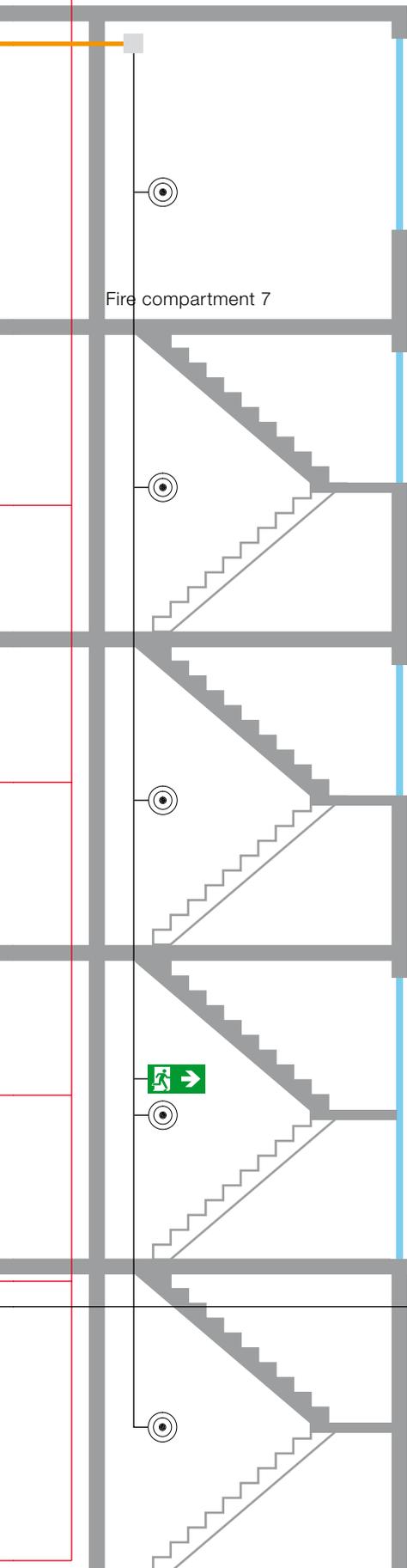
- ONLITE central eBox SUB E60
Standard SUB station is used if final circuits in different fire compartments are served
- ONLITE central eBox SUB E00
Standard SUB station in E00 IP20 to supply final circuits without crossing any fire compartment
- ONLITE central eBox SUB IP65
Standard SUB station in E00 IP65 to supply final circuits without crossing any fire compartment for rough environments such as industry, car parks or underground parking.

ONLITE central eBox

Design example



ONLITE BRI
Remote display



Usually, an eBox system has the following structure:

The ONLITE central eBox main station is located in an engineering room¹⁾ and supplies the various SUB stations through risers installed in a fireproof manner. Monitoring is possible by an additional, separately installed system bus (no maintenance of function required) that also allows for external modules²⁾ to be integrated. Emergency luminaires can conveniently be switched together with the general lighting. Alternatively, fire alarm systems can activate the emergency lighting earlier – before the primary voltage in the building fails – via the alarm input of a bus phase detector.

¹⁾ See page 150–151
²⁾ See page 148–149



ONLITE central eBox design tips

System topology



A ONLITE BRI remote display
 The module is a remote display for the operational status of an emergency lighting system. This is required in every installation under EN 50172. The remote display is installed at a superordinate location within the building, in order to show the status of the system at any time.

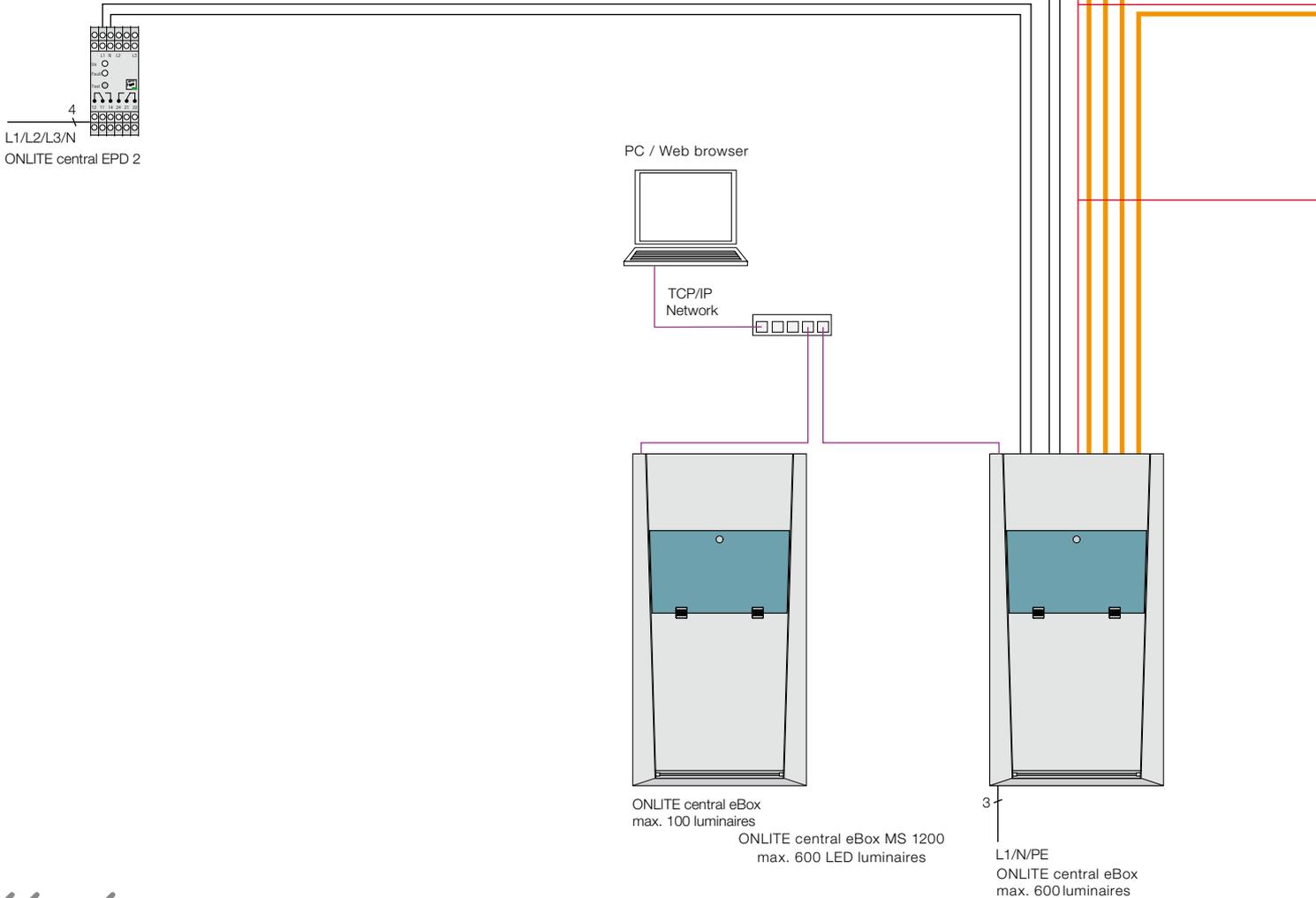
Status LED*	
Green	System is ready for operation
Yellow	System in battery mode
Red	Too many faulty light sources in the system
Red, regular every 0.5 s on/off	error in the system
All, off	break-down of the system bus
All, regular every 0.5 s on/off	error at the system bus or main station failure

* Use with
 ONLITE central eBox

System bus

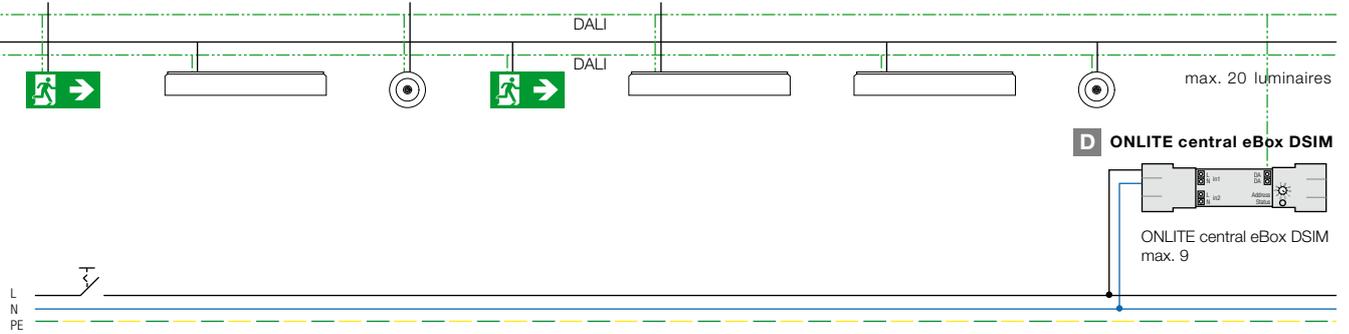
Individually monitored

Emergency off



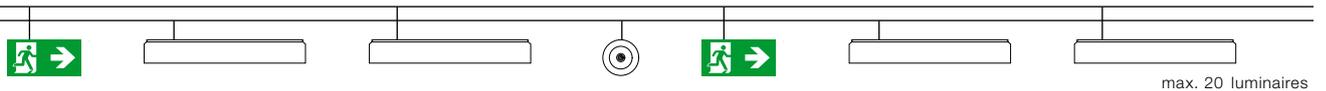
Individually monitored DALI (NDA)

max. 20 luminaires



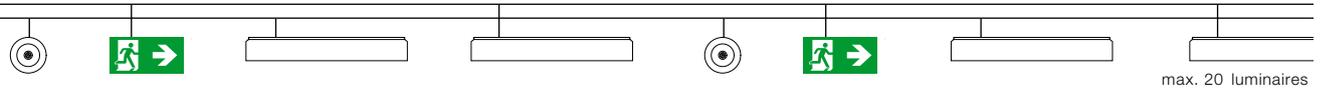
Individually monitored Powerline (NSI)

max. 20 luminaires

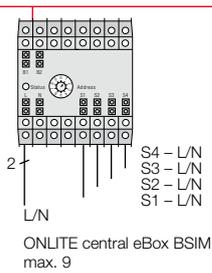


Circuit monitored (NPS)

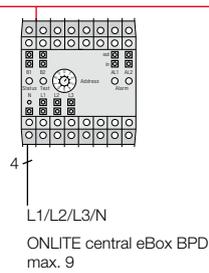
max. 20 luminaires



ONLITE central eBox
SUB stations
max. 4



B ONLITE central eBox BSIM



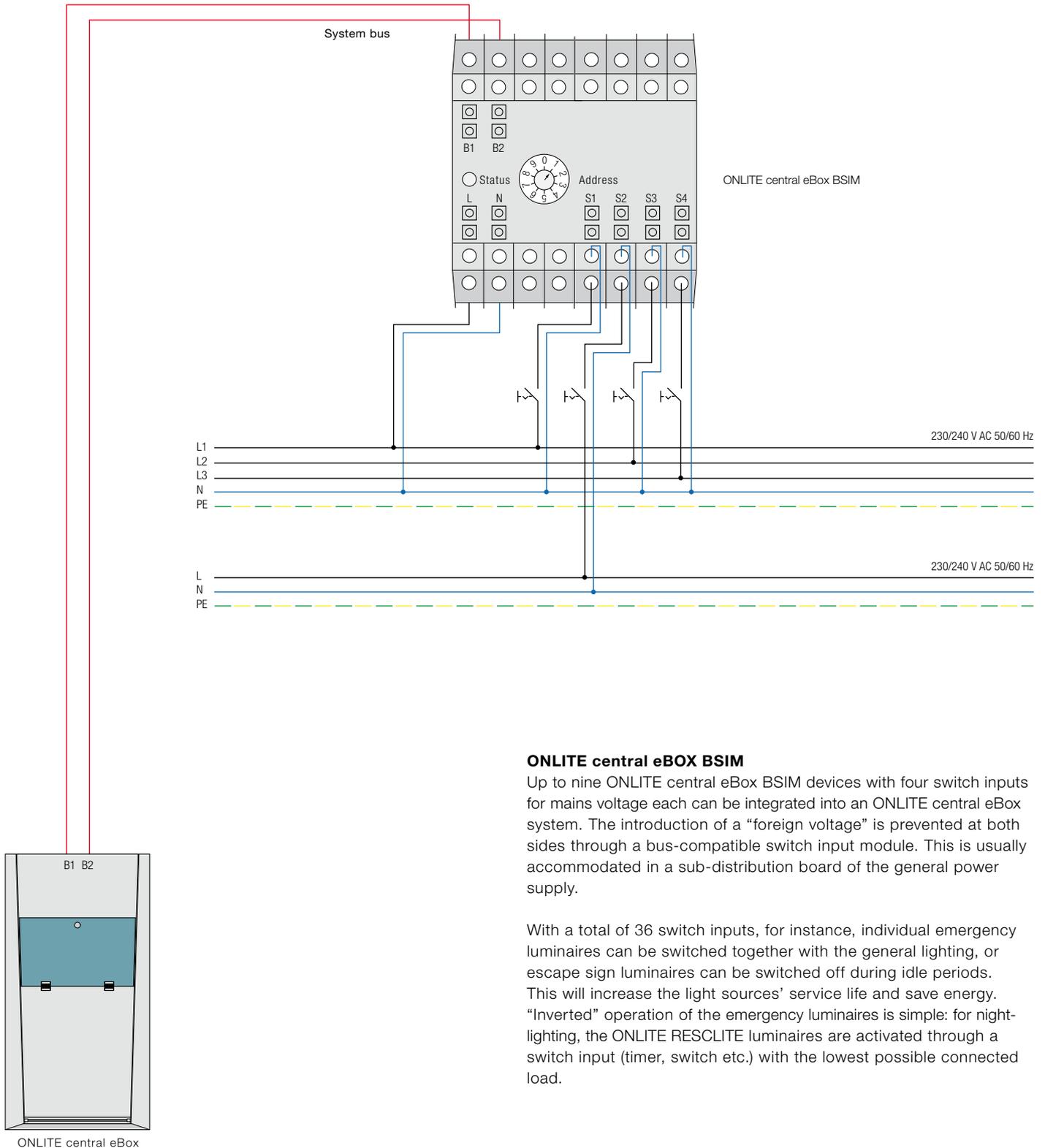
C ONLITE central eBox BPD

2
/
System bus

ONLITE central eBox design tips

System topology

B ONLITE central eBox BSIM

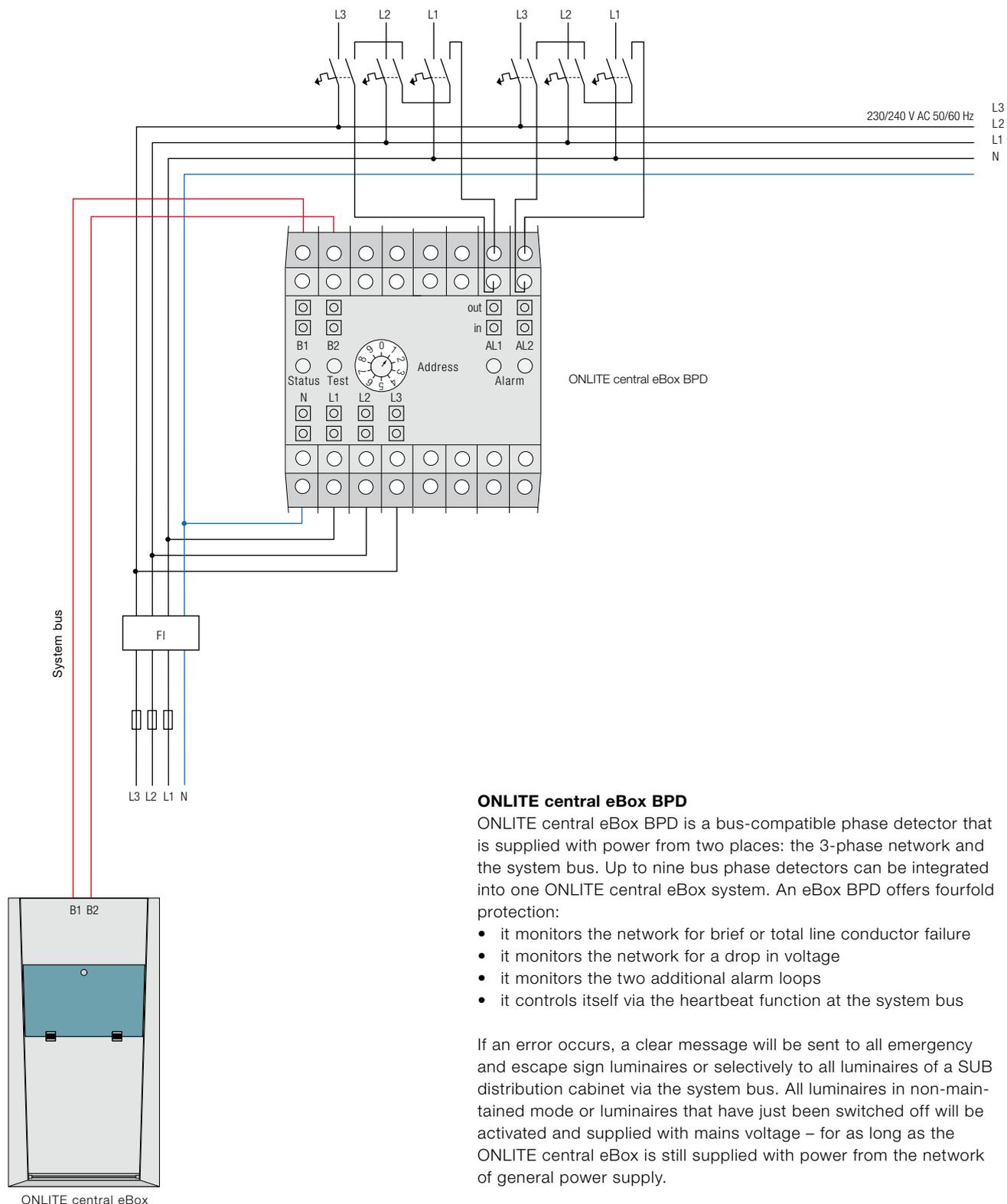


ONLITE central eBOX BSIM

Up to nine ONLITE central eBox BSIM devices with four switch inputs for mains voltage each can be integrated into an ONLITE central eBox system. The introduction of a “foreign voltage” is prevented at both sides through a bus-compatible switch input module. This is usually accommodated in a sub-distribution board of the general power supply.

With a total of 36 switch inputs, for instance, individual emergency luminaires can be switched together with the general lighting, or escape sign luminaires can be switched off during idle periods. This will increase the light sources’ service life and save energy. “Inverted” operation of the emergency luminaires is simple: for night-lighting, the ONLITE RESCLITE luminaires are activated through a switch input (timer, switch etc.) with the lowest possible connected load.

C ONLITE central eBox BPD



ONLITE central eBox BPD

ONLITE central eBox BPD is a bus-compatible phase detector that is supplied with power from two places: the 3-phase network and the system bus. Up to nine bus phase detectors can be integrated into one ONLITE central eBox system. An eBox BPD offers fourfold protection:

- it monitors the network for brief or total line conductor failure
- it monitors the network for a drop in voltage
- it monitors the two additional alarm loops
- it controls itself via the heartbeat function at the system bus

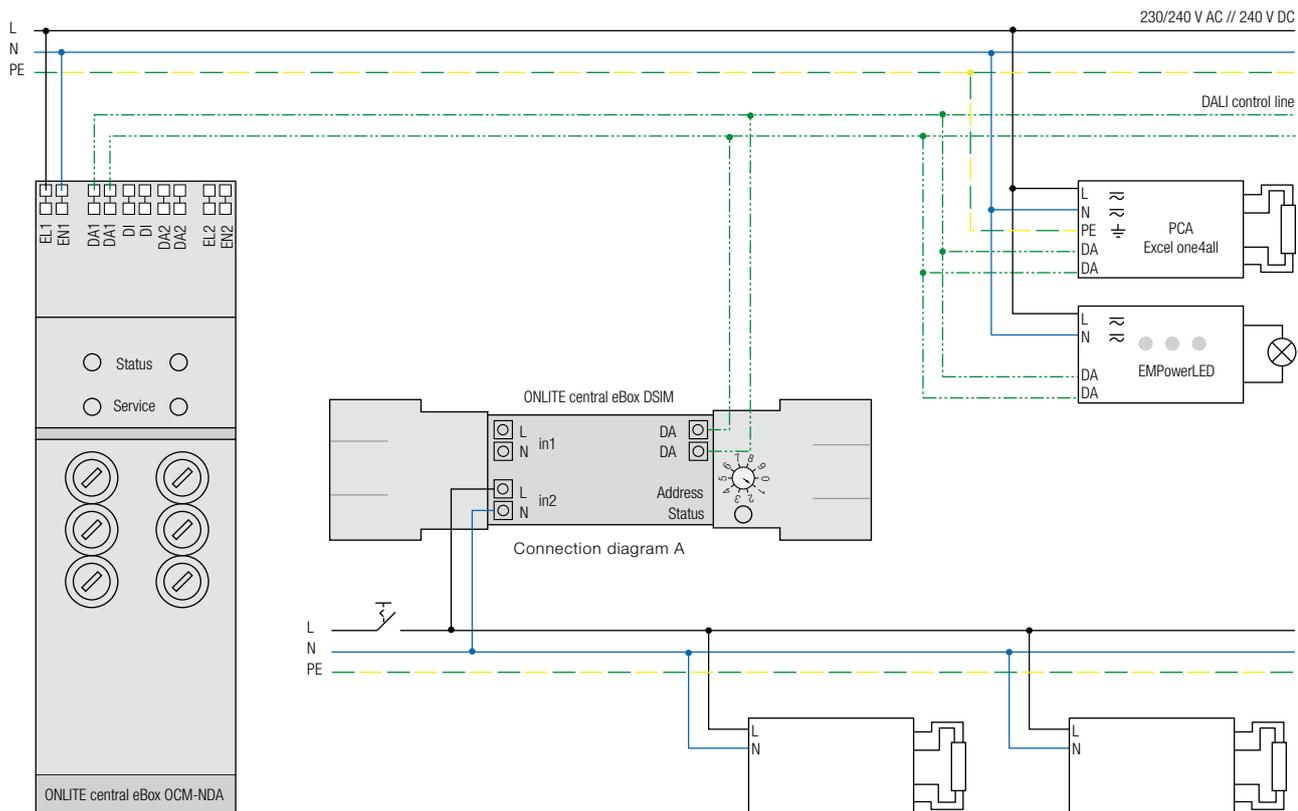
If an error occurs, a clear message will be sent to all emergency and escape sign luminaires or selectively to all luminaires of a SUB distribution cabinet via the system bus. All luminaires in non-maintained mode or luminaires that have just been switched off will be activated and supplied with mains voltage – for as long as the ONLITE central eBox is still supplied with power from the network of general power supply.



ONLITE central eBox design tips

System topology

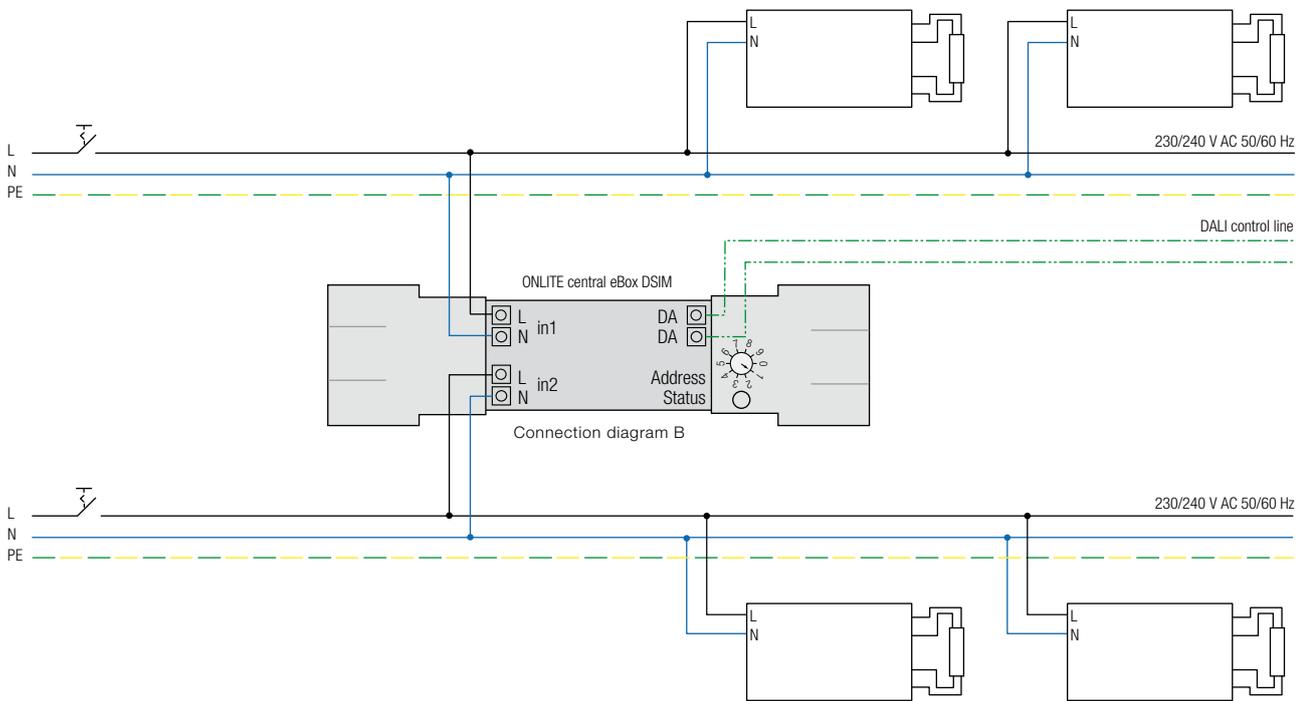
D ONLITE central eBox DSIM



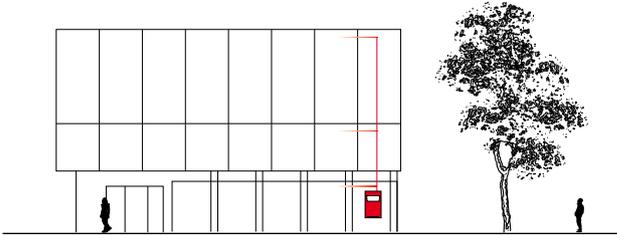
ONLITE central eBox DSIM

Dual mains switch input module for DALI-based activation of emergency luminaires together with the general lighting. Via a mains switch input of the general lighting, all luminaires at the DALI output can be switched throughout a circuit or group. The advantage of the module is that the DALI signal can be used in the room and accordingly close within the field, and that it need not be brought up to the switch cabinet of the emergency lighting.

The ONLITE central eBox DSIM can either be built into a luminaire for general lighting or recessed into the ceiling, using the strain relief. The module is addressed through a mechanical switch (1 to 9), accordingly 18 switch inputs can be used at one DALI bus. The module is supplied via the DALI bus; 3 bus loads must be calculated for this.



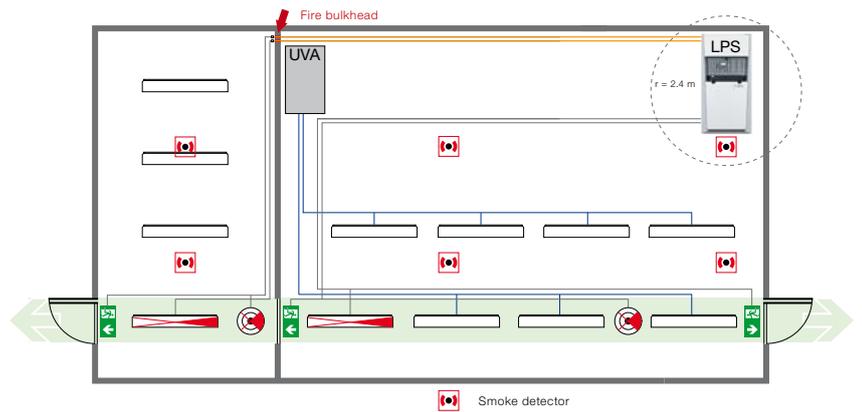
ONLITE central eBox as a Low Power Supply system



For the respective installation site of the ONLITE central eBox as Low Power Supply system (LPS = 1 h < 1500 W / 3 h < 500 W) different country regulations apply.

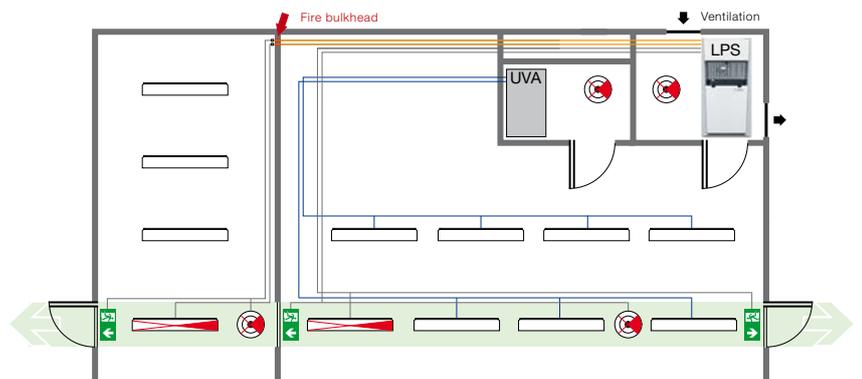
Requirements in Austria

If a fire resistance duration of 30 minutes is ensured for an LPS, no separate electrical service room with direct ventilation to the outside is required. This can be ensured through tested distribution cabinets with maintenance of function or if there is a flame retardant and low smouldering environment within a radius of 2.4 m and no objects are stored there, if the area is monitored by an automatic fire alarm system.



Requirements in Germany

The LPS distribution cabinet of the emergency power supply must be accommodated in rooms that are separated from other rooms in a fireproof manner (F90). The access doors must at least comply with EI₂30C (T30). The LPS is the first distribution site in the building that is directly powered by the emergency power source. In Germany, the same requirements apply to the accommodation of LPS and CPS installations.



Requirements in Switzerland and Italy

Power sources for emergency applications as well as their control equipment must be installed in a stationary manner. They must be accommodated in rooms with a low fire hazard. The fire resistance of the installation site must comply with the fire resistance of the bearing structure of buildings and plants or fire compartments, but must be at least EI 30 (nbb – non-combustible). Doors must be produced with fire resistance according to EI 30. Power sources for emergency applications must be separated from distribution facilities (switch-gear combinations) of the general power supply with EI 60 (nbb) fire resistance.

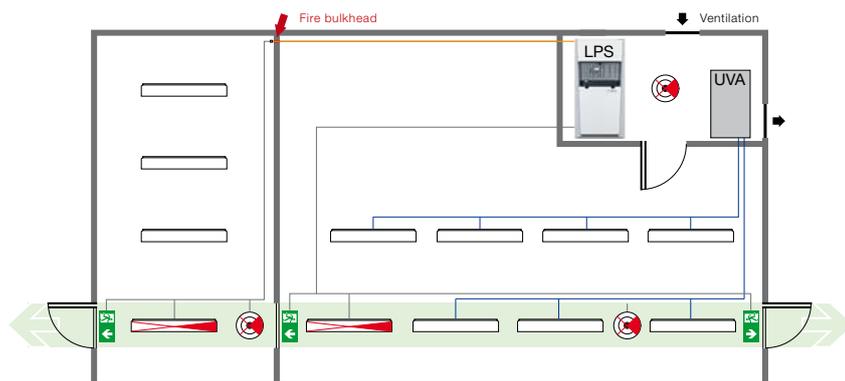
Setting up installations including battery

Admissible locations of power sources for emergency applications

- Sanitary distribution cabinets
- Telephone switchboards
- Rooms with safety systems
- Rooms with low-voltage distribution equipment for general power supply: power sources for safety applications must be separated with EI 60 (nbb) fire resistance or must be set up at a distance of at least 0.8 m in a non-combustible cabinet.

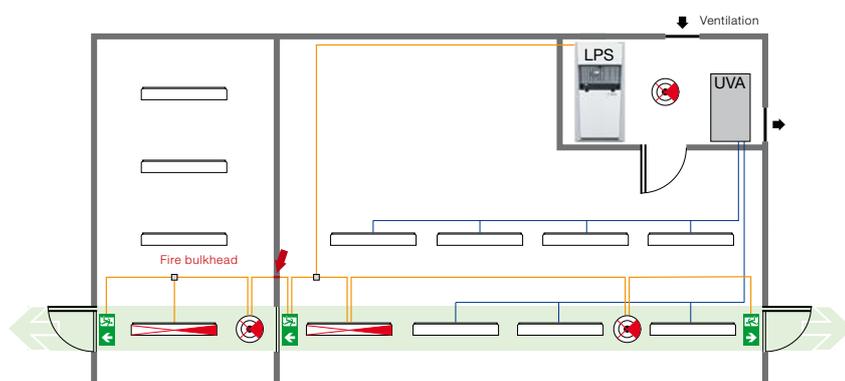
Inadmissible locations of power sources for safety applications

- Escape routes
- Ventilation control centres
- Cleaning closets
- Storerooms and production rooms containing combustible material
- Installation facilities for thermal engineering installations



Requirements in Great Britain

LPS installations must preferably be accommodated in special utility rooms. Final circuits must be installed completely with fireproof cables that will then be able to supply emergency and escape sign luminaires of several fire compartments as well.

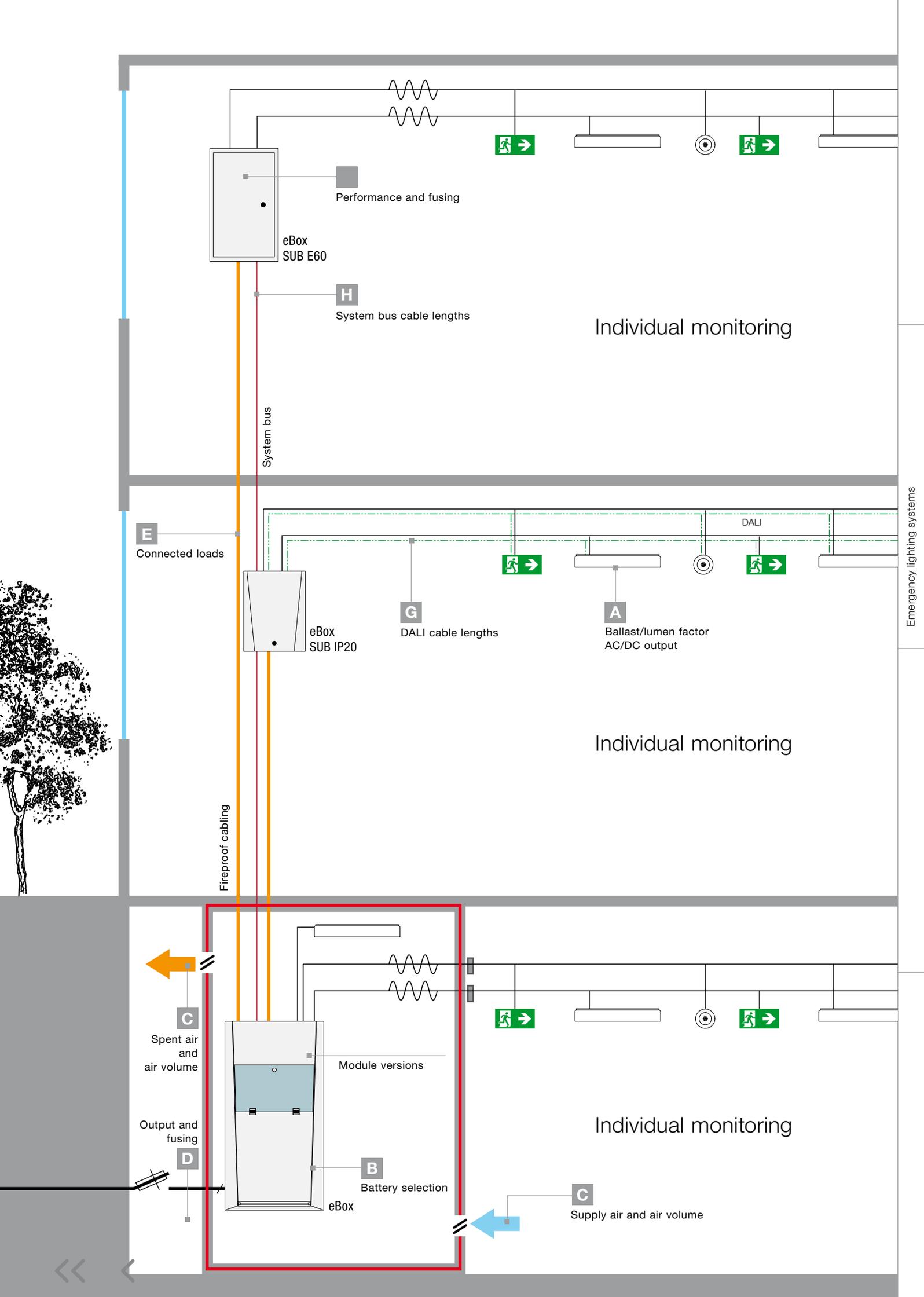


ONLITE central eBox system planning

Step by step towards the perfect lighting solution

For a targeted way of procedure in emergency lighting design, the entire planning process is divided into several steps. Numerous optimum solutions have already been worked out using this tried-and-tested way of procedure.

- 1 Photometric calculations regarding escape routes
- 2 For each emergency luminaire, the ballast lumen factor (BFL) is defined as basic output in percent
- 3 Planning of escape sign luminaire positioning
- 4 Definition of circuits in each fire compartment
- 5 Summing up the outputs (P_{AC} and P_{DC}) of all emergency and escape sign luminaires per output circuit
- 6 Determination of battery capacity according to duration of power supply



Performance and fusing

eBox
SUB E60

H
System bus cable lengths

Individual monitoring

System bus

E
Connected loads

eBox
SUB IP20

G
DALI cable lengths

A
Ballast/lumen factor
AC/DC output

DALI

Individual monitoring

Fireproof of cabling

C
Spent air and
air volume

Module versions

D
Output and
fusing

B
Battery selection

eBox

Individual monitoring

C
Supply air and air volume

Emergency lighting systems

ONLITE central eBox system planning

Step by step towards the perfect lighting solution

A Ballast/lumen factor table

Light source	Wattage	AC power [100%] 230 V / 50 Hz [VA]	DC [W]	DC [W]	Control gear/luminaire									
Emergency lighting level			5 %	10 %	15 %	20 %	30 %	40 %	50 %	60 %	70 %	100 %		
LED	LED	3.7		1.6	1.6	1.7	1.7	1.8	1.9		2.4	3.2	EMpowerX LED NSI / ARTSIGN C EW	
		3.7		1.7	1.8	1.8	1.9	2.0	2.1		2.4	3.2	EMpowerX LED NSI / ARTSIGN C ED	
		5.0		3.5	3.6	3.7	3.8	4.0	4.1		4.3	4.5	EMpowerX LED NSI / COMSIGN 150	
		5.0		3.4	3.5	3.6	3.7	3.8	4.0		4.2	4.5	EMpowerX LED NSI / CROSSIGN 110	
		5.0		3.4	3.5	3.6	3.7	3.8	4.0		4.2	4.5	EMpowerX LED NSI / CROSSIGN 110 ERI	
		6.0		4.4	4.5	4.6	4.7	4.8	5.0		5.2	5.5	EMpowerX LED NSI / CROSSIGN 160	
		6.5		4.4	4.5	4.6	4.7	4.8	5.0		5.2	5.5	EMpowerX LED NSI / CROSSIGN 160 ERI	
		11.0		8.1	8.4	8.7	9.1	9.4	9.7		10.1	10.5	EMpowerX LED NSI / CUBESIGN 210	
		2.9		1.6	1.6	1.7	1.7	1.8	1.9		2.1	2.4	EMpowerX LED NSI / ERGOSIGN LED	
		6.0		2.0	2.2	2.4	2.8	3.2	3.6		4.5	5.5	EMpowerX LED NSI / ECOSIGN LED IP 65	
		11.0		8.3	8.4	8.5	8.6	8.8	9.0		9.5	10.5	EMpowerX LED NSI / FREESIGN 300	
		5.0		3.5	3.6	3.7	3.8	4.0	4.1		4.3	4.5	EMpowerX LED NSI / PURESIGN 150	
		5.0		3.5	3.6	3.7	3.8	4.0	4.1		4.3	4.5	EMpowerX LED NSI / PURESIGN 150 ERI	
		5.4		1.5	1.7	1.9	2.3	2.6	3.0		3.8	4.9	EMpowerX LED NSI / RESCLITE C	
		8.2		2.1	2.4	2.7	3.3	4.0	4.6		5.8	7.7	EMpowerX LED NSI / SQUARESIGN 300	
	T16	14 W	6.9	7.9	8.6	9.2	10.3	12.0	13.0	14.1	15.3	17.4	PCA 1 x 14/24 T5 EXCEL one4all Ip xitec II	
		2/14 W	33.0	11.1	13.4	15.2	16.3	18.8	21.4	23.7	25.6	28.1	32.6	PCA 2 x 14/24 T5 EXCEL one4all Ip xitec II
		21 W	24.8	7.9	9.3	10.5	11.3	13.7	15.9	17.7	19.3	20.8	24.3	PCA 1 x 21/39 T5 EXCEL one4all Ip xitec II
		2/21 W	47.2	12.9	15.7	17.8	20.0	24.5	28.7	32.3	35.4	39.1	46.7	PCA 2 x 21/39 T5 EXCEL one4all Ip xitec II
		28 W	32.5	9.4	11.6	13.3	14.9	17.5	20.4	23.0	25.0	27.2	32.0	PCA 1 x 28/54 T5 EXCEL one4all Ip xitec II
		2/28 W	61.8	15.4	19.3	22.9	26.3	31.6	37.6	42.6	46.9	51.4	61.4	PCA 2 x 28/54 T5 EXCEL one4all Ip xitec II
		35 W	41.0	10.5	12.9	16.3	17.1	21.0	24.9	27.6	30.4	33.3	40.4	PCA 1 x 35/49/80 T5 EXCEL one4all Ip xitec II
		2/35 W	77.4	16.6	21.6	26.0	29.6	37.7	45.2	51.1	56.7	62.6	77.1	PCA 2 x 35/49 T5 EXCEL one4all Ip xitec II
		24 W	27.5	8.7	9.8	11.9	13.0	15.4	17.7	19.8	21.1	22.8	27.1	PCA 1 x 14/24 T5 EXCEL one4all Ip xitec II
		2/24 W	51.7	14.8	18.1	21.2	24.4	28.9	33.4	37.6	41.1	44.7	51.5	PCA 2 x 14/24 T5 EXCEL one4all Ip xitec II
		39 W	43.8	10.3	13.8	16.2	18.1	22.9	26.7	33.3	33.0	35.8	43.8	PCA 1 x 21/39 T5 EXCEL one4all Ip xitec II
		2/39 W	86.5	17.5	23.7	28.9	34.0	42.5	51.4	58.1	64.5	71.6	86.3	PCA 2 x 21/39 T5 EXCEL one4all Ip xitec II
		49 W	55.6	12.4	16.4	20.2	23.2	28.5	33.5	38.0	42.1	46.3	55.1	PCA 1 x 35/49/80 T5 EXCEL one4all Ip xitec II
		2/49 W	110.3	20.6	28.2	35.9	41.6	52.5	62.8	73.0	80.9	89.6	110.2	PCA 2 x 35/49 T5 EXCEL one4all Ip xitec II
		54 W	57.5	14.8	19.3	23.1	26.7	31.8	36.8	41.2	44.2	48.4	57.0	PCA 1 x 28/54 T5 EXCEL one4all Ip xitec II
		2/54 W	117.0	26.3	35.0	43.5	49.8	61.7	73.8	82.2	90.5	99.8	117.1	PCA 2 x 28/54 T5 EXCEL one4all Ip xitec II
		80 W	90.9	17.3	24.7	30.9	36.3	45.0	53.9	61.3	67.8	74.4	90.6	PCA 1 x 35/49/80 T5 EXCEL one4all Ip xitec II
2/80 W	178.3	31.8	45.6	59.7	70.1	90.1	106.3	122.1	134.5	147.9	178.0	PCA 2 x 80 T5 EXCEL one4all Ip xitec II		
	T26	1/18 W	19.8	7.1	8.1	9.2	10.3	11.6	13.6	15.0	15.9	17.3	19.4	PCA 1 x 18 T8 EXCEL one4all Ip xitec II
		2/18 W	37.3	11.8	14.3	16.4	18.1	21.4	24.4	27.2	29.3	32.2	37.0	PCA 2 x 18 T8 EXCEL one4all Ip xitec II
		1/36 W	37.6	9.0	11.1	13.2	15.3	19.0	22.5	25.1	27.4	32.8	35.3	PCA 1 x 36 T8 EXCEL one4all Ip xitec II
		2/36 W	69.8	16.5	21.2	25.1	28.6	35.6	42.0	48.1	53.2	58.6	69.6	PCA 2 x 36 T8 EXCEL one4all Ip xitec II
		1/58 W	54.3	12.1	16.1	19.5	22.3	27.6	32.7	36.9	41.1	44.6	54.1	PCA 1 x 58 T8 EXCEL one4all Ip xitec II
		2/58 W	107.8	21.2	28.5	35.8	42.0	52.1	63.0	72.4	79.4	88.0	108.5	PCA 2 x 58 T8 EXCEL one4all Ip xitec II
			TC-L/F	1/18 W	18.0	7.9	8.2	9.7	10.7	11.6	12.9	14.2	14.9	15.7
2/18 W	33.4			13.1	15.1	16.0	18.0	20.9	24.0	25.9	28.0	30.6	33.1	PCA 2 x 18/24 TCL EXCEL one4all c xitec II
1/24 W	24.9			8.4	10.1	11.5	12.2	14.4	16.5	18.2	19.3	20.8	24.6	PCA 1 x 18/24 TCL EXCEL one4all c xitec II
2/24 W	47.3			13.0	16.5	19.6	21.9	26.4	30.3	34.0	37.0	40.6	47.1	PCA 2 x 18/24 TCL EXCEL one4all c xitec II
1/36 W	36.4			10.3	12.4	14.9	16.4	19.7	23.2	25.5	27.7	30.0	36.3	PCA 1 x 21/39 T5 EXCEL one4all Ip xitec II
2/36 W	71.0			16.1	21.2	25.8	30.0	36.6	43.6	48.6	53.8	59.5	70.9	PCA 2 x 21/39 T5 EXCEL one4all Ip xitec II
1/40 W	46.0			8.8	12.0	14.9	17.4	22.2	26.6	30.5	33.6	37.0	46.1	PCA 1 x 21/39 T5 EXCEL one4all Ip xitec II
2/40 W	88.7			17.3	23.4	29.4	34.6	43.8	53.1	60.4	67.1	74.5	89.0	PCA 2 x 21/39 T5 EXCEL one4all Ip xitec II
1/55 W	64.9			14.5	19.5	24.0	27.0	33.3	39.2	44.9	49.0	53.7	64.4	PCA 1 x 35/49/80 T5 EXCEL one4all Ip xitec II
2/55 W	125.6			25.8	35.8	44.7	51.2	64.4	75.8	86.1	94.8	105.2	125.4	PCA 2 x 80 T5 EXCEL one4all Ip xitec II
	TC-S/E	1/11 W	15.7	6.4	7.5	8.2	8.6	9.8	11.2	12.4	13.0	14.4	15.3	PCA 1 x 11/13 TC EXCEL one4all xitec II
		2/11 W	27.6	8.7	10.4	11.7	13.1	15.3	17.3	19.6	21.1	23.0	27.0	PCA 2 x 11/13 TC EXCEL one4all xitec II
	TC-D/E	1/13 W	15.5	6.4	7.5	7.8	8.5	10.2	11.2	11.9	13.1	13.9	15.0	PCA 1 x 11/13 TC EXCEL one4all xitec II
		2/13 W	28.2	9.1	11.0	12.6	14.0	16.3	18.1	21.0	22.3	24.1	27.8	PCA 2 x 11/13 TC EXCEL one4all xitec II
	TC-D/T	1/18 W	20.7	7.0	8.5	10.0	11.1	12.8	14.2	15.6	16.8	18.0	20.2	PCA 1 x 18 TC EXCEL one4all xitec II
		2/18 W	38.9	11.1	13.6	16.4	18.1	22.2	25.3	28.2	30.7	33.5	37.5	PCA 2 x 18 TC EXCEL one4all xitec II
		1/26 W	28.4	8.7	10.5	12.4	13.6	15.9	18.5	20.4	22.2	24.0	27.7	PCA 1 x 26-57 TC EXCEL one4all xitec II
		2/26 W	53.1	14.1	17.4	21.0	23.7	28.5	33.0	37.4	40.7	45.0	52.7	PCA 2 x 26/32/42 TC EXCEL one4all xitec II
	TC-T/E	1/32 W	33.6	9.4	12.1	14.1	16.0	19.0	22.3	25.0	26.4	29.0	32.4	PCA 1 x 26-57 TC EXCEL one4all xitec II
		2/32 W	58.4	14.5	19.7	24.5	28.1	34.4	40.0	44.6	47.9	51.7	58.3	PCA 2 x 26/32/42 TC EXCEL one4all xitec II
		1/42 W	40.7	10.4	13.0	15.6	18.5	22.9	27.7	31.4	35.0	37.1	44.9	PCA 1 x 26-57 TC EXCEL one4all xitec II
		2/42 W	75.4	15.4	21.8	27.4	31.8	40.5	48.5	55.6	60.1	65.2	74.5	PCA 2 x 26/32/42 TC EXCEL one4all xitec II
	TC-DD	1/28 W	31.0	8.9	10.6	12.6	13.9	16.6	18.9	21.6	23.6	25.8	30.5	PCA 1 x 28 TC-DD EXCEL one4all xitec II

B Specify battery size (OGiV block batteries)

Battery type	System voltage	Max. DC system power including 25% ageing reserve as prescribed in the standard (EN 50 171 - 6.12.4)							Dimensions L x W x H [mm]	Block weight [kg]	Pole connection
		[V]	8 h	5 h	3 h	2 h	1 h	0.5 h			
ONLITE central eBox ACCU SET PB/12	7.2 Ah	216	131	178	274	381	656	1085	151 x 65 x 94	45	MP6.3
	12 Ah	216	233	324	487	640	1215	1993	151 x 98 x 95	70	MP6.3
	24 Ah	216	479	697	1040	1490	2730	3750	166 x 175 x 125	162	MP6.3

C Determination of ventilation conditions

Battery type	Battery capacity [Ah] C ₁₀ at 1.8 V per cell	Battery capacity [Ah]		
		7.2 Ah	12 Ah	24 Ah
Required air volume flow rate in case of artificial ventilation	[m ³ /h]	0.04	0.07	0.13
Cross-section of ventilation slots in case of natural ventilation	[cm ²]	1.06	1.81	3.63

Data for ventilation of battery rooms according to EN 50272-2 (for I gas 1 = charge retention).

D Connected loads of ONLITE central eBox MS1200 and MS1700

	Total installed load [VA] ²⁾
	5500
Fusing	[A] 25
Load-break switch / preliminary fuse ¹⁾	Single phase
Breaking capacity AC	[min]
Italy	4.5 kA
Europe	6.0 kA
Breaking capacity AC	AC 50 kA at 400 V DC 8 kA at 250 V (DC)
Max. AC short-circuit current I _{sc}	< 1kA

¹⁾ Line safety switch type "C" or wire fuse NeoZed D02

²⁾ In case of completion with 30 circuits and maximum output power per circuit

E Connected loads of the ONLITE central eBox SUB station

	Connected loads
Max. number of external SUB stations	4
Fusing per SUB station	8 A
Max. output of one SUB distribution cabinet	1000 VA / 750 W
Recommended cable ¹⁾	5-strand fireproof (L / N / PE / B+B-) ²⁾
Cross-section	Depending on cable length (max. 4 mm ²)

¹⁾ Each SUB station must be wired in a linear manner to the ONLITE central eBox MS 1200 and MS1700, no "looping through" admitted.

²⁾ If instead of one feed line two separate lines are used, two 3-pole cables must be used. Output power per circuit

F Outgoing circuits ONLITE central eBox

	Outgoing circuits
Max. number of double circuit modules	15 (30 circuits in total) ¹⁾
Fusing per circuit module [A]	3.15 ²⁾
Max. output of one circuit	420 VA / 200 W
Recommended cable ¹⁾	5-strand for OCM NDA (L / N / PE / DA / DA) 3-strand for OCM NSI and OCM NPS (L / N / PE)
Cross-section	Depending on cable length (max. 2.5 mm ²)

¹⁾ 3 double circuits per SUB station

²⁾ 60% load allowed under the standard corresponding to 1.9 A

G DALI cable lengths

	DALI control circuit cable length [m]	DALI control circuit cable length [m]			
		300	200	150	100
Recommended Cu cross-section with standard wiring	[mm ²]	1.5	1.0	0.8	0.5

Where possible, choose a standard Cu cross-section of 1.5 mm² in order to obtain optimum expansion.

H System bus cable lengths

Cable cross-section	[mm ²]	Maximum length of system bus line [m]	
		350	500
		2 x 0.75	2 x 1.5



ONLITE central CPS

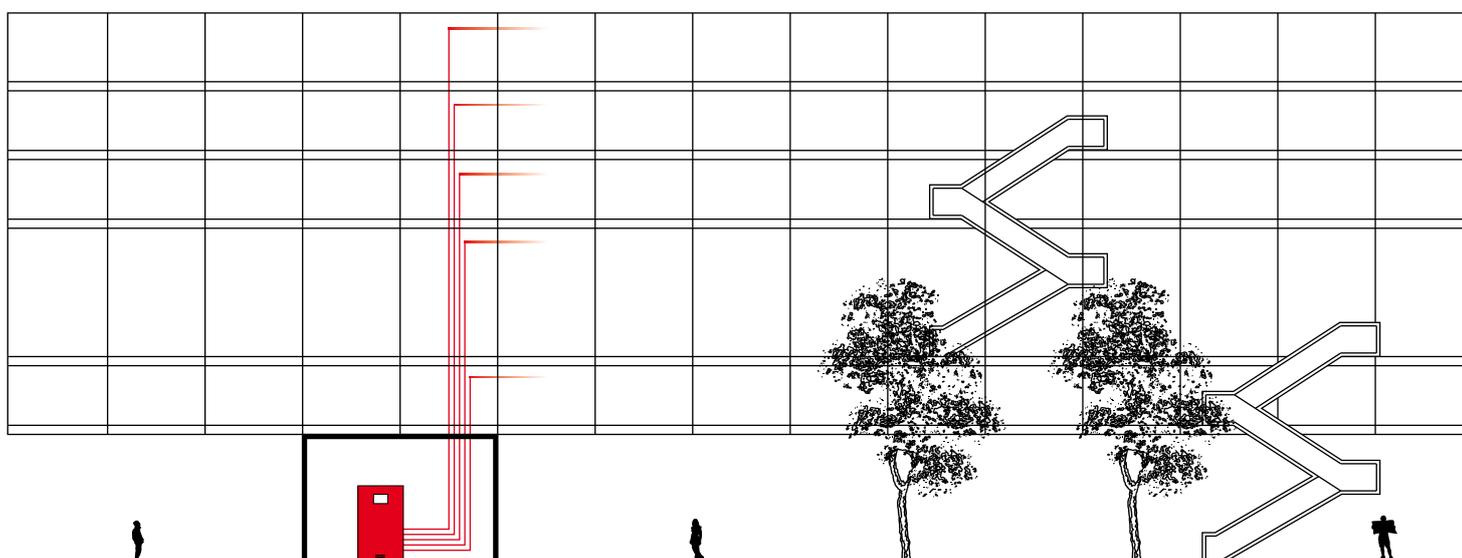
Project-specific customised, networked central battery system



CPS = Central Power Supply System
(acc. to EN 50171).
Can be used with no output limits

Less effort on design

- Manageable, clearly structured product range
- Integration into lighting management with resulting significant technical and economic benefits
- Project-specific solutions thanks to modular system
- Full functionality as standard, renders additional software and modules superfluous



Perfect design freedom

- Individual switching mode for each luminaire, even within a single circuit
- Combination of monitoring of circuits and individual luminaires in one system
- Simple project planning thanks to competent design support and extensive design tools

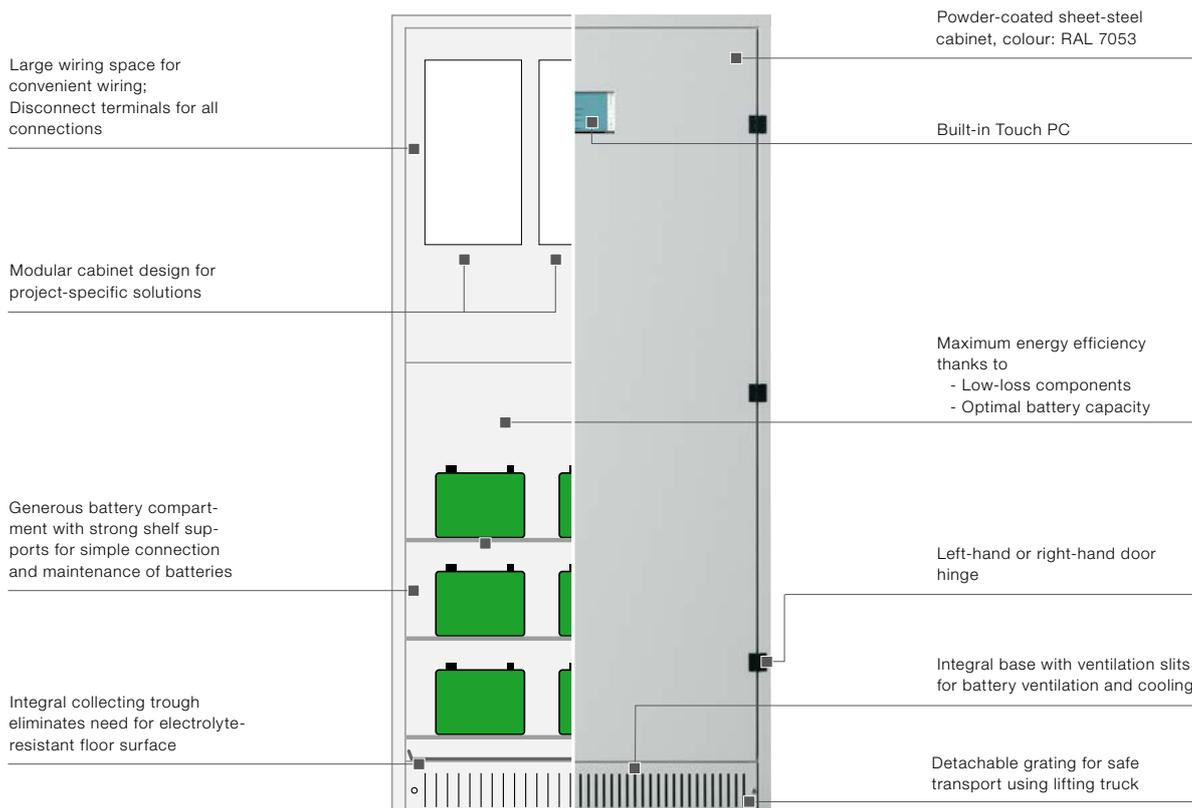
Convenience at every level

- Simple, easily understandable operation using removable Touch PC
- System information can be downloaded via the Internet by using Web browser-based software
- Function and annual system tests are run and documented completely automatically

ONLITE central CPS

Tailor-made emergency lighting system

Every central battery system is designed project-specifically on the basis of a modular system. This produces solutions which are optimised in terms of the cost and functionality of the system. The modular design of ONLITE central CPS guarantees a tailor-made solution for any project and a significantly optimised cost/functionality ratio.



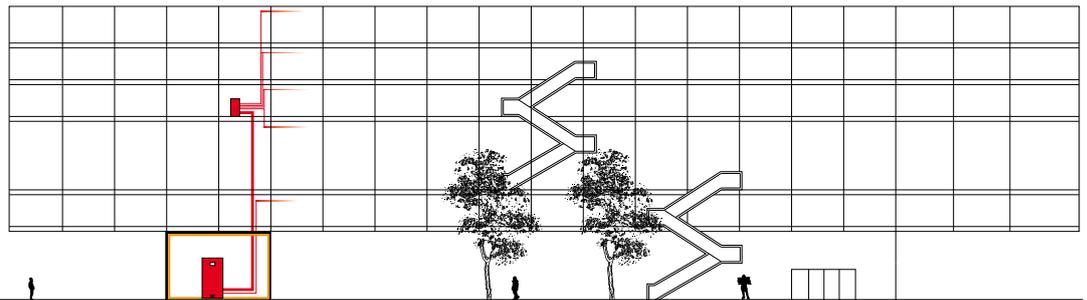


ONLITE central CPS

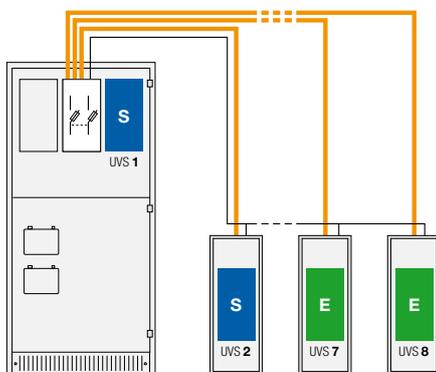
Examples of compact station and main station applications

CPS K

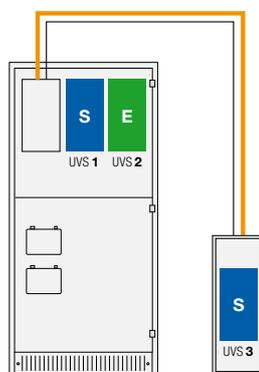
Compact station



Besides the internal controller and circuit modules, a battery with a capacity of up to 75 Ah is accommodated in the main distribution unit of the emergency lighting power supply. In addition, outgoing fuse protection for external sub-distribution boards of the emergency lighting system can be catered for. It is preferable to use compact or combined stations in medium-sized buildings.



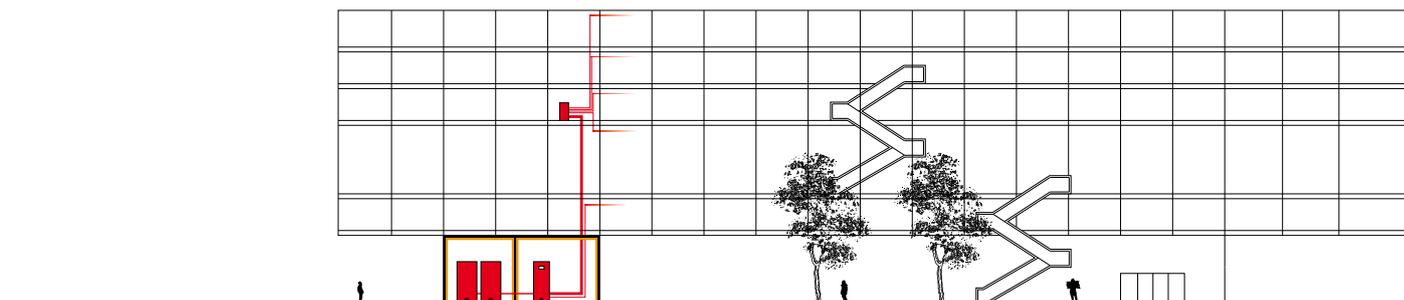
- 7 Ah
- 12 Ah
- 17 Ah
- 24 Ah
- 28 Ah
- 33 Ah
- 45 Ah
- 55 Ah
- 75 Ah



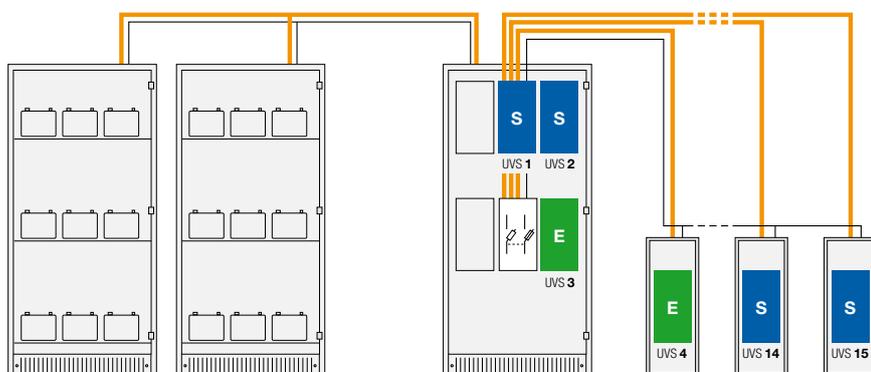
- 7 Ah
- 12 Ah
- 17 Ah
- 24 Ah
- 28 Ah
- 33 Ah
- 45 Ah
- 55 Ah
- 75 Ah

Each internal or external substation (UVS) can be selected to monitor circuits (S) or individual luminaires (E).

CPS H Main station



The main station contains the internal controller and, optionally, internal circuit modules and outgoing circuits to the substations of the emergency lighting system. Compared with the CPS K, batteries are accommodated in external battery cabinets (output per cabinet up to 150 Ah; no more than 2 cabinets) or on a battery rack. Main stations like these with a set of external batteries are used in large buildings. Several self-contained systems can be used where higher outputs are required (> 25–30 kW).



Each internal or external substation (UVS) can be selected to monitor circuits (**S**) or individual luminaires (**E**).

ONLITE central CPS

System overview



CPS K
Compact station



CPS H
Main station

Circuits (max. 20 luminaires)	1) Up to 40 internal + 20 external 2) Up to 20 internal + 140 external	up to 60 internal + 240 external
Maximum number of luminaires	1) 1200 * 2) 3200 *	6000 *
Mains connection	5-pole 3 x 400 V	5-pole 3 x 400 V
Mains operation		
Total AC output power	7–30 kVA	30 kVA
Max. AC output power per circuit	1300 VA	1300 VA
AC output power per 20 circuits (per UVS)	4700 VA	4700 VA
Emergency operation		
Total DC output power	7.6 kW [1 h]* 3.3 kW [3 h]*	22.7 kW [1 h]* 10 kW [3 h]*
Max. DC output power per circuit	1300 W	1300 W
DC output power per 20 circuits (per UVS)	4700 W	4700 W
Back-up time 1–8 h	18x 12 V / 7–75 Ah accommodated in combined cabinet	18x 12 V up to 200 Ah accommodated in separate battery cabinet or rack

* Including 25 % reserve capacity (battery ageing)

Every ONLITE central CPS offers full functionality in order to comprehensively meet the requirements placed on a central battery system using as few components as possible. No additional software or modules are needed. There is no need to fit any separate components in the luminaire because every DALI luminaire can be used as an emergency luminaire which can be individually monitored and controlled. This also reduces effort on commissioning, inspecting and maintaining the system. A large removable Touch PC is the core of the system. For example, it enables straightforward commissioning by one person or neatly laid out, easily-manageable visualisation of the system's status.

Features

- Power in emergency mode 1–30 kW
- Up to 300 circuits, each for 20 emergency luminaires (The maximum numbers are exclusively based on the technical specifications. All locally applicable laws, standards and regulations must be taken into account)
- Up to 12 external substations per main station (CPS H)
- Mixed operation within one circuit is possible
- Up to 240 (optional) freely assignable switching inputs
- Web browser-based user interface



CPS U E60
Fire-resistant substation



CPS U E00
Substation

	20	20
	4700 VA 1300 VA 4700 VA	4700 VA 1300 VA 4700 VA

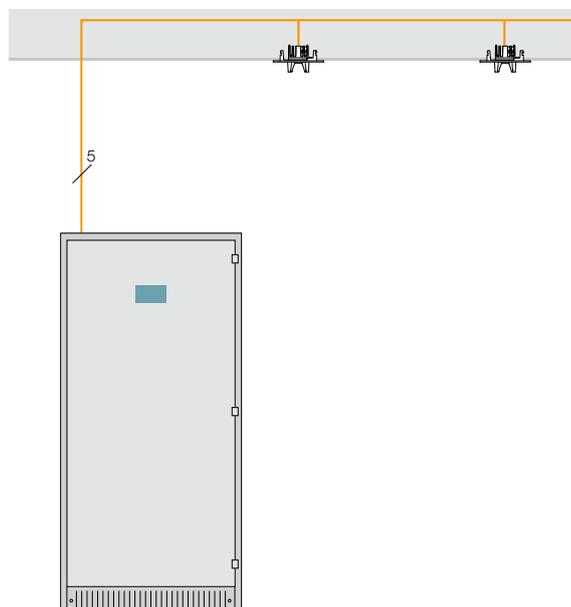
ONLITE central CPS

Every DALI standard luminaire is also an emergency luminaire

ONLITE central CPS and
LED systems



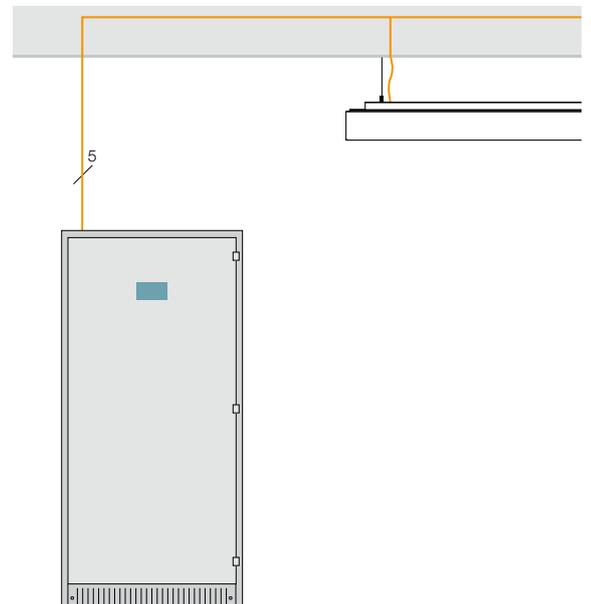
Combining ONLITE central CPS with innovative LED emergency and escape sign luminaires offer distinct advantages. Using efficient LED luminaires that provide light distribution which is perfectly matched to emergency lighting needs keeps the installed load to a bare minimum. This means that required battery capacities can be smaller and supply systems can be significantly more compact. Communication between the CPS system and LED luminaires is based on DALI and therefore supports individual control and monitoring of every luminaire. Emergency lighting can be operated completely independently of the general lighting system.



ONLITE central CPS and general lighting system



Every DALI standard luminaire can be used as an emergency luminaire which can be individually controlled and monitored. No additional modules need to be fitted to achieve this, and functionality of the general lighting system is completely preserved. This simplifies project planning, reduces both costs and effort and makes choosing luminaires easy. Delivery times for emergency luminaires are short because they are luminaires in the standard product range.



ONLITE central CPS

A system control centre for operating, displaying and networking

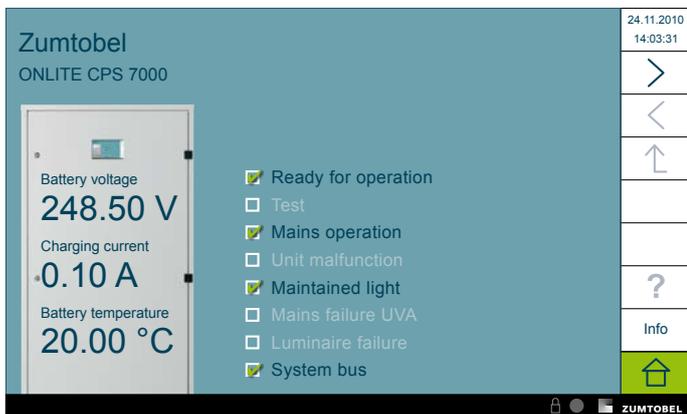
ONLITE central CPS sets new standards when it comes to monitoring and display of emergency lighting systems. A 7" LED-backlit WVGA widescreen (16:9) colour Touch PC displays the entire installation. Touch and control: It takes no more than three touches to access individual luminaire data and status displays. All events are recorded for at least three years on a built-in SD card as a test log book.

Ethernet – WLAN – Internet

Networkability comes as standard

Every ONLITE central CPS module can be visualised via Ethernet using a web-based browser without the need for any additional software. The system can therefore be managed remotely from any PC.





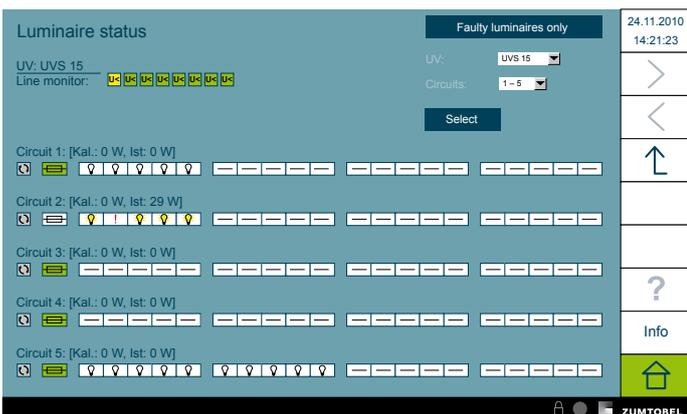
System status

Neatly laid out status display, includes system voltage and battery temperature among other parameters. Faults are displayed in plain language and indicated visually.



Details of substations

Up to 7 substations can be displayed on the central Touch PC. This simplifies the job of the person tasked with maintenance and helps them keep an overview of the entire installation.



Details of luminaire status

Each individual luminaire is displayed at the control centre. As well as visual error display, further additional information is made available. The Touch PC provides details of the location, type of light source, wattage, method of connection and address of every individual luminaire.



ONLITE central CPS

Plug-in and network Portable Touch PC for commissioning

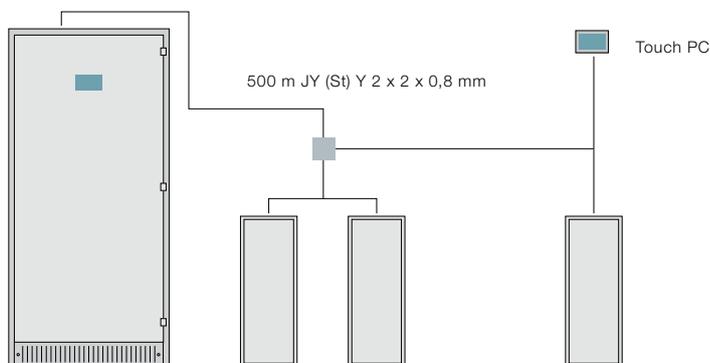
Besides performing major system documentation and display tasks, the removable unit with LED backlighting also offers substantial benefits when commissioning the ONLITE central CPS system. This operating and control unit plugs not only into the control centre but also into every substation – for local commissioning, for example. Every cabinet is equipped with a four-pole plug connector for this purpose. Two conductors carry the 24 V power supply and two carry data.



The large number of ports is indicative of the high quality of the unit's internal components: the Touch PC has no rotating parts and is therefore extremely rugged; the Windows CE Pro operating system is pre-installed and it also has an SD memory card with a storage capacity of 512 MB. A single cable is used for the 24 V supply voltage and the control bus.

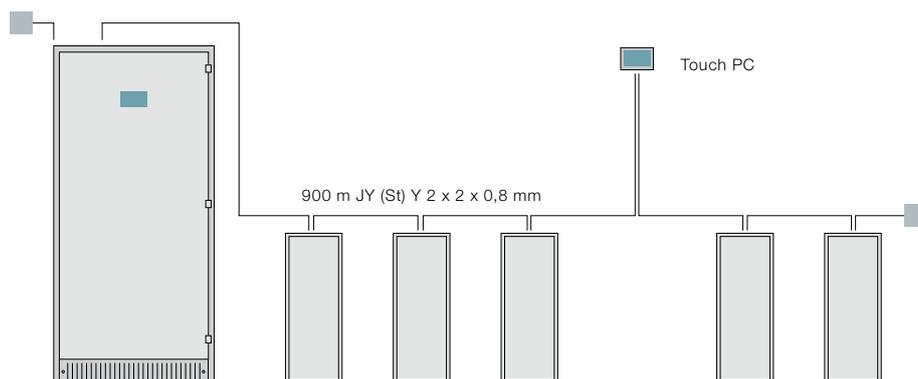
Free Topology

Total system control (bus line) cable lengths of 500 m can be realised using the standard "free topology" version. Up to 320 m between any nodes.



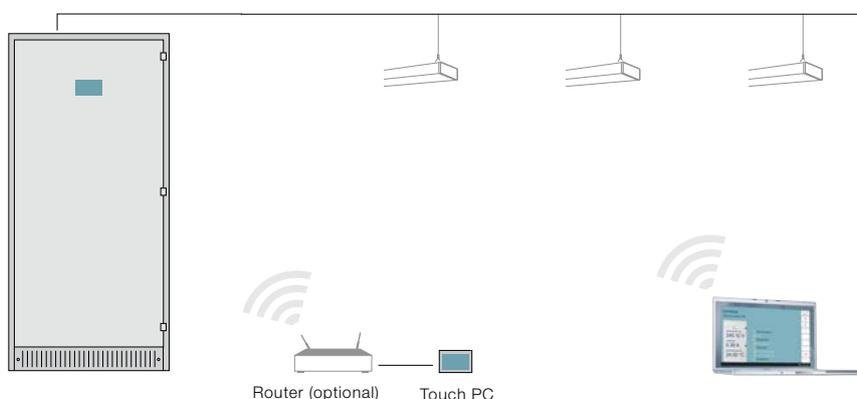
Line Topology

The length of the system control cable can be increased to as much as 900 m by locating terminating resistors (■) correctly.



Luminaire addressing using wireless network

All system information is available anywhere on the network through Web services. As well as querying the system status, emergency luminaires can also be visually addressed quickly and easily. A combination of Powerline and WLAN link provides the best possible freedom of action. Using repeaters eliminates the possibility of any gaps in radio coverage. This "one-man" commissioning saves both time and money.



Monitoring of circuits

Circuit monitoring is used primarily in extensive buildings which have consistent lighting concepts. Industrial factory buildings and parking garages are typical examples of such buildings. Even a circuit error of 10 % can be localised in final circuits which incorporate luminaires of similar wattages.

- Straightforward design and commissioning
- Use of standard luminaires with electronic ballasts
- Lower investment costs but restricted functionality

Individual monitoring of luminaires

Individual monitoring is preferred in buildings such as shopping malls, hospitals or museums where there are a variety of lighting systems. Addressable, switchable and dimmable standard luminaires with DALI ballasts are used. Here too, it is possible to set the desired emergency power level without any additional components. Besides conventional DC emergency operation, the built-in security function also trips in AC emergency mode. This guarantees consistent functionality, even if the control cable is interrupted or short-circuited.

- Maximum safety
- Lower operating costs
- Maximum functionality

Monitoring of circuits using LUXMATE LITENET

Using LUXMATE LITENET, the leading lighting system which is used in large office buildings in particular, allows the user to dispense with a large proportion of ONLITE central CPS hardware and software for luminaire monitoring. A system with circuit monitoring is sufficient; individual monitoring of luminaires is taken care of by LITENET. This way, every emergency luminaire need only be addressed once at the time of commissioning.

- Maximum convenience and flexibility
- Many ONLITE central CPS functions are already incorporated in the LUXMATE LITENET lighting management system
- Easy commissioning



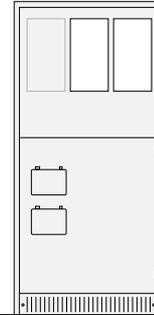
ONLITE central CPS

Variable monitoring – anything is possible

Monitoring of circuits or monitoring of individual luminaires may be useful, depending on the particular application. ONLITE central CPS caters for specific circumstances, every station can be designed with both methods of connection. The modular system design even makes it possible to mix modules with circuit monitoring and modules with individual monitoring of luminaires within one installation. One to three bays are available for monitoring modules depending on the design of the relevant distribution cabinet. These bays can either be fitted with modules for circuit-wide monitoring or individual monitoring of luminaires. Every module can handle 1 to 20 circuits.

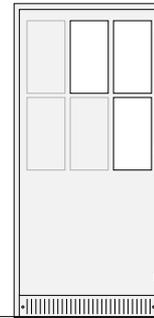
	S	E
	Module for circuit monitoring	Module for individual monitoring luminaires
Circuits	1–20	1–20
Number of luminaires*	1–400	1–400
Max. power (W)	4700	4700
Max. power per circuit (W)	1300	1300
Fuse per circuit (A)	10	10
Outgoing terminals (mm ²)	4	4
Digital potential-free inputs	8–16	8–16

* The maximum numbers are exclusively based on the technical specifications. All locally applicable laws, standards and regulations must be taken into account



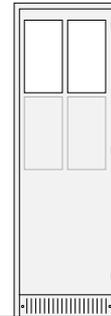
CPS K

Each of the two bays can be fitted with a module for circuit monitoring or individual monitoring of luminaires.



CPS H
850 mm

Each of the three bays can be fitted with a sub-distribution board for circuit monitoring or individual monitoring of luminaires.



CPS H
600 mm

Each of the two bays sections can be fitted with a sub-distribution board for circuit monitoring or individual monitoring of luminaires.



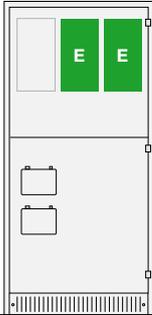
CPS U E60

The sub-distribution board can be equipped either for circuit monitoring or individual monitoring of luminaires.

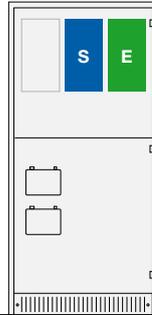


CPS U E00

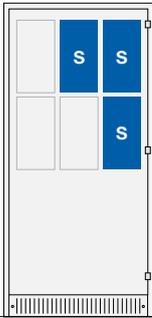
The sub-distribution board can be equipped either for circuit monitoring or individual monitoring of luminaires.



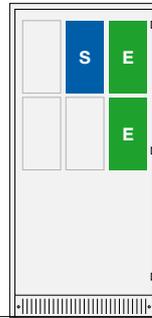
Example
Individual luminaires monitored



Example
Combination



Example
Circuit monitored



Example
Combination



Example
Circuit monitored



Example
Combination



Example
Individual luminaires monitored



Example
Circuit monitored

ONLITE central CPS

Large choice of powerful block batteries

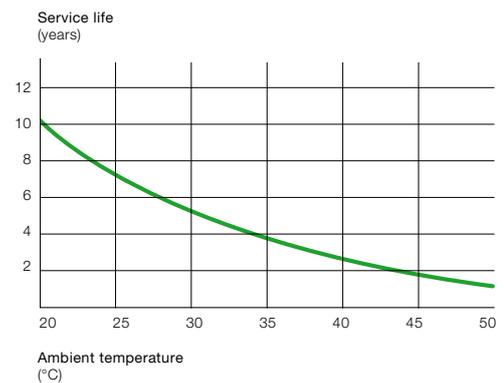


According to EN 50 272 specifications, reliable OGiV block batteries are required for stationary applications.

Sealed, rechargeable batteries with a high discharge rate, these batteries are built to the very latest standards. With a design life of over 10 years at 20 °C, they meet EUROBAT requirements for batteries classified as “high performance”. The accessories required for battery installation are supplied.

EUROBAT “high performance” class

with design life of more than 10 years at 20 °C



Battery selection table

Battery type	Battery block-voltage V	Capacity (Ah) 25 °C, 1.8 V / Cell			Dimensions L x B x H mm	Weight kg	Terminal
		8 h	3 h	1 h			
12-7.2	12	6.7	5.3	4.8	151 x 65 x 94	2.5	Faston
12-12	12	11.5	9.0	8.2	151 x 65 x 95	3.9	Faston
12-17	12	16.4	15.6	13.8	181 x 77 x 167	5.9	M5
12-24	12	23.2	21.7	17.4	166 x 175 x 125	9.0	M5
12-28	12	27.3	24.9	20.9	165 x 125 x 175	9.7	M5
12-33	12	32.0	27.7	22.9	195 x 130 x 168	11.7	M6
12-45	12	42.9	36.3	29.0	197 x 165 x 170	14.8	M6
12-55	12	54.1	47.0	38.7	229 x 138 x 208	18.0	M6
12-75	12	70.3	57.9	46.2	258 x 166 x 215	24.0	M6
12-80	12	76.9	65.1	53.9	350 x 167 x 179	26.2	M6
12-90	12	86.7	72.6	60.5	306 x 169 x 214	30.0	M6
12-100	12	98.2	86.1	70.0	330 x 171 x 222	33.0	M6
12-120	12	118.1	104.5	81.5	410 x 176 x 277	37.7	M8
12-134	12	138.0	123.6	100.9	341 x 173 x 283	44.8	M8
12-150	12	146.1	124.9	130.0	485 x 172 x 240	46.4	M8
12-190	12	175.0	124.0	130.0	522 x 238 x 223	64.8	M8
12-200	12	198.1	175.3	143.7	522 x 238 x 223	67.0	M8

Trickle-charge voltage: 2.3 V/cell

Temperature compensation: ± 20 mV / 1 °C

Technical data

- Grid-type plates with high discharge rate (lead-calcium)
- Absorptive glass mat technology
- Capacity from 7 to 200 Ah in 12 V blocks
- Housing and lid made of ABS
- Recessed battery terminals with brass core, internally screwable
- Conforms to DIN EN 60896-21:2004
- Extremely low gassing
- Low self discharge
- 100 % recyclable
- Not classed as dangerous goods for transport by road, rail, air or inland waterway
- Maintenance free
- Store at 20 °C in a cool, clean place; maximum storage period without equalising charge: 3 months

Notes on battery planning and installation

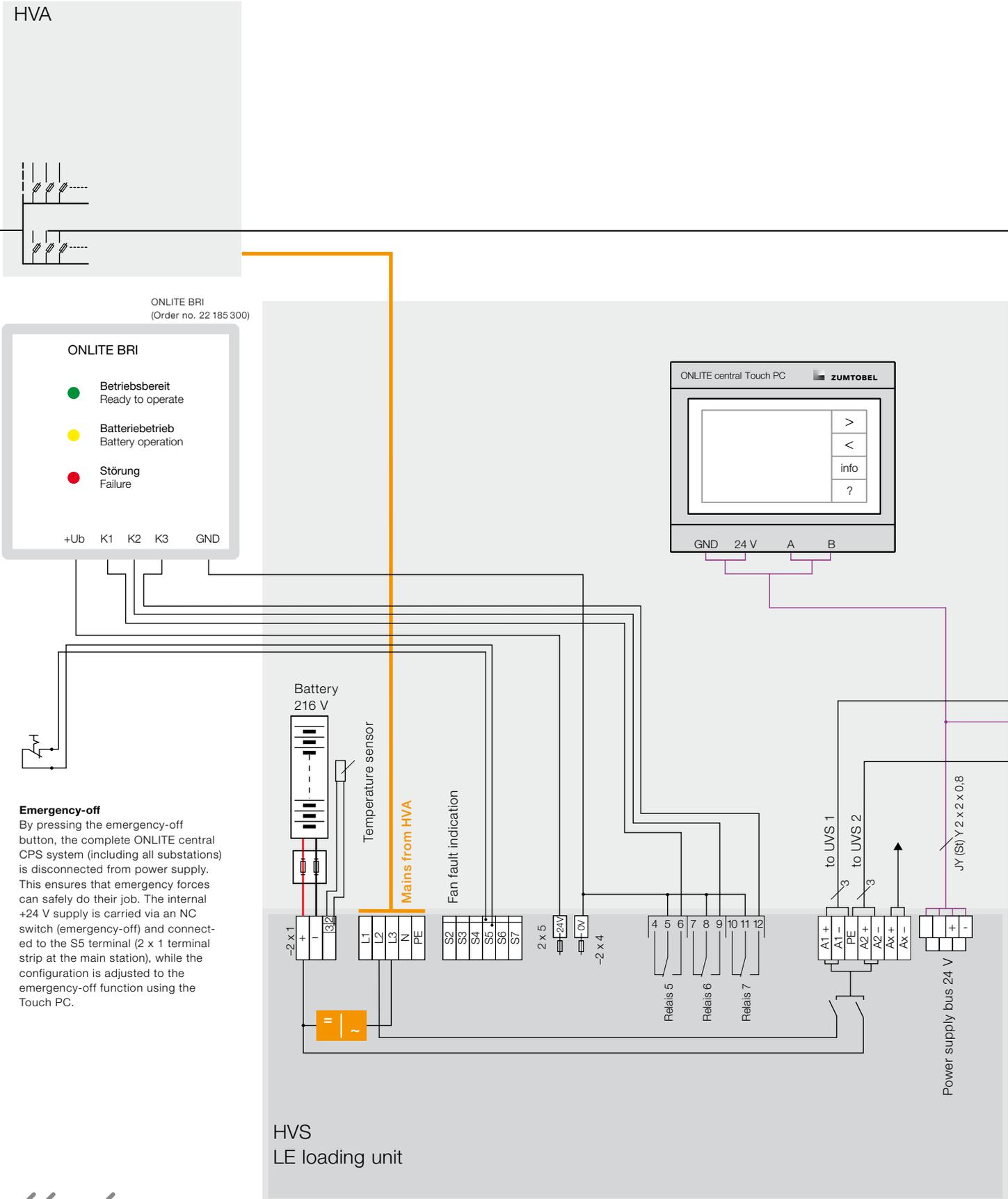
Battery temperature must be maintained between +5 °C min. and +30 °C max. in order to obtain full battery performance. A nominal temperature of 20 °C is ideal. The temperature difference between cells or blocks in a battery bank must not exceed 5 °C.

An electrolyte-resistant floor surface in the room where batteries are installed and acid-resistant troughs in cabinets can be dispensed with because leakproof batteries according to DIN EN 50272-2:2001 are used.



ONLITE central CPS

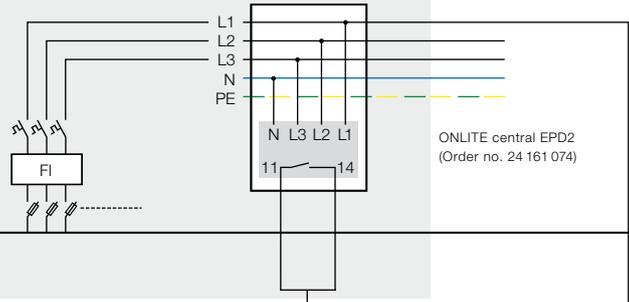
System topology



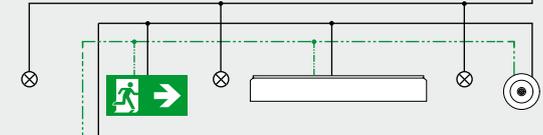
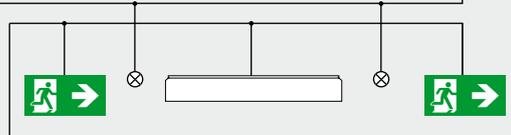
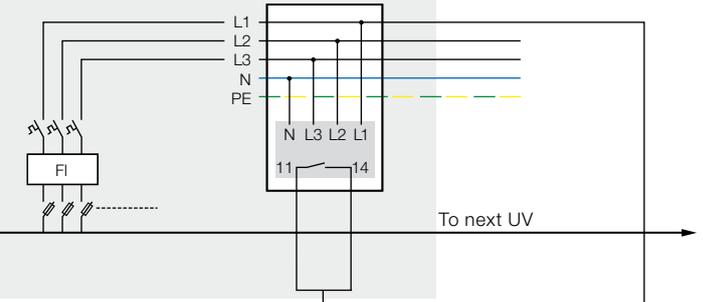
Emergency-off
 By pressing the emergency-off button, the complete ONLITE central CPS system (including all substations) is disconnected from power supply. This ensures that emergency forces can safely do their job. The internal +24 V supply is carried via an NC switch (emergency-off) and connected to the S5 terminal (2 x 1 terminal strip at the main station), while the configuration is adjusted to the emergency-off function using the Touch PC.



UVA 1

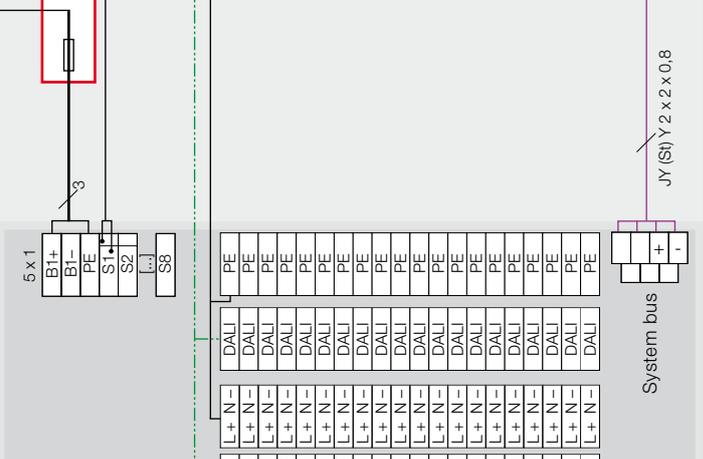
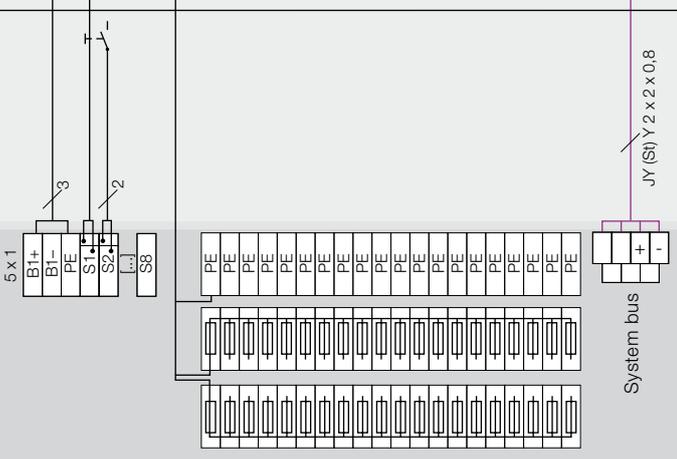


UVA 2



Data and Power

DALI

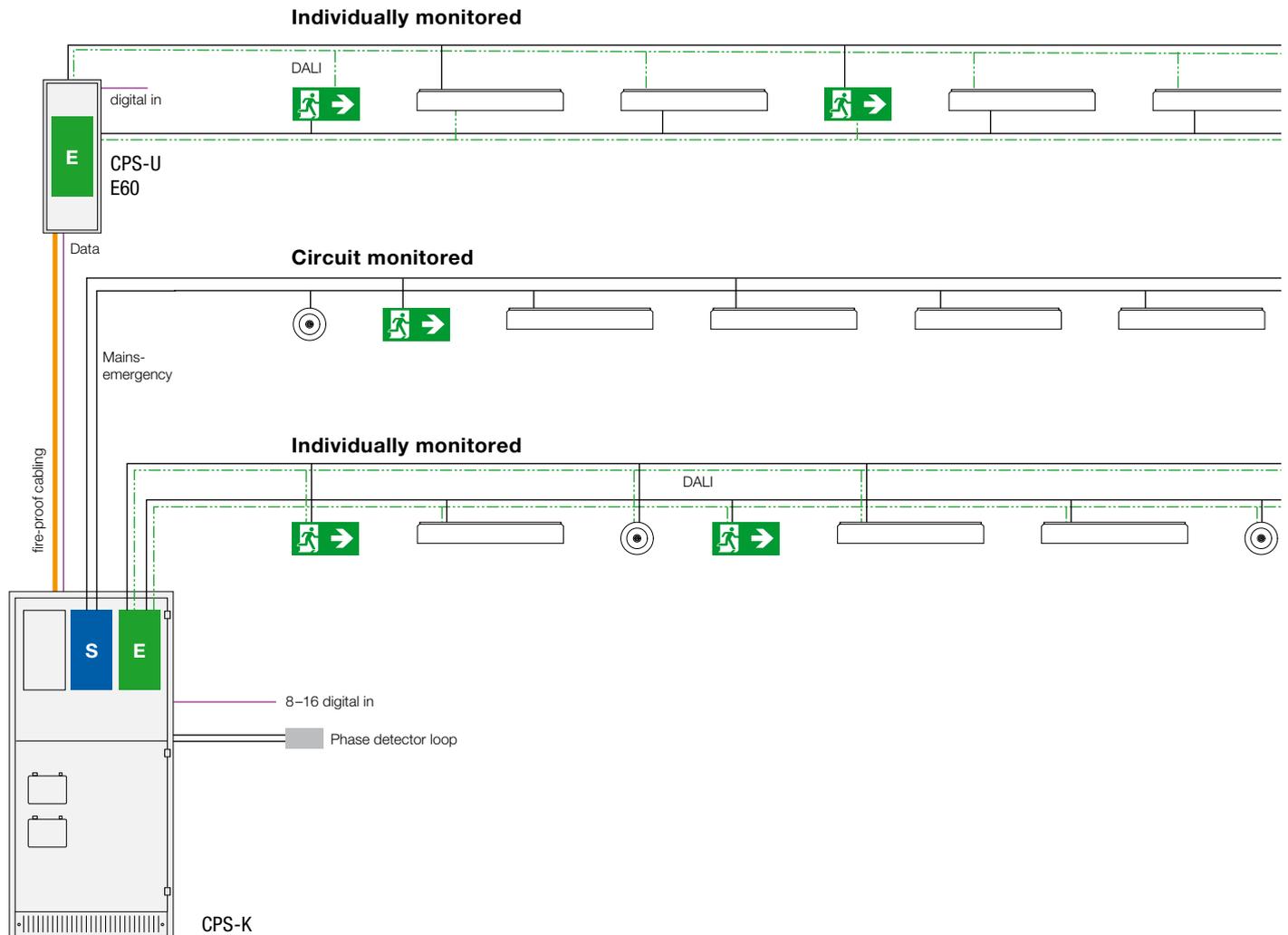


UVS 1 circuit monitoring

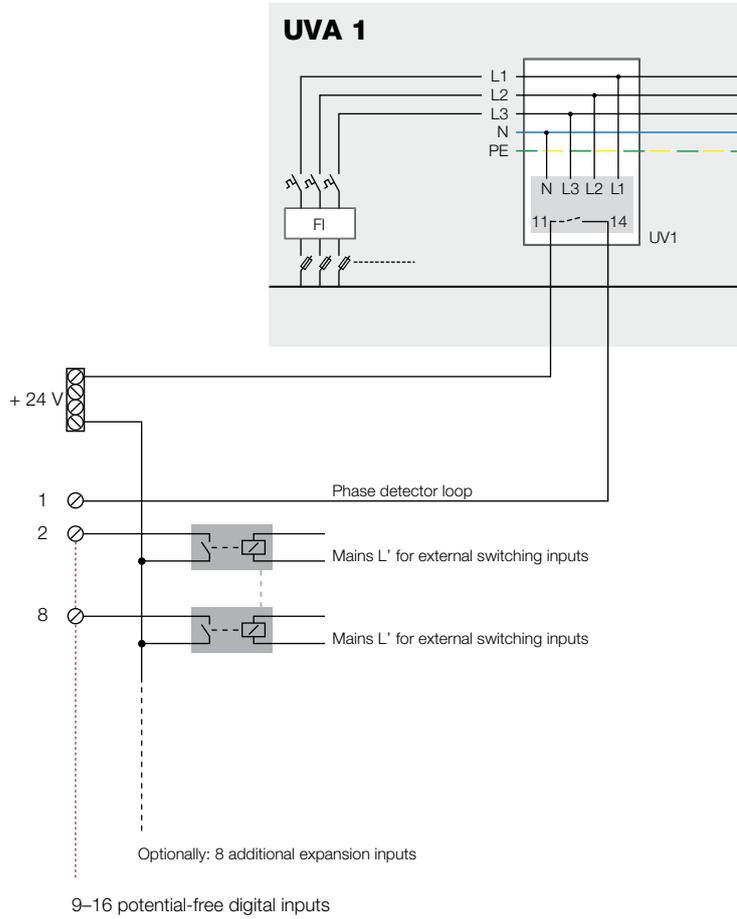
UVS 2 individual monitoring

ONLITE central CPS Design tips

Emergency lighting as an isolated solution



Regardless of circuit monitoring or individual monitoring of luminaires, individual emergency and escape sign luminaires are switched by potential-free inputs or permanently used as maintained or non-maintained luminaires. Built-in functions such as staircase lighting or switching by variable timers are available.



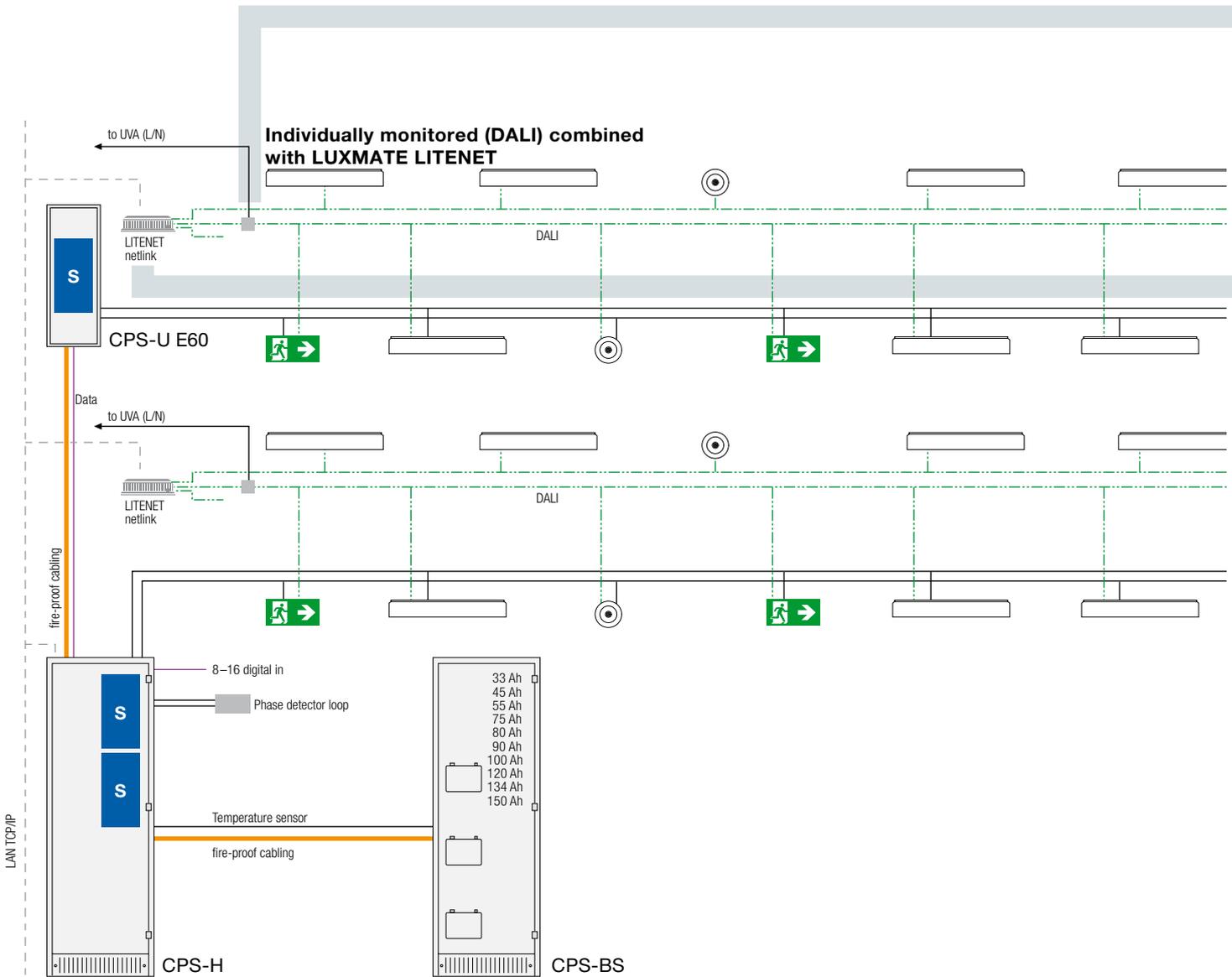
Potential-free inputs

Every ONLITE central CPS main station and substation provides eight digital potential-free inputs as standard. The first input (S1) is designed as a critical circuit and, as a rule, is used for the phase detector loop. Several phase detector loops or other potential-free switching inputs can be parameterised. Each of the switching inputs is connected to the internal 24 V reference potential. Eight other potential-free inputs are optionally available for each ONLITE central CPS station.

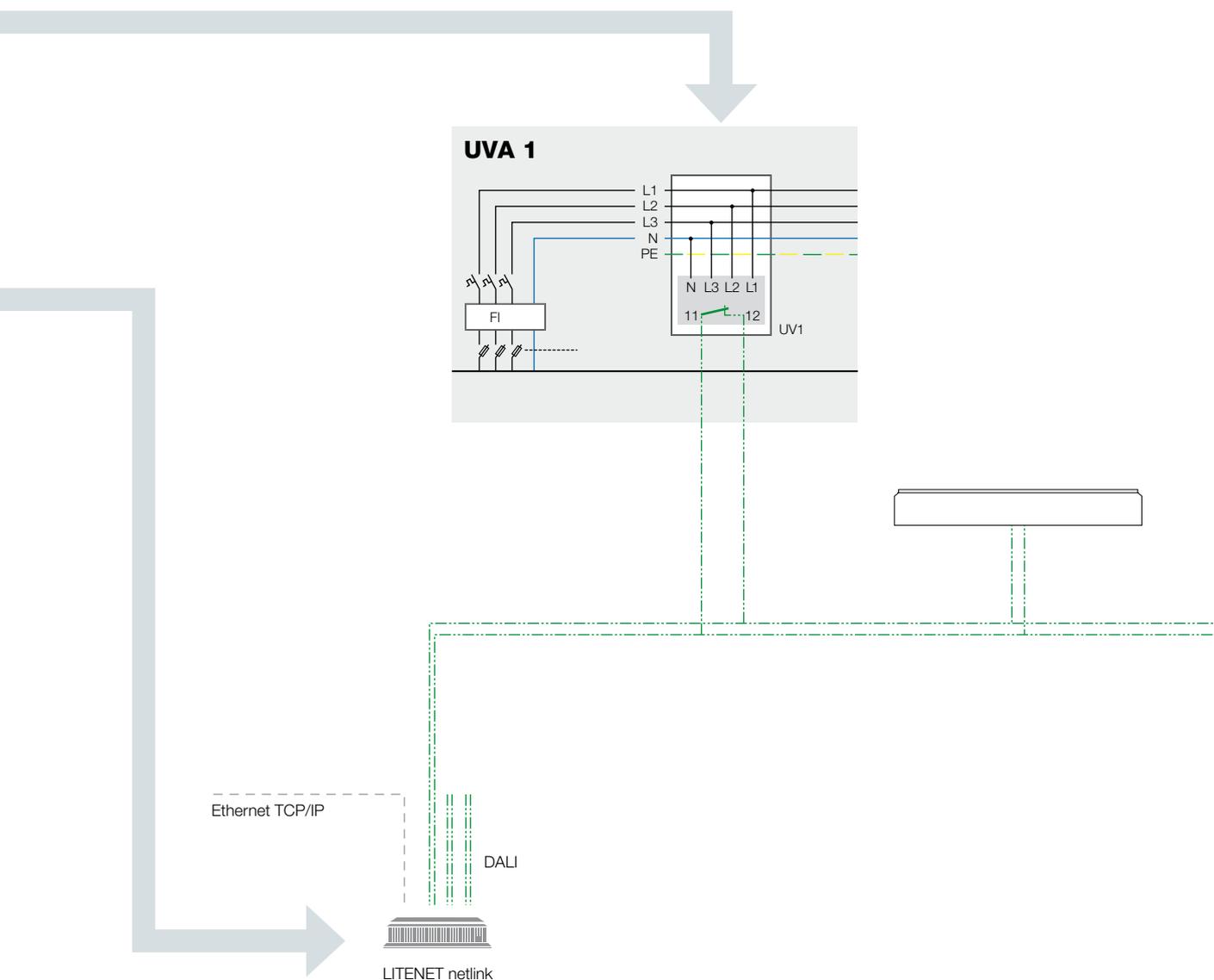


ONLITE central CPS Design tips

Emergency lighting with LUXMATE LITENET



This system topology is based on an ONLITE central CPS with circuit monitored modules (S). All luminaires (general and emergency luminaires) are metallically separated from one or more common DALI chains and networked to the LAN hardware (Ethernet, TCP/IP) via the LITENET netlink. All status information is available via the LUXMATE LITENET network. The ONLITE central CPS operates completely independently, and autonomously forwards messages concerning battery and charger to LUXMATE LITENET via the Ethernet network.



Phase detector also monitors

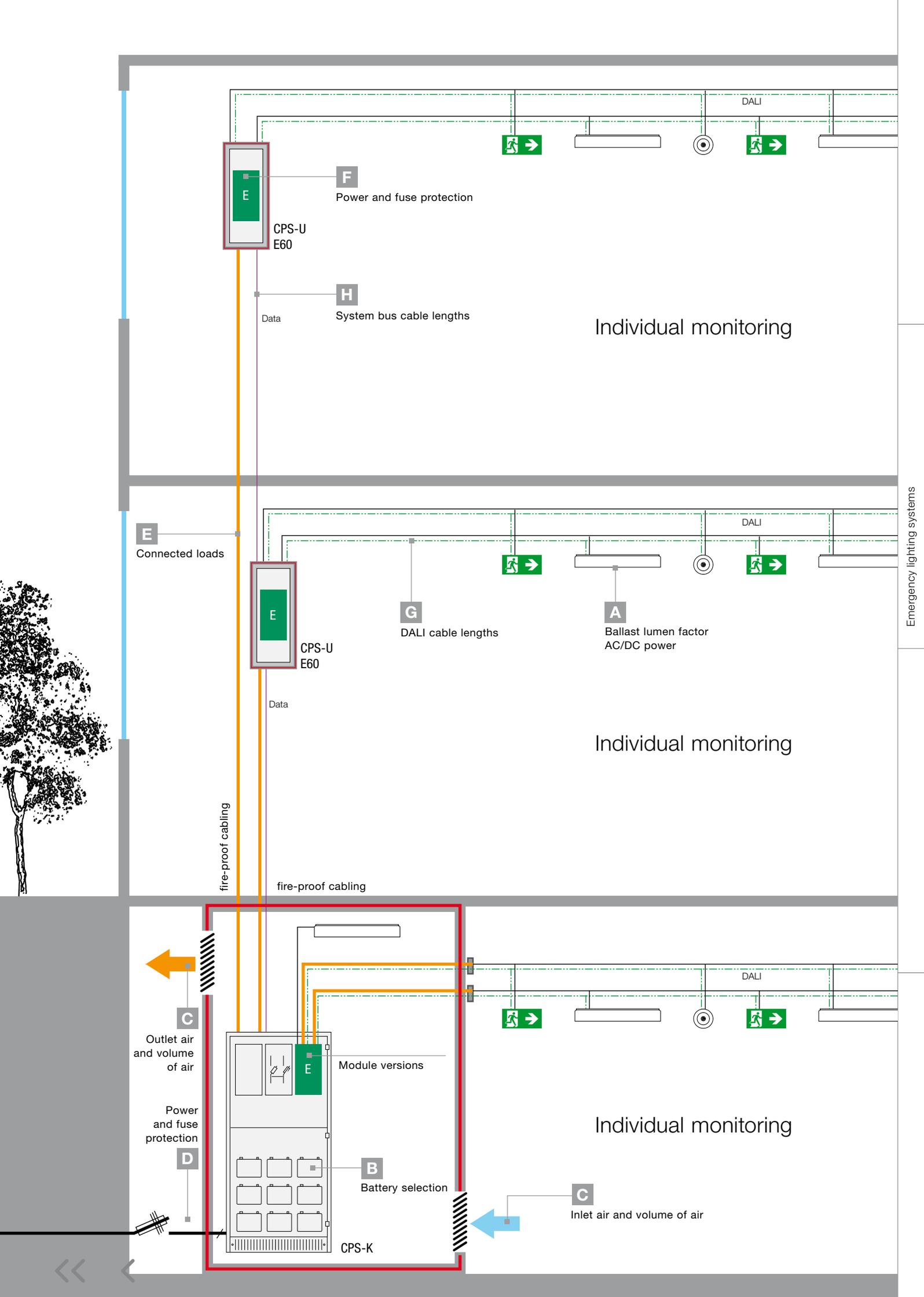
A standard built-in phase detector monitors the general power supply system. If this power supply fails, the DALI circuit in question is short-circuited. All DALI emergency and escape sign luminaires change to system-failure level and immediately switch to the configured value. This security function is executed without communicating with the emergency luminaires.

ONLITE central CPS System project planning

Step-by-step guide to the perfect lighting solution

The entire design process is broken down into individual design steps in order to ensure a target-oriented approach when designing emergency lighting. This is a tried-and-tested strategy for arriving at the optimum solution.

- 1 Do photometric calculations for escape routes
- 2 Define percentage Ballast Lumen Factor (BLF) as basis for output of each emergency luminaire
- 3 Plan the locations of escape sign luminaires
- 4 Define the circuits in each fire compartment
- 5 Add up power output (P_{AC} and P_{DC}) of all emergency and escape sign luminaires for each output circuit
- 6 Determine battery capacity depending on duration of battery-powered operation



fire-proof cabling

fire-proof cabling

E
Connected loads

E
CPS-U
E60

Data

G
DALI cable lengths

A
Ballast lumen factor
AC/DC power

Individual monitoring

C
Outlet air
and volume
of air

Power
and fuse
protection

D

E
Module versions

B
Battery selection

CPS-K

C
Inlet air
and volume
of air

Individual monitoring

F
Power and fuse protection

CPS-U
E60

H
System bus cable lengths

Data

Individual monitoring

Emergency lighting systems

ONLITE central CPS System project planning

Step-by-step guide to the perfect lighting solution

A Ballast/lumen factor table

Light source	Wattage	AC power [100%] 230 V/50 Hz [VA]	DC [W]	DC [W]	Control gear / luminaire									
Emergency lighting level			5 %	10 %	15 %	20 %	30 %	40 %	50 %	60 %	70 %	100 %		
LED	LED	3,2		1,6	1,6	1,7	1,7	1,8	1,9		2,4	3,2	EMpowerX LED DALI / ARTSIGN C EW	
		3,2		1,7	1,8	1,8	1,9	2,0	2,1		2,4	3,2	EMpowerX LED DALI / ARTSIGN C ED	
		4,5		3,5	3,6	3,7	3,8	4,0	4,1		4,3	4,5	EMpowerX LED DALI / COMSIGN 150	
		4,5		3,4	3,5	3,6	3,7	3,8	4,0		4,2	4,5	EMpowerX LED DALI / CROSSIGN 110	
		4,5		3,4	3,5	3,6	3,7	3,8	4,0		4,2	4,5	EMpowerX LED DALI / CROSSIGN 110 ERI	
		5,5		4,4	4,5	4,6	4,7	4,8	5,0		5,2	5,5	EMpowerX LED DALI / CROSSIGN 160	
		6,0		4,4	4,5	4,6	4,7	4,8	5,0		5,2	5,5	EMpowerX LED DALI / CROSSIGN 160 ERI	
		10,5		8,1	8,4	8,7	9,1	9,4	9,7		10,1	10,5	EMpowerX LED DALI / CUBESIGN 210	
		2,4		1,6	1,6	1,7	1,7	1,8	1,9		2,1	2,4	EMpowerX LED DALI / ERGOSIGN LED	
		5,5		2,0	2,2	2,4	2,8	3,2	3,6		4,5	5,5	EMpowerX LED DALI / ECOSIGN LED IP 65	
		10,5		8,3	8,4	8,5	8,6	8,8	9,0		9,5	10,5	EMpowerX LED DALI / FREESIGN 300	
		4,5		3,5	3,6	3,7	3,8	4,0	4,1		4,3	4,5	EMpowerX LED DALI / PURESIGN 150	
		4,5		3,5	3,6	3,7	3,8	4,0	4,1		4,3	4,5	EMpowerX LED DALI / PURESIGN 150 ERI	
		4,9		1,5	1,7	1,9	2,3	2,6	3,0		3,8	4,9	EMpowerX LED DALI / RESCLITE	
		7,7		2,1	2,4	2,7	3,3	4,0	4,6		5,8	7,7	EMpowerX LED DALI / SQUARESIGN 300	
	T16	14 W	17,4	6,9	7,9	8,6	9,2	10,3	12,0	13,0	14,1	15,3	17,4	PCA 1 x 14/24 T5 EXCEL one4all Ip xitec II
		2/14 W	32,5	11,1	13,4	15,2	16,3	18,8	21,4	23,7	25,6	28,1	32,6	PCA 2 x 14/24 T5 EXCEL one4all Ip xitec II
		21 W	24,3	7,9	9,3	10,5	11,3	13,7	15,9	17,7	19,3	20,8	24,3	PCA 1 x 21/39 T5 EXCEL one4all Ip xitec II
		2/21 W	46,7	12,9	15,7	17,8	20,0	24,5	28,7	32,3	35,4	39,1	46,7	PCA 2 x 21/39 T5 EXCEL one4all Ip xitec II
		28 W	32,0	9,4	11,6	13,3	14,9	17,5	20,4	23,0	25,0	27,2	32,0	PCA 1 x 28/54 T5 EXCEL one4all Ip xitec II
		2/28 W	61,3	15,4	19,3	22,9	26,3	31,6	37,6	42,6	46,9	51,4	61,4	PCA 2 x 28/54 T5 EXCEL one4all Ip xitec II
		35 W	40,5	10,5	12,9	16,3	17,1	21,0	24,9	27,6	30,4	33,3	40,4	PCA 1 x 35/49/80 T5 EXCEL one4all Ip xitec II
		2/35 W	76,9	16,6	21,6	26,0	29,6	37,7	45,2	51,1	56,7	62,6	77,1	PCA 2 x 35/49 T5 EXCEL one4all Ip xitec II
		24 W	27,0	8,7	9,8	11,9	13,0	15,4	17,7	19,8	21,1	22,8	27,1	PCA 1 x 14/24 T5 EXCEL one4all Ip xitec II
		2/24 W	51,2	14,8	18,1	21,2	24,4	28,9	33,4	37,6	41,1	44,7	51,5	PCA 2 x 14/24 T5 EXCEL one4all Ip xitec II
		39 W	43,3	10,3	13,8	16,2	18,1	22,9	26,7	33,3	33,0	35,8	43,8	PCA 1 x 21/39 T5 EXCEL one4all Ip xitec II
		2/39 W	86,0	17,5	23,7	28,9	34,0	42,5	51,4	58,1	64,5	71,6	86,3	PCA 2 x 21/39 T5 EXCEL one4all Ip xitec II
		49 W	55,1	12,4	16,4	20,2	23,2	28,5	33,5	38,0	42,1	46,3	55,1	PCA 1 x 35/49/80 T5 EXCEL one4all Ip xitec II
		2/49 W	109,8	20,6	28,2	35,9	41,6	52,5	62,8	73,0	80,9	89,6	110,2	PCA 2 x 35/49 T5 EXCEL one4all Ip xitec II
		54 W	57,0	14,8	19,3	23,1	26,7	31,8	36,8	41,2	44,2	48,4	57,0	PCA 1 x 28/54 T5 EXCEL one4all Ip xitec II
		2/54 W	116,5	26,3	35,0	43,5	49,8	61,7	73,8	82,2	90,5	99,8	117,1	PCA 2 x 28/54 T5 EXCEL one4all Ip xitec II
		80 W	90,4	17,3	24,7	30,9	36,3	45,0	53,9	61,3	67,8	74,4	90,6	PCA 1 x 35/49/80 T5 EXCEL one4all Ip xitec II
2/80 W	177,8	31,8	45,6	59,7	70,1	90,1	106,3	122,1	134,5	147,9	178,0	PCA 2x80 T5 EXCEL one4all Ip xitec II		
	T26	1/18 W	19,3	7,1	8,1	9,2	10,3	11,6	13,6	15,0	15,9	17,3	19,4	PCA 1x18 T8 EXCEL one4all Ip xitec II
		2/18 W	36,8	11,8	14,3	16,4	18,1	21,4	24,4	27,2	29,3	32,2	37,0	PCA 2x18 T8 EXCEL one4all Ip xitec II
		1/36 W	37,1	9,0	11,1	13,2	15,3	19,0	22,5	25,1	27,4	32,8	35,3	PCA 1x36 T8 EXCEL one4all Ip xitec II
		2/36 W	69,3	16,5	21,2	25,1	28,6	35,6	42,0	48,1	53,2	58,6	69,6	PCA 2x36 T8 EXCEL one4all Ip xitec II
		1/58 W	53,8	12,1	16,1	19,5	22,3	27,6	32,7	36,9	41,1	44,6	54,1	PCA 1x58 T8 EXCEL one4all Ip xitec II
		2/58 W	107,3	21,2	28,5	35,8	42,0	52,1	63,0	72,4	79,4	88,0	108,5	PCA 2x58 T8 EXCEL one4all Ip xitec II
		1/18 W	17,5	7,9	8,2	9,7	10,7	11,6	12,9	14,2	14,9	15,7	17,7	PCA 1x18/24 TCL EXCEL one4all c xitec II
	TC-L/F	2/18 W	32,9	13,1	15,1	16,0	18,0	20,9	24,0	25,9	28,0	30,6	33,1	PCA 2x18/24 TCL EXCEL one4all c xitec II
		1/24 W	24,4	8,4	10,1	11,5	12,2	14,4	16,5	18,2	19,3	20,8	24,6	PCA 1x18/24 TCL EXCEL one4all c xitec II
		2/24 W	46,8	13,0	16,5	19,6	21,9	26,4	30,3	34,0	37,0	40,6	47,1	PCA 2x18/24 TCL EXCEL one4all c xitec II
		1/36 W	35,9	10,3	12,4	14,9	16,4	19,7	23,2	25,5	27,7	30,0	36,3	PCA 1x21/39 T5 EXCEL one4all Ip xitec II
		2/36 W	70,5	16,1	21,2	25,8	30,0	36,6	43,6	48,6	53,8	59,5	70,9	PCA 2x21/39 T5 EXCEL one4all Ip xitec II
		1/40 W	45,5	8,8	12,0	14,9	17,4	22,2	26,6	30,5	33,6	37,0	46,1	PCA 1x21/39 T5 EXCEL one4all Ip xitec II
		2/40 W	88,2	17,3	23,4	29,4	34,6	43,8	53,1	60,4	67,1	74,5	89,0	PCA 2x21/39 T5 EXCEL one4all Ip xitec II
		1/55 W	64,4	14,5	19,5	24,0	27,0	33,3	39,2	44,9	49,0	53,7	64,4	PCA 1x35/49/80 T5 EXCEL one4all Ip xitec II
2/55 W	125,1	25,8	35,8	44,7	51,2	64,4	75,8	86,1	94,8	105,2	125,4	PCA 2x80 T5 EXCEL one4all Ip xitec II		
	TC-S/E	1/11 W	15,2	6,4	7,5	8,2	8,6	9,8	11,2	12,4	13,0	14,4	15,3	PCA 1x11/13 TC EXCEL one4all xitec II
		2/11 W	27,1	8,7	10,4	11,7	13,1	15,3	17,3	19,6	21,1	23,0	27,0	PCA 2x11/13 TC EXCEL one4all xitec II
	TC-D/E	1/13 W	15,0	6,4	7,5	7,8	8,5	10,2	11,2	11,9	13,1	13,9	15,0	PCA 1x11/13 TC EXCEL one4all xitec II
		2/13 W	27,7	9,1	11,0	12,6	14,0	16,3	18,1	21,0	22,3	24,1	27,8	PCA 2x11/13 TC EXCEL one4all xitec II
	TC-D/T	1/18 W	20,2	7,0	8,5	10,0	11,1	12,8	14,2	15,6	16,8	18,0	20,2	PCA 1x18 TC EXCEL one4all xitec II
		2/18 W	38,4	11,1	13,6	16,4	18,1	22,2	25,3	28,2	30,7	33,5	37,5	PCA 2x18 TC EXCEL one4all xitec II
		1/26 W	27,9	8,7	10,5	12,4	13,6	15,9	18,5	20,4	22,2	24,0	27,7	PCA 1x26-57 TC EXCEL one4all xitec II
		2/26 W	52,6	14,1	17,4	21,0	23,7	28,5	33,0	37,4	40,7	45,0	52,7	PCA 2x26/32/42 TC EXCEL one4all xitec II
	TC-T/E	1/32 W	33,1	9,4	12,1	14,1	16,0	19,0	22,3	25,0	26,4	29,0	32,4	PCA 1x26-57 TC EXCEL one4all xitec II
		2/32 W	57,9	14,5	19,7	24,5	28,1	34,4	40,0	44,6	47,9	51,7	58,3	PCA 2x26/32/42 TC EXCEL one4all xitec II
		1/42 W	40,2	10,4	13,0	15,6	18,5	22,9	27,7	31,4	35,0	37,1	44,9	PCA 1x26-57 TC EXCEL one4all xitec II
		2/42 W	74,9	15,4	21,8	27,4	31,8	40,5	48,5	55,6	60,1	65,2	74,5	PCA 2x26/32/42 TC EXCEL one4all xitec II
	TC-DD	1/28 W	30,5	8,9	10,6	12,6	13,9	16,6	18,9	21,6	23,6	25,8	30,5	PCA 1x28 TC-DD EXCEL one4all xitec II

B Specify battery size (OGiV block batteries)

Battery set DC output in W		Battery power 25 °C bei 1.8 V per cell															
		7 Ah	12 Ah	17 Ah	24 Ah	28 Ah	33 Ah	45 Ah	55 Ah	75 Ah	80 Ah	90 Ah	100 Ah	120 Ah	150 Ah	190 Ah	200 Ah
216 V-System	1 h	864	1685	2786	3618	4417	4752	5886	7765	9558	10778	12312	14256	17064	21384	24840	28404
	3 h	454	662	1075	1415	1782	2030	2549	3262	4180	4644	5119	6145	7171	8888	10638	12528
	8 h	170	292	430	606	761	875	1166	1469	2009	2171	2387	2754	3316	4158	4730	5573

For optimum battery dimensioning, add 25% reserve capacity to these values (EN 50171 - 6.12.4).

Survey ventilation conditions

	Battery capacity C ₁₀ at 1.8 V per cell																
	7 Ah	12 Ah	17 Ah	24 Ah	28 Ah	33 Ah	45 Ah	55 Ah	75 Ah	80 Ah	90 Ah	100 Ah	120 Ah	134 Ah	150 Ah	190 Ah	200 Ah
Required air volume flow rate in case of artificial ventilation [m ³ /h]	0.04	0.07	0.09	0.13	0.15	0.18	0.24	0.30	0.41	0.43	0.49	0.54	0.65	0.72	0.81	1.03	1.08
Cross-sectional area of ventilation openings with natural ventilation [cm ²]	1.06	1.81	2.57	3.63	4.23	4.99	6.80	8.32	11.34	12.10	13.61	15.12	18.14	20.26	22.68	28.73	30.24

Data for ventilation of battery rooms according to EN 50272-2.

Power requirements of CPS system

		Total connected load [VA]			
		7000	14000	21000	30000
Fuse protection	[A]	80	80	80	100
Switch-disconnector-fuse	[A]	Single phase	Two phase	Three phase	Three phase

This table shows the maximum power requirements of a system. To provide for the permissible voltage drop of cable dimensioning and to protect the system, the total installed load actually calculated must be used.

E Power requirements of ONLITE central substation (E00/E60)

		Total installed load [VA]					
		1000	2000	3000	3500	4000	4300
Fuse protection, Neozed fuse	[A]	16	16	20	20	25	25
Calculation for 50 m cable length *	[mm ²]	4	10	10	16	16	16
Calculation for 100 m cable length *	[mm ²]	6	16	25	25	35	35

Dimension cable appropriately depending on distance and connecting cable to ensure permissible voltage drop.

* Depending on cable length
Indication = minimum cross-section

F ONLITE central CPS outgoing circuits

		Output power [W]		
		435	(Standardbestückung) 870	1380
Fuse protection	[A]	3.15	6.30	10.00
Outgoing circuit	[A]			
Max. current carrying capacity	[A]	1.90	3.80	6.00

Circuits are protected by 6.3 A fuses suitable for DC on both poles. 3 A, 15 A or 10 A fuses can be used for specific projects.

G DALI cable lengths

		DALI control circuit cable length [m]			
		300	200	150	100
Recommended Cu cross-section with standard wiring	[mm ²]	1.5	1.0	0.8	0.5

Where possible, choose a standard Cu cross-section of 1.5 mm² in order to obtain optimum expansion.

H System bus cable lengths

		DATA bus cable length [m]	
		(standard equipment) 500	900
Line topology	JY (S) Y		2 x 2 x 0.8 mm
Free topology *	JY (S) Y	2 x 2 x 0.8 mm	

* Free topology is recommended, system bus need not be adapted for this.





ONLITE Components and technology

194 ONLITE LEDs



196 ONLITE batteries



200 ONLITE control gear



ONLITE components

LEDs



Starting from the bottom of the luminaires, latest-generation LED lighting strips illuminate the escape signs with maximum uniformity and efficiency.

Energy-efficient

Zumtobel uses the latest LED technology available in the market, achieving a luminaire efficiency of more than 100 lumens per watt. Modern LED escape sign luminaires make do with power of only 4.5 W, a RESCLITE emergency luminaire requires no more than approx. 5 W. The ERI spot built into the escape sign luminaire requires only 0.5 W per LED. Compared with a traditionally used 8 W fluorescent lamp, around 40 % of energy can be saved using LED technology.

Binning and luminance

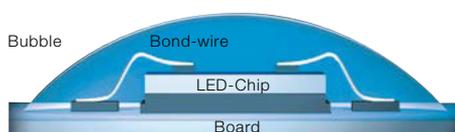
For each luminaire, Zumtobel uses only one bin – a class of identical lighting intensity levels. Owing to this quality feature and the use of appropriate lighting technology, uniformity as specified in the EN 1838 standard is exceeded by far. Superior quality of lighting technology is a top priority for Zumtobel: the products feature an average luminance level of 200 cd/m² as used in Germany, and of 500 cd/m² for the white range, thus significantly exceeding the average level of 2 cd/m² required in most markets.

Electrostatic sensitive devices (ESD)

Like all electronic components, LEDs are sensitive to electrostatic discharge. During production, therefore, particular emphasis is put on avoiding any detrimental electrostatic impact on the light emitting diodes.

Light distribution

LEDs are highly efficient point light sources. Yet, as an expert in lighting technology, Zumtobel develops escape signs that are lit in a perfectly uniform manner. Special optics distribute pinpoint lighting efficiently and uniformly, saving energy and ensuring maximum safety in an emergency.



Chip-on-board LED: light distribution is defined by the shape of the bubble.



ONLITE uses efficient LED technology only, and basically saves energy in the first place. Particularly energy-efficient luminaires are marked with the Zumtobel **eco⁺** label.

Compact

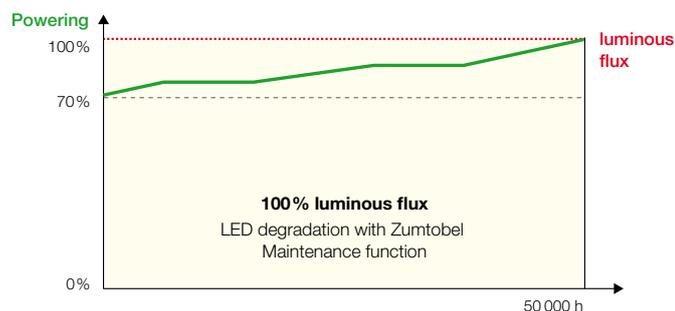
Thanks to the compact size of the LEDs, smaller and more slim-line luminaires can be designed that blend perfectly into the architecture of contemporary buildings.

LED service life

Advanced LED technology is characterised by a very long service life. LED luminaires incorporate durable all-solid technology that is resistant to environmental impact such as vibrations. Annoying flickering, a familiar feature of escape sign luminaires with old fluorescent tubes, is not a problem in LED luminaires. Contrary to traditional light sources, LEDs rarely fail, which is why the drop in luminous flux, not the failure rate, is an important criterion for their service life. LEDs by Zumtobel are classified in category L70 50k – after 50 000 hours, the LEDs still provide 70 % of the original luminous flux. Zumtobel's 5-year guarantee applies to all ONLITE LED products.

Maintenance function

Zumtobel uses the unique Maintenance function to counteract the natural ageing of the LEDs that causes a drop in luminous flux over the luminaire's service life: current feed is continuously increased according to the period of service; accordingly, a constant lighting level is available in case of an emergency. Due to the constantly high luminous flux, these luminaires are significantly safer than standard escape sign luminaires.



ONLITE components

Batteries



NiMh batteries

In the case of emergency and escape sign luminaires with separate-battery supply, the battery is located inside the luminaire and supplies the light source with power in an emergency – for one or three hours, depending on the back-up time chosen. Zumtobel batteries are environment-friendly, need little maintenance and have a long service life. Their compact design allows for a slim-line, inconspicuous luminaire design, which is typical of Zumtobel emergency and escape sign luminaires.

Service life

According to European Standard EN 60598-2-22, all batteries by Zumtobel are designed for a service life of at least four years. Combined with the rugged design of the luminaires, maintenance costs can be kept particularly low.

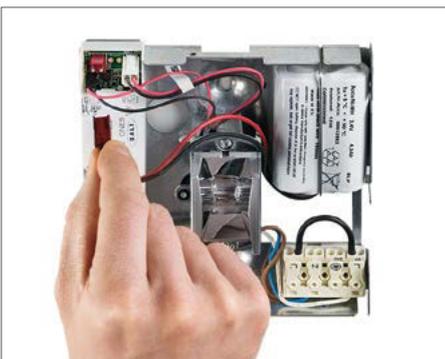
Battery charging

By means of an intelligent charging method, the batteries of the emergency and escape sign luminaires are charged safely using separate control gear. In the process, charging is geared to maximum efficiency and a long battery service life.

Charging times and charging currents of separate batteries by Zumtobel

	Initial charging time (commissioning/ battery replacement)	Recharging time	Trickle charging time
Charging time			
2000 mAh	20 h	10 h	constant
4000 mAh	20 h	15 h	constant
Charging current			
2000 mAh	170 mA	276 mA	50 mA
4000 mAh	330 mA	330 mA	130 mA

The table shows the initial charging and recharging duration of various battery types.



Maintenance and replacement

The control gear inside the luminaire checks the batteries on an ongoing basis. The current status is indicated via the status LED, or via the display of the SB 128 controller, if connected. Faulty batteries can be replaced very easily and without any tools, in just a few steps.



Overview of NiMh batteries



NiMh 2.4 V 2.0 Ah block	NiMh 4.8 V 2.0 Ah block	NiMh 2.4 V 2.0 Ah tubular	NiMh 2.4 V 4.0 Ah tubular	NiMh 2.4 V 4.0 Ah block, 3 h	NiMh 2.4 V 4.0 Ah block, 3 h
Art. no.: 59004661	Art. no.: 59004662	Art. no.: 59004662	Art. no.: 59004663	Art. no.: 59004665	Art. no.: 59004666

Capacity	2 Ah			4 Ah	
----------	------	--	--	------	--

Duration of initial charging 20 h
(installation / replacement)

20 h at 170 mA	•	•	•		
20 h at 330 mA	•	•	•		

Duration of recharging

10 h at 276 mA	•	•	•		
15 h at 330 mA	•	•	•		

Duration of trickle charging
(ongoing)

50 mA	•	•	•		
130 mA				•	•

Voltage

2.4 V	•		•	•	•
4.8 V		•			



Battery benefits

- Excellent charging and discharging efficiency, even at low and high temperatures
- Rugged design
- Sophisticated materials



ONLITE components

Batteries

Technology

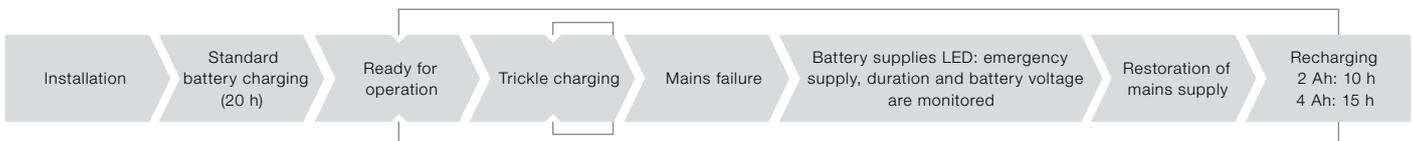
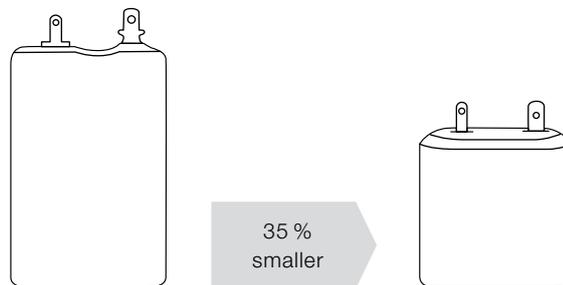
Conventional luminaires are fitted with nickel-cadmium batteries (NiCd). As the use of heavy metals like cadmium is increasingly being criticised, and a general ban is very likely, Zumtobel is increasingly using alternative nickel metal hybrid batteries (NiMh).

Sustainability

NiMh batteries do not contain any heavy metals, and although batteries for emergency lighting do not fall under the EU ban of NiCd batteries, Zumtobel has made the safety of people and the environment a top priority.

Compact design

NiMh batteries provide the same power as NiCd batteries, but are 35 % smaller. Their minimum size is the basis for developing small, compact luminaires which nevertheless boast superior design.



Advantages of NiMh batteries compared with NiCd

- 35 % smaller volume, same power output
- Without heavy metals (Cd, Hg, Pb)
- Temperature and time management improved by 15 %

Batteries for emergency and escape sign luminaires

These can all be ordered as spare parts and can be replaced easily. The ideal temperature for storing replacement batteries is between +5 °C and +25 °C at a relative humidity of 65 % (± 5 %).



NiMh 2.4 V 2.0 Ah block	NiMh 4.8 V 2.0 Ah block	NiMh 2.4 V 2.0 Ah tubular	NiMh 2.4 V 4.0 Ah tubular	NiMh 2.4 V 4.0 Ah block, 3 h	NiMh 2.4 V 4.0 Ah block, 3 h
Art. no.: 59004661	Art. no.: 59004662	Art. no.: 59004662	Art. no.: 59004663	Art. no.: 59004665	Art. no.: 59004666

Capacity	2 Ah			4 Ah	
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Emergency luminaires



NT1*	RESCLITE AD / ED / AW / EW / ES	RESCLITE TEC		
NT3**			RESCLITE ED / EW / AW IP65	RESCLITE AD / ES / TEC

Escape sign luminaires



NT1*	COMSIGN RSI		COMSIGN AD / ED / ASI / ESI	
	PURESIGN RSI		PURESIGN AD / ED / AW / EW / ASI / ESI / TEC	
	ARTSIGN EW		CROSSIGN AD / AW	
	ECOSIGN AD / AW		ARTSIGN ED	
	ERGOSIGN AW			
	CUBESIGN AD / AW			
	SQUARESIGN AW			
NT3*	COMSIGN RSI	CUBESIGN AD / AW	COMSIGN AD / ED / ASI / ESI	CROSSIGN AD / AW
	PURESIGN RSI	SQUARESIGN AW	PURESIGN AD / ED / AW / EW / ASI / ESI / TEC	
	ARTSIGN EW		CROSSIGN AW / EW	
			ARTSIGN ED	
		ERGOSIGN EW		



NT1 ERI*		CROSSIGN AD / AW
		PURESIGN AD / ED / AW / EW
NT3 ERI**		PURESIGN AD / ED / AW / EW

AD ceiling-mounted | ED recessed into ceiling | AW wall-mounted | EW recessed into wall
 ASI surface-mounted cord | ESI recessed cord | RSI REMOTE box cord | ES emergency kit | TEC TECTON
 * 10-hour charging: NT1 emergency luminaires | NT1, NT3, NT1 ERI escape sign luminaires
 ** 15-hour charging: NT3 emergency luminaires | NT3 ERI escape sign luminaires



ONLITE components

Control gear



Example of a DALI control unit

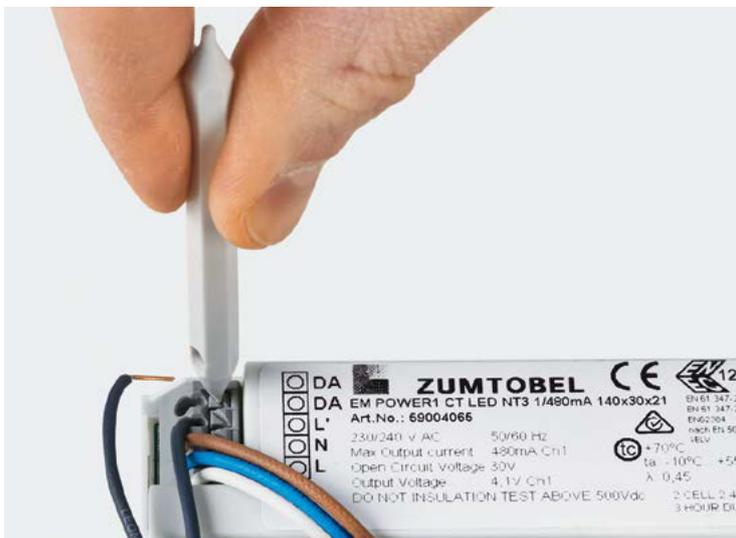
All ONLITE emergency and escape sign luminaires are fitted with newly developed Tridonic control gear. For the purpose of easy addressing of the luminaires by the electrician, this control gear is fitted with a mechanical addressing switch. A new version is "NPS", a unit for central emergency power supply without a communication line. Monitoring of the circuit allows for cost-effective central-battery solutions.

Description

The control units for separate or central supply provide various automatic test functions. 30 mm wide and 21 mm high, the control units are very compact in both lengths, i.e. 139.4 mm as well as 160 mm. Depending on the luminaire, models with one or two channels are used.

Functions

- 220–240 V AC, 50 / 60 Hz
- 220–240 V DC (NDA, NSI, NPS)
- 176–280 V DC (battery voltage for supply of luminaire)
- 320 V overvoltage protection for 1 hour
- Constant current mode
- Screw fixing mechanism (160 mm housing)
- Adhesive fixing (139.4 mm housing)
- Automatic restart after replacing LED
- SELV classification (powerLED outputs)
- Temperature protection acc. to EN 61347-2-13 C5e
- Start time of LED, until light is on in an emergency ≤ 0.5 seconds after power failure



Installation and wiring

In order to release the cable, press the Push button with the pencil, then remove the cable from the front.

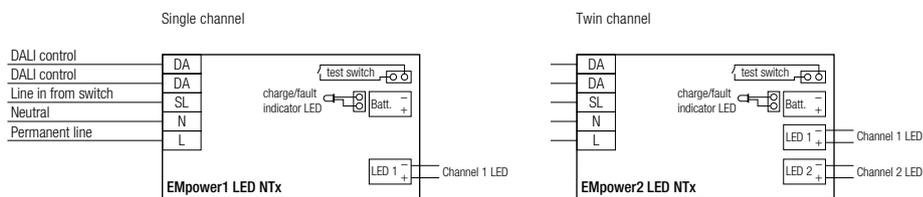
- Wiring: mains (SL, N, L) and DALI (DA)
- Maximum length of cable from control unit to LED: 3 m
- Cross-section of cable (cable to LED depending on type of use): 0.33–1.25 mm²



NTx

The control unit for escape sign luminaires with separate-battery supply and 1 hour or 3 hours of back-up time communicates with the SB 128 controller via a DALI interface:

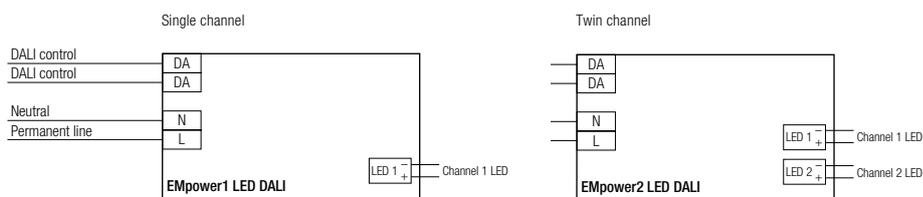
- Dimmable from 10 % to 100 %
- Standard dimming level in emergency mode: 10 %
- Status indicated by status LED



NDA

Centrally supplied emergency and escape sign luminaires with NDA control unit use a DALI interface to communicate with the up-gradable ONLITE central eBox and ONLITE central CPS central battery systems:

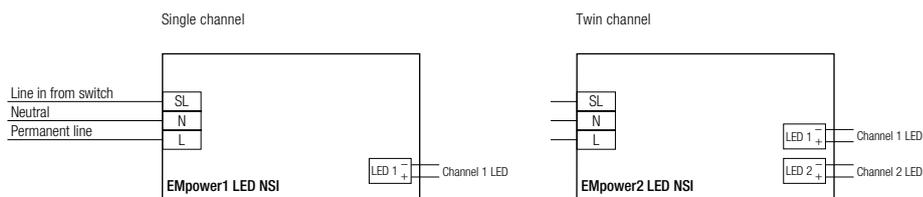
- Dimmable from 10 % to 100 %
- Standard dimming level in emergency mode: 10 %



NSI

The control unit for centrally supplied emergency and escape sign luminaires uses a Powerline interface to communicate with the ONLITE central eBox:

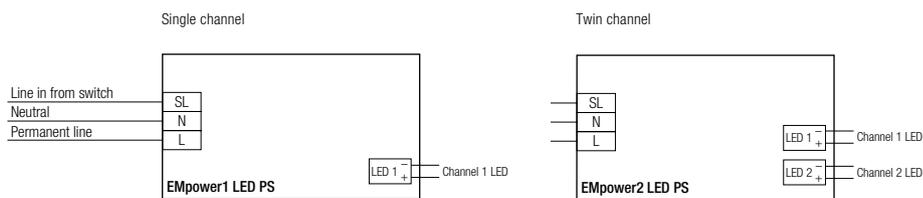
- Dimmable from 10 % to 100 %
- Standard dimming level in emergency mode: 10 %



NPS

Using this cost-effective control unit for all types of central battery supply, emergency and escape sign luminaires are monitored via the circuit. The luminaires cannot be monitored and configured individually.

- Not dimmable
- Standard level in emergency mode: 10 %



ONLITE components

Addressing of control units

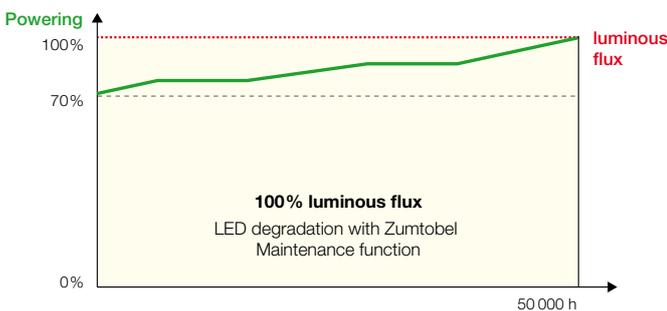
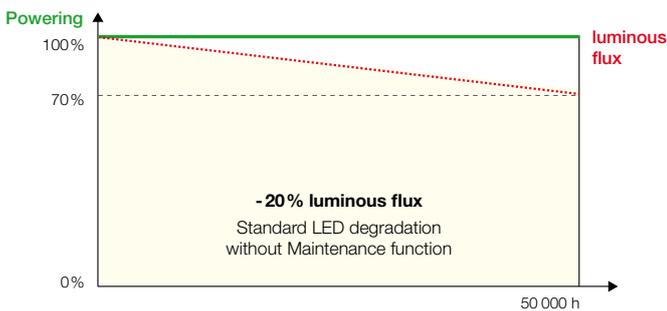


In the case of manual addressing, the dimming level and type of switching are simply set using the pen supplied.

Zumtobel luminaires are fitted with innovative control units by Tridonic, which allow for various ways of addressing. The dimming level, maintained or non-maintained mode of each emergency and escape sign luminaire can be configured and monitored individually or for groups, for instance.

Types of addressing

- Mechanical addressing
- EZ addressing
- Visual addressing



Maintenance function

After 50 000 hours of operation, the LEDs classically available on the market provide only 70 % of the initial luminous flux. The Maintenance function by Zumtobel counteracts this natural ageing: current feed is continuously increased according to the period of service. Due to the constantly high luminous flux, safety is increased significantly, for after five years of operation on average, 30 % more light will be available in an emergency. Latest-generation escape sign luminaires are even classified as L80 50k, which means a drop of 20 % only in luminous flux after 50 000 hours. The luminaires are therefore dimmed up from 80 % at the beginning to 100 % after 50 000 hours. This solution, which is unique in the market, is integrated into all ONLITE control units, the only exception being ONLITE RESCLITE emergency luminaires, as these are usually used in non-maintained mode only.

Maintenance functions of Zumtobel escape sign luminaires

50 000 hours	70 %	80 %
ARTSIGN	•	
COMSIGN 150		•
PURESIGN 150		•
CROSSIGN 110 / 160		•
ECOSIGN	•	
ERGOSIGN	•	
CUBESIGN 210	•	
SQUARESIGN 300	•	

CUBESIGN 450 and SQUARESIGN 600 do not have a Maintenance function.



Mechanical addressing

NTx and NDA (up to 64 addresses)

Two mechanical switches located at the top of the housing enable quick and easy addressing. The 10-pole rotary switch comprises 2 x 10 positions in order to set up to 64 DALI addresses (0–63) using the pen supplied. The individual luminaires can be addressed and monitored individually.



TENS ONES

NSI (up to 20 addresses)

Here, too, two mechanical switches are located on the top of the housing. A 10-pole rotary switch combined with a two-pole encoding switch offers 20 positions in order to set up to 20 addresses (0–19) using the pen supplied. The individual luminaires can be addressed and monitored individually.



TENS ONES

EZ addressing

NTx

The control unit supports the so-called EZ easy addressing system for digital addressing and identification by means of bicoloured LEDs in combination with the EM PRO addressing tool. The binary address codes of the LEDs are automatically converted into DALI addresses 0–63. To do so, a broadcast signal is sent every 3 to 9 seconds while the main LEDs are switched off. After 3 seconds, the status LED starts to flicker, indicating the 6-bit binary address.



Visual addressing

NDA and NSI

These control units are addressed via the corresponding central battery or group battery system. After addressing has been initialised at the controller (SB 128, eBox, CPS), the latter sends a broadcast signal and the luminaires are switched on in random order. On the controller's display, an address is assigned to the respective lit luminaire.



ONLITE components

Function and annual system tests

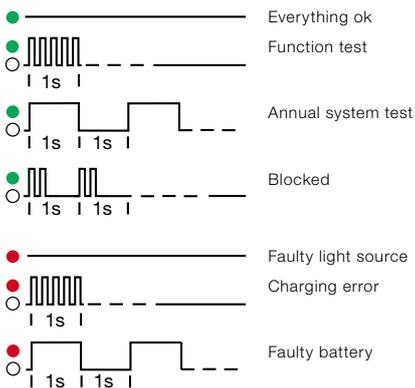


NTx with SB 128 controller

- Function or annual system tests triggered via DALI command
- Configurable test starts
- Test results stored in internal test log book

NTx without SB 128 controller

- Autotest: self-testing luminaires
- Function test every seven days, annual system test once a year
- Test starts can be changed using optionally available test switches



NTx tests

Commissioning

- Connection of luminaire
- Initial charging of battery for 20 hours (also after battery replacement)
- Self-test of luminaire

Function test

- Starting time and frequency can be configured
- Duration: 5 seconds

Annual system test

- Starting time and frequency can be configured
- Duration: depending on back-up time

Extension time

- Time between return of mains power and end of emergency mode
- Standard: 0 minutes according to DALI standard
- Can be configured as required

Test switch

- A test switch can optionally be installed for the following purposes:

Test switch pressed for	Action
< 200 ms	no effect
200 ms < t < 1 s	Starts a 5-second function test
1 s < t < 10 s	Test will run as long as test switch is pressed
t > 10 s	Starting time of test is adjusted Will subsequently start at time when test switch was pressed

NTx configuration of test starts using test switch

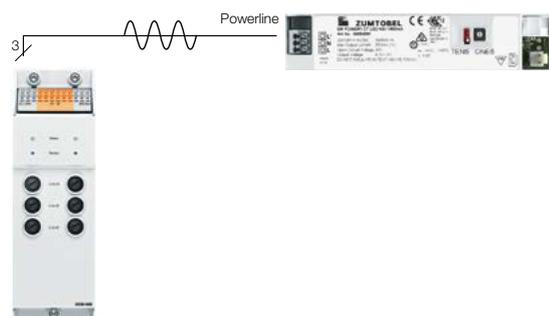
- By pressing the test switch for more than 10 seconds, the timer built into the control unit for the function and annual system tests can be set to any time of the day. This function only works in luminaires without a controller installed.





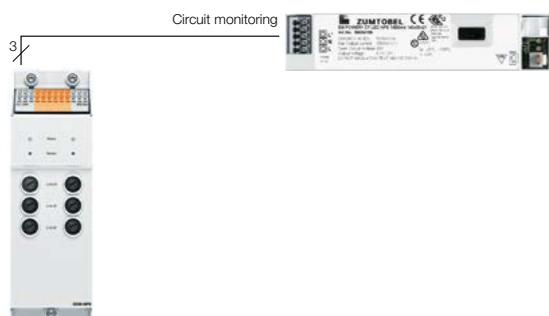
NDA with ONLITE central eBox or CPS

- DALI command triggers function or annual system tests
- Configurable: start and frequency of tests
- Test results stored in internal test log book
- Maximum safety because interruption or short circuit of control line will be identified
- DALI communication ensures high functionality
- Mechanical and visual addressing
- 5-pole wiring



NSI with ONLITE central eBox

- Powerline command triggers function or annual system tests
- Configurable: start and frequency of tests
- Test results stored in internal test log book
- Mechanical and visual addressing
- 3-pole wiring
- Suitable for refurbishment of existing 3-pole wiring



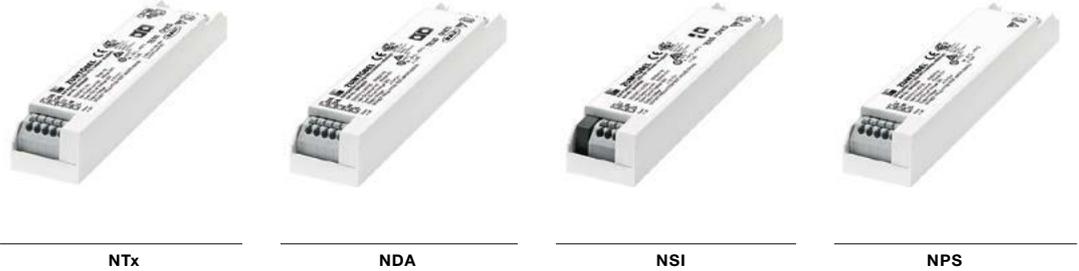
NPS with ONLITE central eBox or CPS

- Luminaires are monitored via monitored circuit
- No communication: luminaires are not tested individually
- 3-pole wiring

ONLITE components

Control units

Overview of control units



	NTx	NDA	NSI	NPS
Communication				
DALI	•	•		
Powerline			•	
No communication				•
Addressing				
Mechanical addressing	•	•	•	
EZ addressing	•			
Visual addressing	SB 128 controller	eBox or CPS	eBox	
Checked components				
LED status	•	•	•	
Battery status	•			
Charging conditions of battery	•			
Automatic tests				
Function and annual system tests	• ^{1,2}	•	•	
Time of function and annual system tests				
Can be set	with SB 128 controller	•	•	
Maintained and non-maintained mode				
Maintained and non-maintained mode	•	•	•	•
Switch to maintained mode	•			
Dimming				
Dimmable	10–100 %	10–100 %	10–100 %	
Not dimmable				•
Other features				
Maintenance function	•	•	•	

¹ without controller: autotest (weekly function and annual system test, status indicated via status LED)

² with SB 128 controller (start of tests can be configured, results automatically logged in internal test log book)







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ONLITE Product overview



ONLITE

product overview

Emergency luminaires



	RESCLITE escape high performance	RESCLITE escape	RESCLITE escape high ceilings	RESCLITE wall	RESCLITE antipanic high performance	RESCLITE antipanic	RESCLITE antipanic high ceilings	RESCLITE spot
Protection rating								
Protection rating 1	IP40	IP40		IP40	IP40	IP40		IP40
Protection rating 2		IP65	IP65	IP65		IP65	IP65	IP65
Maximum luminaire spacing > 1 lx								
NT1 / NT3	< 31,5 m	< 23 m		< 14 m				
NDA / NSI / NPS	< 35 m	< 26 m	< 22 m	< 15 m				
Maximum room illumination > 0.5 lx								
NT1 / NT3					465 m ²	170 m ²		
NDA / NSI / NPS					440 m ²	220 m ²	290 m ²	
Maximum object illumination > 5 lx								
NT1 / NT3								Ø 3,3 m
NDA / NSI / NPS								Ø 3,8 m
Colour								
Anodised aluminium		•		•		•		•
White	•	•	•	•	•	•	•	•
Installation								
Recessed into ceiling	•	•			•	•		•
Surface-mounted on ceiling		•	•			•	•	•
Recessed into wall				•				
Surface-mounted on wall 180°				•				
TECTON continuous-row system		•				•		•
TECTON continuous-row system 180°		•	•				•	
Lighting inserts								
LEDs	•	•	•	•	•	•	•	•
Application								
Escape route lighting	•		•	•	•			
Antipanic lighting					•	•	•	
Object lighting								•

Emergency lighting systems

Each ONLITE emergency and escape sign luminaire is available with separate, group or central battery supply. Zumtobel luminaires for general lighting can also be used as emergency luminaires. For this purpose, they are fitted with an emergency lighting module at the factory.



Escape sign luminaires



	ONLITE ARTSIGN	ONLITE COMSIGN 150	ONLITE PURESIGN 150	ONLITE CROSSIGN 110/160	ONLITE ECOSIGN	ONLITE ERGOSIGN	ONLITE CUBESIGN 210/450	ONLITE SQUARESIGN 300/600
Protection rating								
Protection rating 1	IP40	IP42	IP42	IP42	IP65	IP54	IP40	IP54
Protection rating 2				IP54				
Recognition range								
Recognition range 1	15 m	30 m	30 m	22 m	32 m	16 m	42 m	60 m
Recognition range 2				32 m			90 m	120 m
Colour								
Silver, powder-coated		•	•					
Anodised aluminium	•							
White				•	•	•	•	•
Installation								
Recessed in ceiling	•	•	•					
Surface-mounted on ceiling	•	•	•	•	•	•	•	
Recessed into wall	•		•					
Surface-mounted on wall 90°		•	•	•	•			
Surface-mounted on wall 180°	•	•	•	•	•	•		•
ASI cord suspension		•	•	•	•		•	
ESI cord suspension		•	•					
RSI cord suspension		•	•					
Pendant suspension				•	•			
TECTON continuous-row system			•	•				
Escape sign								
Single-sided	•	•	•	•	•	•		•
Double-sided	•	•	•	•	•			
Multi-sided							•	
Lighting inserts								
LEDs	•	•	•	•	•	•	•	•
Compact fluorescent lamps							•	
Fluorescent lamps								•
ERI spot								
with ERI spot			•	•				
without ERI spot	•	•	•	•	•	•	•	•
Luminaire type								
Escape sign luminaire	•	•	•	•	•	•	•	•
Emergency luminaire			•	•	•			



ONLITE RESCLITE

Innovative LED technology is paving the way into a new era of emergency lighting

With a power LED and four sophisticated optics, RESCLITE paves the way for a new era of emergency lighting. Maximum efficiency and optimal light distribution result in the need for a low number of luminaires for emergency lighting in conformity with relevant standards. The LED power package makes do with minimal energy levels. Installed load is a mere 5 W, and with non-maintained mode only 1.5 W. The supply systems and wiring are correspondingly small-dimensioned as well. Design work with RESCLITE is really simple. And the best of all: it is completely independent of general lighting. No-tool mounting, installation and maintenance are quick and easy.

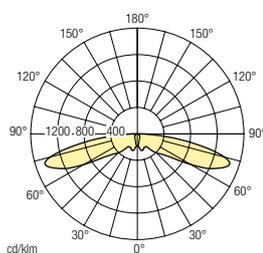


[...] Shared properties ONLITE RESCLITE HP

- LED emergency luminaire for emergency lighting in accordance with EN 1838, UNI EN 50172 and NFPA
- Luminaire housing of diecast aluminium, powder-coated white RAL 9016
- Large aluminium heat sink ensures optimum thermal management
- Polycarbonate lens
- 2 high-power LEDs, cool white
- Includes PC gearbox for recessed ceiling installation
- Connecting cable between LED spot and gearbox fitted with strain relief at each end
- Tool-free quick-fit installation for all luminaire types
- Ceiling cut-out 68 mm
- Plug-in terminals for through-wiring, max. 2.5 mm²
- Suitable for recessed installation in concrete casting surround (please order separately)
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Rotary switch for setting address mechanically (excludes NPS)
- Emergency lighting level can be set from 10–100 % (NPS not dimmable), factory set to 100 %
- Installed loads: NT1: 6.6 W; NT3: 7 W; NDA: 7 W; NSI: 8 W; NPS: 7.2 W; standby consumption (non-maintained mode) < 1.5 W
- Mains connection NT1/NT3: 220-240 V AC 50-60 Hz. NSI/NPS/NDA: 220-240 V AC/DC 50-60 Hz.
- Total luminous flux of luminaire: NT1/NT3: 350 lm. NDA/NSI/NPS: 440 lm
- Luminaire pre-wired using halogen-free leads

RESCLITE escape

LED emergency luminaire for escape route lighting according to EN 1838



Luminaire distances for 2 m escape route width

Mounting height (m)	a1 Wall/luminaire max. distance (m)				a2 Luminaire/Luminaire max. distance (m)							
	NTx	Nxx	NTx	Nxx	NTx	Nxx	NTx	Nxx	NTx	Nxx	NTx	Nxx
2,2	9,05	9,60	4,40	4,65	4,00	4,00	21,50	22,65	10,60	11,15	8,00	11,00
2,5	9,55	10,15	4,75	5,10	3,50	4,10	22,90	24,15	11,70	12,40	5,50	8,90
3,0	10,25	10,95	4,95	5,45	2,50	2,50	24,95	26,40	13,50	14,00	4,50	4,50
3,5	10,75	11,55	3,40	5,40	2,20	2,00	26,70	28,35	13,95	15,15	4,00	4,00
4,0	11,05	12,00	1,60	2,05	-	1,75	28,20	30,00	13,00	15,60	-	4,00
4,5	11,10	12,25	-	1,65	-	-	29,50	31,45	10,25	12,70	-	-
5,0	10,95	12,35	-	-	-	-	30,45	32,75	5,00	11,10	-	-
5,5	10,00	12,15	-	-	-	-	31,10	33,75	2,00	5,40	-	-
6,0	6,05	11,55	-	-	-	-	31,45	34,40	-	2,25	-	-
6,5	3,80	7,75	-	-	-	-	29,60	34,80	-	-	-	-
7,0	3,35	4,45	-	-	-	-	25,80	34,05	-	-	-	-
7,5	-	4,00	-	-	-	-	24,75	32,15	-	-	-	-
8,0	-	-	-	-	-	-	22,50	27,90	-	-	-	-
8,5	-	-	-	-	-	-	16,95	27,20	-	-	-	-
9,0	-	-	-	-	-	-	11,05	24,75	-	-	-	-
9,5	-	-	-	-	-	-	9,95	18,50	-	-	-	-
10,0	-	-	-	-	-	-	4,60	12,25	-	-	-	-



NT1: Self contained emergency power supply for 1 hour
 NT3: Self contained emergency power supply for 3 hours
 Nxx: NDA. NSI. NPS Central battery

- width of escape route: 2 m
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors 1 lx, 1fc: 0
- reflection factors 5 lx: taken into account
- glare limitation according to EN 1838 is complied with

ONLITE RESCLITE escape high performance ED ceiling recessed

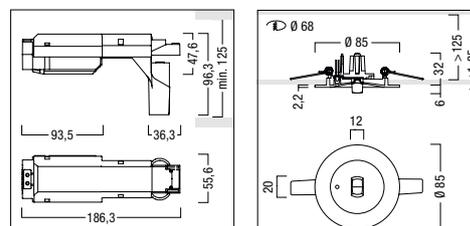


- [...]
- For use in rooms with ceiling height 2.5m to 8 m
- Discreet, elegant design due to new lens construction without reflector

Accessory

RESCLITE C ESCAPE HP ED NT1 WH	42 182 557
RESCLITE C ESCAPE HP ED NPS WH	42 182 565
RESCLITE C ESCAPE HP ED NSI WH	42 182 563
RESCLITE C ESCAPE HP ED NDA WH	42 182 561
RESCLITE C ESCAPE HP ED NT3 WH	42 182 559

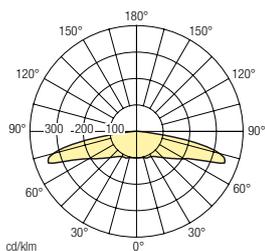
Order no.



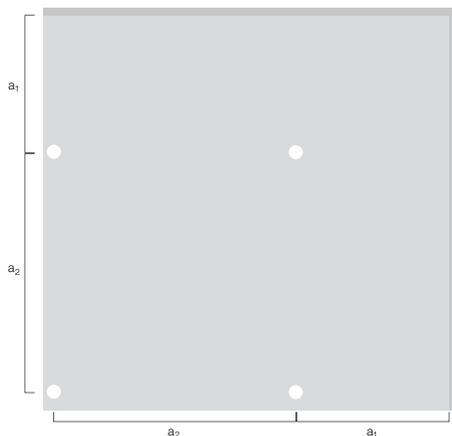
RESCLITE antipanic

LED emergency luminaire for antipanic lighting according to EN 1838

Luminaire spacings for antipanic lighting in conformity with relevant standards



Mounting height [m]	Wall / luminaire max. distance [m]		Luminaire / luminaire max. distance [m]					
	NT1, NT3	Nxx	NT1, NT3	Nxx				
2,2	5,20	5,60	2,50	2,85	14,95	15,85	7,75	8,25
2,5	4,80	5,75	2,35	2,60	15,75	16,75	8,40	9,00
3,0	4,65	5,20	2,15	2,50	16,85	18,00	9,15	9,95
3,5	4,50	5,15	1,75	2,20	17,80	19,10	9,50	10,45
4,0	4,30	4,95	1,25	1,70	18,35	20,00	9,55	10,60
4,5	3,95	4,70	0,70	1,20	18,85	20,40	9,35	10,60
5,0	3,55	4,40	-	0,60	19,05	20,90	9,00	10,30
5,5	3,00	4,00	-	-	19,00	21,10	8,15	9,90
6,0	2,45	3,45	-	-	19,10	21,10	6,95	9,00
6,5	1,95	2,90	-	-	19,00	21,20	5,80	7,80
7,0	1,40	2,40	-	-	18,75	21,10	4,45	6,75
7,5	0,75	1,85	-	-	18,45	21,00	3,30	5,35
8,0	-	1,25	-	-	18,00	20,70	2,20	4,10
8,5	-	-	-	-	17,20	20,30	0,55	3,05
9,0	-	-	-	-	16,30	19,80	-	1,85
9,5	-	-	-	-	15,05	18,90	-	-
10,0	-	-	-	-	13,90	18,10	-	-



NT1: Self contained emergency power supply for 1 hour
 NT3: Self contained emergency power supply for 3 hours
 Nxx: NDA. NSI. NPS central battery

- Rectangular light distribution for perfect illumination of rooms
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors (0.5 lx): 0
- reflection factors (2 lx): taken into account
- glare limitation according to EN 1838 is complied with

ONLITE RESCLITE antipanic high performance ED ceiling recessed

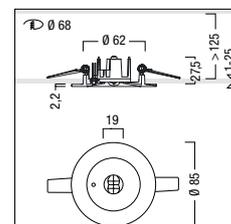
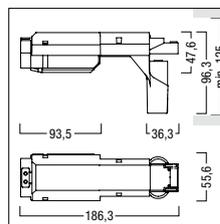
Order no.



- [...] (Note: The image shows a bracketed empty space)
- For use in rooms with ceiling height 2.2m to 10 m
- Rectangular light distribution enables very simple planning and perfect illumination even into corners

Accessory

RESCLITE C ANTIPANIC HP ED NT1 WH	42 182 558
RESCLITE C ANTIPANIC HP ED NPS WH	42 182 566
RESCLITE C ANTIPANIC HP ED NSI WH	42 182 564
RESCLITE C ANTIPANIC HP ED NDA WH	42 182 562
RESCLITE C ANTIPANIC HP ED NT3 WH	42 182 560

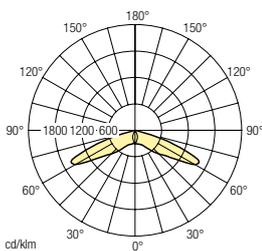


|...| Shared properties ONLITE RESCLITE

- Large aluminium heat sink ensures optimum thermal management
- Reflectors and lenses made of PC
- Connected load of all RESCLITE types < 5 W; standby power (non-maintained mode) < 1.5 W
- Luminaire pre-wired using halogen-free leads
- LED emergency luminaire for increased illuminance levels to EN 1838
- Suitable for ceiling heights 2.5 to 6 m
- Large aluminium heat sink ensures optimum thermal management
- Reflectors and lenses made of PC
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Connected load of all RESCLITE types < 5 W; standby power (non-maintained mode) < 1.5 W
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMH battery is replaced without tools
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
- Luminaire pre-wired using halogen-free leads

RESCLITE escape

LED emergency luminaire for escape route lighting according to EN 1838



Luminaire distances for 2 m escape route width

Mounting height height [m]	Wall / luminaire max. distance [m]		Luminaire / luminaire max. distance [m]	
	IP40 NT1 / NT3 / Nxx	IP65 NT1 / NT3 / Nxx	IP40 NT1 / NT3 / Nxx	IP65 NT1 / NT3 / Nxx
2.2	6.80 / 6.75 / 7.20	6.80 / 6.70 / 7.15	16.00 / 15.85 / 16.80	15.80 / 15.70 / 16.60
2.5	7.25 / 7.20 / 7.70	7.25 / 7.15 / 7.65	17.15 / 17.00 / 18.05	17.00 / 16.90 / 17.85
3.0	8.05 / 7.95 / 8.45	7.90 / 7.85 / 8.40	18.90 / 18.75 / 19.95	18.85 / 18.70 / 19.85
3.5	8.65 / 8.55 / 9.20	8.45 / 8.35 / 9.00	20.50 / 20.30 / 21.65	20.40 / 20.20 / 21.60
4.0	9.15 / 9.05 / 9.75	8.90 / 8.75 / 9.50	22.05 / 21.90 / 23.20	21.85 / 21.60 / 23.10
4.5	9.60 / 7.00 / 10.25	5.15 / 5.10 / 9.95	23.45 / 23.20 / 24.80	21.90 / 21.35 / 24.50
5.0	5.45 / 5.15 / 10.70	3.90 / 3.85 / 5.75	23.30 / 22.60 / 26.15	22.15 / 19.90 / 25.65
5.5	4.20 / 3.95 / 6.30	4.00 / 3.80 / 4.30	22.20 / 21.70 / 26.30	20.70 / 20.45 / 24.75
6.0	3.40 / 3.15 / 5.05	2.90 / 2.55 / 4.45	21.80 / 21.25 / 25.10	16.90 / 15.50 / 23.00
6.5	2.40 / 2.10 / 4.15	1.50 / 1.25 / 3.70	18.15 / 17.05 / 24.65	14.45 / 12.70 / 23.20
7.0	1.00 / - / 3.35	- / - / 2.35	15.65 / 14.70 / 24.00	12.10 / 10.85 / 15.90
7.5	- / - / 2.15	- / - / 1.25	13.10 / 12.25 / 19.00	9.95 / 9.20 / 11.90



NT1 Self contained emergency power supply for 1 hour
 NT3 Self contained emergency power supply for 3 hours
 Nxx NDA. NSI. NPS Central battery

- width of escape route: 2 m
- minimal illuminance on 1 m width: 1 lx
- minimal illuminance on half of escape route width: 0.5 lx
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with



ONLITE RESCLITE escape ED ceiling-recessed



- [...]]
- LED emergency luminaire for escape route illumination to EN 1838
- Suitable for ceiling heights 2.2 to 7 m
- Luminaire housing of diecast aluminium, powder-coated white RAL 9016 or silver RAL 9006
- Includes PC gearbox for recessed ceiling installation
- Connecting lead between LED spot and control-gear box has strain-relief at both ends
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Tool-free quick-fit installation for all luminaire types
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Ceiling cut-out 68 mm
- Strain-relief for mains supply lead moulded onto gearbox; tool-free installation
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
- Suitable for recessed installation in concrete casting surround (please order separately)

Self contained with monitoring; white

RESCLITE C ESCAPE ED LED NT1 WH	42 180 394	<i>electronic</i>
RESCLITE C ESCAPE ED LED NT3 WH	42 180 395	

Centrally supplied, white

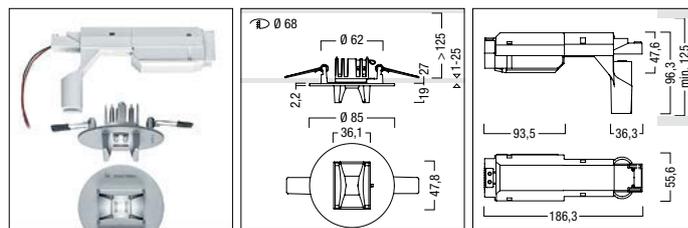
RESCLITE C ESCAPE ED LED NDA WH	42 180 397	
RESCLITE C ESCAPE ED LED NPS WH electronic	42 180 811	
RESCLITE C ESCAPE ED LED NSI WH	42 180 396	

Self contained with monitoring; aluminium

RESCLITE C ESCAPE ED LED NT1 AL	42 180 398	<i>electronic</i>
RESCLITE C ESCAPE ED LED NT3 AL	42 180 399	

Centrally supplied, aluminium

RESCLITE C ESCAPE ED LED NDA AL	42 180 401	
RESCLITE C ESCAPE ED LED NPS AL electronic	42 180 812	
RESCLITE C ESCAPE ED LED NSI AL	42 180 400	



ONLITE RESCLITE escape AD ceiling surface-mount



- [...]]
- LED emergency luminaire for escape route illumination to EN 1838
- Suitable for ceiling heights 2.2 to 7 m
- Luminaire housing of diecast aluminium, powder-coated white RAL 9016 or silver RAL 9006
- Gear tray made of galvanised sheet steel
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Can be installed on plaster surfaces with side cable entry
- Die-cast aluminium cover can be fitted without tools
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)

Self contained with monitoring; white

RESCLITE C ESCAPE AD LED NT1 WH 1 h	42 180 386	<i>electronic</i>
RESCLITE C ESCAPE AD LED NT3 WH 3 h	42 180 387	

Centrally supplied, white

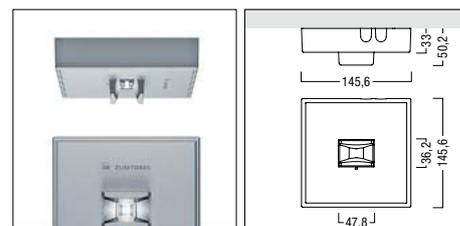
RESCLITE C ESCAPE AD LED NDA WH	42 180 389	
RESCLITE C ESCAPE AD LED NPS WH electronic	42 180 809	
RESCLITE C ESCAPE AD LED NSI WH	42 180 388	

Self contained with monitoring; aluminium

RESCLITE C ESCAPE AD LED NT1 AL 1 h	42 180 390	<i>electronic</i>
RESCLITE C ESCAPE AD LED NT3 AL 3 h	42 180 391	

Centrally supplied, aluminium

RESCLITE C ESCAPE AD LED NDA AL	42 180 393	
RESCLITE C ESCAPE AD LED NPS AL electronic	42 180 810	
RESCLITE C ESCAPE AD LED NSI AL	42 180 392	



ONLITE RESCLITE escape AD ceiling surface-mount IP65

Order no.



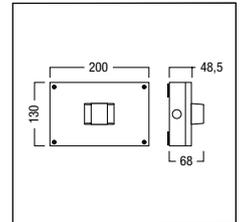
- [...]
 - LED emergency luminaire for escape route illumination to EN 1838
 - Suitable for ceiling heights 2.2 to 7 m
 - IP65 housing made of die-cast aluminium in white powder-coated finish, RAL 9016
 - NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
 - Mains supply NT: 220/240 V AC 50/60 Hz
 - NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
 - Cable entry from the rear or the side
 - Plug-in terminals for through-wiring, max. 2.5 mm²
 - NiMh batteries in the self-contained models (NT1 and NT3) can be replaced easily
 - PG cable glands can be used
 - White cover made of fibreglass-reinforced PC with transparent PC light outlet

Self contained with monitoring; white

RESCLITE C ESCAPE AD LED NT1 IP65 WH 1 h	42 180 458	<i>electronic</i>
RESCLITE C ESCAPE AD LED NT3 IP65 WH 3 h	42 180 459	

Centrally supplied, white

RESCLITE C ESCAPE AD LED NDA IP65 WH	42 180 461
RESCLITE C ESCAPE AD LED NPS IP65 WH electronic	42 180 827
RESCLITE C ESCAPE AD LED NSI IP65 WH	42 180 460



ONLITE RESCLITE escape TEC TECTON continuous-row lighting system

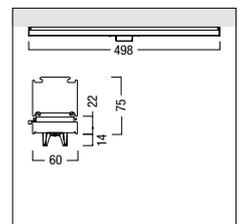
Order no.



- [...]
 - LED emergency luminaire for escape route illumination to EN 1838
 - Suitable for ceiling heights 2.2 to 7 m
 - Roll-formed sheet steel with white polyester resin enamel coating
 - Status LED (NT1 and NT3) integrated in the transparent end caps
 - NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
 - Mains supply NT: 220/240 V AC 50/60 Hz
 - Phase selection for 3 phase circuits and 2 emergency lighting circuits
 - Tool-free quick-fit installation for all luminaire types
 - Plug-in terminals for through-wiring, max. 2.5 mm²
 - In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
 - Tool-free connection to TECTON continuous row lighting system
 - NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)

Centrally supplied, white

RESCLITE C ESCAPE TEC-GP LED NDA WH	42 183 107
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ONLITE RESCLITE escape TEC TECTON H180 continuous-row lighting system



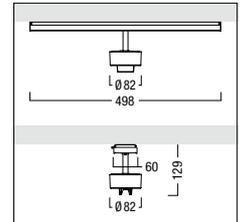
- [...]]
- LED emergency luminaire for escape route illumination to EN 1838
- Suitable for ceiling heights 2.2 to 7 m
- Roll-formed sheet steel with white polyester resin enamel coating
- Can be fitted without tools to the TECTON continuous-row lighting system; optic can be rotated and locked in position
- Includes TECTON pendant suspension (module length 110 mm)
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Status LED (NT1 and NT3) integrated in the transparent end caps
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Tool-free quick-fit installation for all luminaire types
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)

Self contained with monitoring; white

Product	Order no.
RESCLITE C ESCAPE TEC-GP LED NT1 H180 1 h	42 183 118
RESCLITE C ESCAPE TEC-GP LED NT3 H180 3 h	42 183 119

Centrally supplied, white

RESCLITE C ESCAPE TEC-GP LED NDA H180	42 183 116
RESCLITE C ESCAPE TEC-GP LED NPS H180 electronic	42 183 123
RESCLITE C ESCAPE TEC-GP LED NSI H180	42 183 117



ONLITE RESCLITE escape recessed set



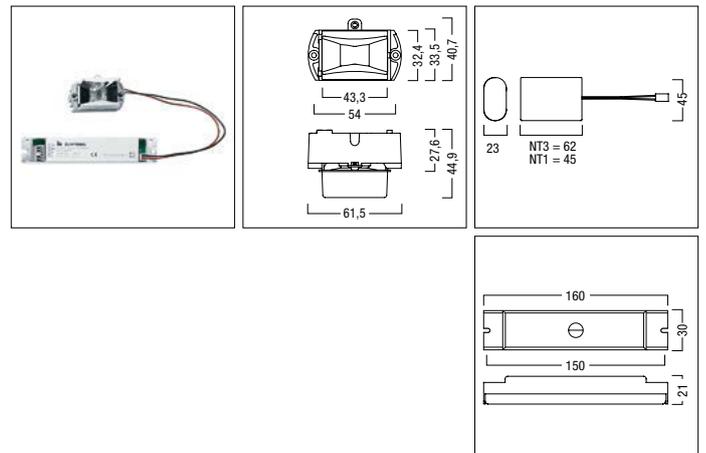
- [...]]
- Kit for installing in standard luminaires
- LED emergency luminaire for escape route illumination to EN 1838
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)

Self contained with monitoring

RESCLITE C ESCAPE EMERGENCY SET NT1 1 h	22 166 840
RESCLITE C ESCAPE EMERGENCY SET NT3 3 h	22 166 841

Centrally supplied

RESCLITE C ESCAPE EMERGENCY SET DALI	22 166 843
RESCLITE C ESCAPE EMERGENCY SET NSI	22 166 842



ONLITE RESCLITE escape METRUM

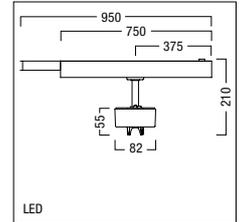


- [...]]
- Can be fitted without tools to the METRUM continuous-row lighting system
- Optic can be rotated and locked in position
- Module lengths: 750 mm LED version, 735 mm T16 version
- Status LED (NT1 and NT3) integrated in the transparent end caps
- End module terminate the continuous-row lighting
- 7-pole loop-in/loop-out wiring for 2.5 mm² leads
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Tool-free mechanical and electrical installation using CLIX technology
- NiMh battery can be replaced without tools in self-contained model NT1
- Intended for all luminaire types for use in self-contained (NT1 and NT3) battery systems
- Roll-formed sheet steel with white polyester resin enamel coating

Self contained with monitoring; white

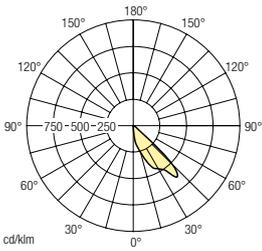
	<i>electronic</i>
RESCLITE C ESCAPE MET LED NT1 H180 1 h	42 181 777
RESCLITE C ESCAPE MET LED NT1 H180 END 1 h	42 181 778
RESCLITE C ESCAPE MET T16 NT1 H180 1 h	42 181 779
RESCLITE C ESCAPE MET T16 NT1 H180 END 1 h	42 181 780

Order no.



RESCLITE wall

LED emergency luminaire for wall route lighting according to EN 1838



Luminaire distances for 2 m wall route width

Mounting height height [m]	Wall / luminaire max. distance [m]			
	IP40 NT1 / NT3 / Nxx		IP65 NT1 / NT3 / Nxx	
2.2	4.20 / 4.20 / 4.40	4.20 / 4.20 / 4.50	10.00 / 10.00 / 10.50	10.20 / 10.20 / 10.60
2.5	4.40 / 4.40 / 4.70	4.20 / 4.20 / 4.60	10.60 / 10.60 / 11.10	10.80 / 10.80 / 11.30
3.0	4.90 / 4.90 / 5.20	4.60 / 4.60 / 5.00	12.10 / 12.10 / 12.60	12.20 / 12.20 / 12.70
3.5	5.00 / 5.00 / 5.40	4.80 / 4.80 / 5.20	12.70 / 12.70 / 13.40	12.20 / 12.20 / 13.30
4.0	5.20 / 5.20 / 5.60	4.80 / 4.80 / 5.40	13.70 / 13.70 / 14.50	12.90 / 12.90 / 14.10
4.5	5.00 / 5.00 / 5.80	4.80 / 4.80 / 5.50	14.20 / 14.20 / 15.00	13.40 / 13.40 / 14.20
5.0	3.50 / 3.50 / 4.30	0.50 / 0.50 / 2.00	11.00 / 11.00 / 12.00	10.00 / 10.00 / 10.20
5.5	- / - / 0,50	- / - / -	10,30 / 10,30 / 16,00	8,7 / 8,7 / 12,70
6.0	- / - / 0,50	- / - / -	9,20 / 9,20 / 12,30	8,4 / 8,4 / 10,70



NT1 Self contained emergency power supply for 1 hour
 NT3 Self contained emergency power supply for 3 hours
 Nxx NDA. NSI. NPS central battery

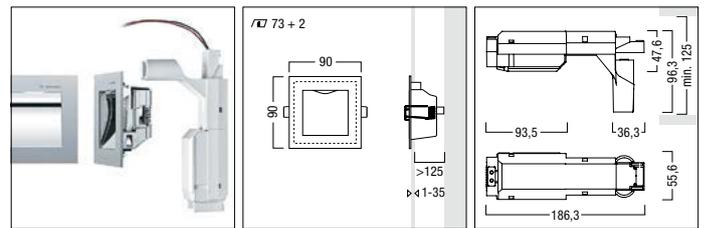
- width of wall route: 2 m
- minimal illuminance on 1 m width: 1 lx
- minimal illuminance on half of wall route width: 0.5 lx
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

ONLITE RESCLITE wall EW wall-recessed



- [...]
 - LED emergency luminaire for escape route illumination to EN 1838
 - Suitable for ceiling heights 2.5 to 6 m
 - Luminaire housing of diecast aluminium, powder-coated white RAL 9016 or silver RAL 9006
 - Includes gearbox for wall installation
 - Connecting cable between LED spot and gearbox fitted with strain relief at each end
 - Mains-cable strain relief is moulded onto gearbox; tool-free installation
 - NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
 - Mains supply NT: 220/240 V AC 50/60 Hz
 - NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
 - Tool-free quick-fit installation for all luminaire types
 - Plug-in terminals for through-wiring, max. 2.5 mm²
 - In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
 - Suitable for recessed installation in concrete casting surround (please order separately)

	Order no.
Self contained with monitoring; white	<i>electronic</i>
RESCLITE C WALL EW LED NT1 WH 1 h	42 180 466
RESCLITE C WALL EW LED NT3 WH 3 h	42 180 467
Centrally supplied, white	
RESCLITE C WALL EW LED NDA WH	42 180 469
RESCLITE C WALL EW LED NPS WH electronic	42 180 829
RESCLITE C WALL EW LED NSI WH	42 180 468
Self contained with monitoring; aluminium	<i>electronic</i>
RESCLITE C WALL EW LED NT1 AL 1 h	42 180 470
RESCLITE C WALL EW LED NT3 AL 3 h	42 180 471
Centrally supplied, aluminium	
RESCLITE C WALL EW LED NDA AL	42 180 473
RESCLITE C WALL EW LED NPS AL electronic	42 180 830
RESCLITE C WALL EW LED NSI AL	42 180 472



ONLITE RESCLITE wall AW wall surface-mount IP65

Order no.



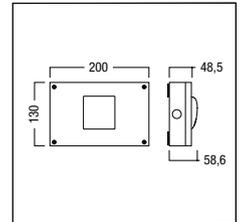
- [...]]
- LED emergency luminaire for escape route illumination to EN 1838
- Suitable for ceiling heights 2.5 to 6 m
- IP65 housing made of die-cast aluminium in white powder-coated finish, RAL 9016
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
- Cable entry from the rear or the side
- Plug-in terminals for through-wiring, max. 2.5 mm²
- NiMh batteries in the self-contained models (NT1 and NT3) can be replaced easily
- PG cable glands can be used
- White cover made of fibreglass-reinforced PC with transparent PC light outlet

Self contained with monitoring; white

RESCLITE C WALL AW LED NT1 IP65 WH 1 h	42 180 462	<i>electronic</i>
RESCLITE C WALL AW LED NT3 IP65 WH 3 h	42 180 463	

Centrally supplied, white

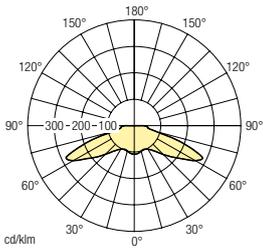
RESCLITE C WALL AW LED NDA IP65 WH	42 180 465
RESCLITE C WALL AW LED NPS IP65 WH electronic	42 180 828
RESCLITE C WALL AW LED NSI IP65 WH	42 180 464



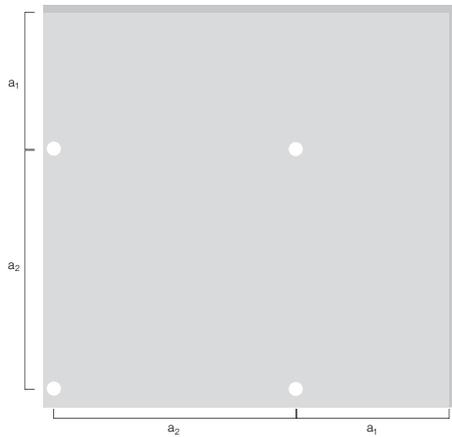
RESCLITE antipanic

LED emergency luminaire for antipanic lighting according to EN 1838

Luminaire spacings for antipanic lighting in conformity with relevant standards



Mounting height [m]	Wall / luminaire max. distance [m]		Luminaire / luminaire max. distance [m]	
	IP40 NT1 / NT3 / Nxx	IP65 NT1 / NT3 / Nxx	IP40 NT1 / NT3 / Nxx	IP65 NT1 / NT3 / Nxx
2.2	3.95 / 3.95 / 4.15	3.50 / 3.50 / 3.65	9.50 / 9.35 / 9.55	8.20 / 8.15 / 8.35
2.5	4.20 / 4.15 / 4.45	3.85 / 3.80 / 4.00	10.45 / 10.40 / 10.65	9.10 / 9.10 / 9.30
3.0	3.05 / 3.00 / 3.45	3.10 / 3.00 / 4.50	11.95 / 11.85 / 12.40	10.60 / 10.55 / 10.80
3.5	3.15 / 3.10 / 3.45	3.10 / 3.10 / 3.40	13.05 / 12.95 / 13.70	11.90 / 11.75 / 12.25
4.0	2.80 / 2.70 / 3.55	2.70 / 2.65 / 3.55	12.30 / 12.10 / 14.80	12.70 / 12.55 / 13.45
4.5	2.65 / 2.55 / 3.15	2.70 / 2.60 / 3.00	12.70 / 12.55 / 13.75	12.25 / 12.05 / 14.20
5.0	2.35 / 2.20 / 2.95	2.35 / 2.20 / 3.00	13.20 / 13.05 / 14.15	12.30 / 12.05 / 13.65
5.5	1.85 / 1.70 / 2.70	1.70 / 1.60 / 2.65	12.15 / 11.90 / 14.75	12.50 / 12.30 / 14.00
6.0	1.50 / 1.40 / 2.20	1.40 / 1.10 / 2.10	12.20 / 12.00 / 13.70	12.30 / 11.90 / 13.85
6.5	1.20 / 1.05 / 1.80	- / - / 1.70	12.30 / 11.85 / 13.60	12.15 / 11.90 / 14.30
7.0	0.55 / 0.20 / 1.55	- / - / 0.60	11.90 / 11.65 / 13.80	11.60 / 11.30 / 13.55
7.5	- / - / 1.15	- / - / -	11.70 / 11.20 / 13.45	11.55 / 10.70 / 13.65
8.0	- / - / 0.15	- / - / -	10.95 / 10.60 / 13.30	10.75 / 10.50 / 12.90
8.5	- / - / -	- / - / -	10.50 / 10.20 / 12.85	10.30 / 9.95 / 12.25
9.0	- / - / -	- / - / -	10.00 / 9.45 / 12.25	8.85 / 8.45 / 12.00



- rotationally symmetrical distribution
- minimum illuminance: 0.5 lx
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

NT1 Self contained emergency power supply for 1 hour
 NT3 Self contained emergency power supply for 3 hours
 Nxx NDA. NSI. NPS central battery

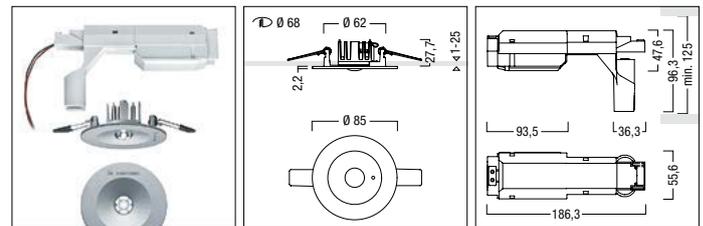


ONLITE RESCLITE antipanic ED ceiling-recessed



- [...]
- LED emergency luminaire for antipanic lighting to EN 1838
- Suitable for ceiling heights 2.2 to 9 m
- Luminaire housing of diecast aluminium, powder-coated white RAL 9016 or silver RAL 9006
- Includes PC gearbox for recessed ceiling installation
- Connecting lead between LED spot and control-gear box has strain-relief at both ends
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Tool-free quick-fit installation for all luminaire types
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Ceiling cut-out 68 mm
- Strain-relief for mains supply lead moulded onto gearbox; tool-free installation
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
- Suitable for recessed installation in concrete casting surround (please order separately)

Self contained with monitoring; white	electronic
RESCLITE C ANTIPANIC ED LED NT1 WH 1 h	42 180 410
RESCLITE C ANTIPANIC ED LED NT3 WH 3 h	42 180 411
Centrally supplied, white	
RESCLITE C ANTIPANIC ED LED NDA WH	42 180 413
RESCLITE C ANTIPANIC ED LED NPS WH electronic	42 180 815
RESCLITE C ANTIPANIC ED LED NSI WH	42 180 412
Self contained with monitoring; aluminium	electronic
RESCLITE C ANTIPANIC ED LED NT1 AL 1 h	42 180 414
RESCLITE C ANTIPANIC ED LED NT3 AL 3 h	42 180 415
Centrally supplied, aluminium	
RESCLITE C ANTIPANIC ED LED NDA AL	42 180 417
RESCLITE C ANTIPANIC ED LED NPS AL electronic	42 180 816
RESCLITE C ANTIPANIC ED LED NSI AL	42 180 416

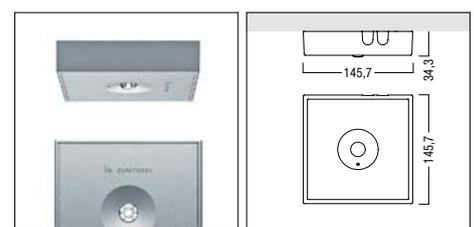


ONLITE RESCLITE antipanic AD ceiling surface-mount



- [...]
- LED emergency luminaire for antipanic lighting to EN 1838
- Suitable for ceiling heights 2.2 to 9 m
- Luminaire housing of diecast aluminium, powder-coated white RAL 9016 or silver RAL 9006
- Gear tray made of galvanised sheet steel
- Die-cast aluminium cover can be fitted without tools
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Can be installed on plaster surfaces with side cable entry
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)

Self contained with monitoring; white	electronic
RESCLITE C ANTIPANIC AD LED NT1 WH 1 h	42 180 402
RESCLITE C ANTIPANIC AD LED NT3 WH 3 h	42 180 403
Centrally supplied, white	
RESCLITE C ANTIPANIC AD LED NDA WH	42 180 405
RESCLITE C ANTIPANIC AD LED NPS WH electronic	42 180 813
RESCLITE C ANTIPANIC AD LED NSI WH	42 180 404
Self contained with monitoring; aluminium	electronic
RESCLITE C ANTIPANIC AD LED NT1 AL 1 h	42 180 406
RESCLITE C ANTIPANIC AD LED NT3 AL 3 h	42 180 407
Centrally supplied, aluminium	
RESCLITE C ANTIPANIC AD LED NDA AL	42 180 409
RESCLITE C ANTIPANIC AD LED NPS AL electronic	42 180 814
RESCLITE C ANTIPANIC AD LED NSI AL	42 180 408



ONLITE RESCLITE antipanic AD ceiling surface-mount IP65

Order no.



- [...]
- LED emergency luminaire for antipanic lighting to EN 1838
- Suitable for ceiling heights 2.2 to 9 m
- IP65 housing made of die-cast aluminium in white powder-coated finish, RAL 9016
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
- Cable entry from the rear or the side
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- PG cable glands can be used
- White cover made of fibreglass-reinforced PC with transparent PC light outlet

Self contained with monitoring; white

electronic

RESCLITE C ANTIPANIC AD LED NT1 IP65 WH 1 h

42 180 454

RESCLITE C ANTIPANIC AD LED NT3 IP65 WH 3 h

42 180 455

Centrally supplied, white

RESCLITE C ANTIPANIC AD LED NDA IP65 WH

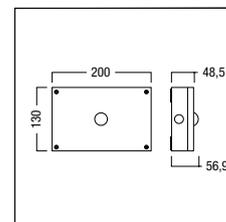
42 180 457

RESCLITE C ANTIPANIC AD LED NPS IP65 WH electronic

42 180 826

RESCLITE C ANTIPANIC AD LED NSI IP65 WH

42 180 456



ONLITE RESCLITE antipanic TEC TECTON continuous-row luminaire system

Order no.



- [...]
- LED emergency luminaire for antipanic lighting to EN 1838
- Suitable for ceiling heights 2.2 to 9 m
- Roll-formed sheet steel with white polyester resin enamel coating
- Status LED (NT1 and NT3) integrated in the transparent end caps
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Tool-free quick-fit installation for all luminaire types
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Tool-free connection to TECTON continuous row lighting system
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)

Self contained with monitoring; white

electronic

RESCLITE C ANTIPANIC TEC-GP LED NT1 WH 1 h

42 183 108

RESCLITE C ANTIPANIC TEC-GP LED NT3 WH 3 h

42 183 109

Centrally supplied, white

RESCLITE C ANTIPANIC TEC-GP LED NDA WH

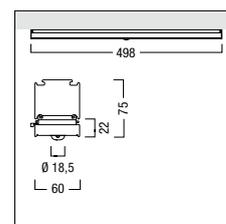
42 183 111

RESCLITE C ANTIPANIC TEC-GP LED NPS WH electronic

42 183 121

RESCLITE C ANTIPANIC TEC-GP LED NSI WH

42 183 110



ONLITE RESCLITE antipanic recessed kit

Order no.



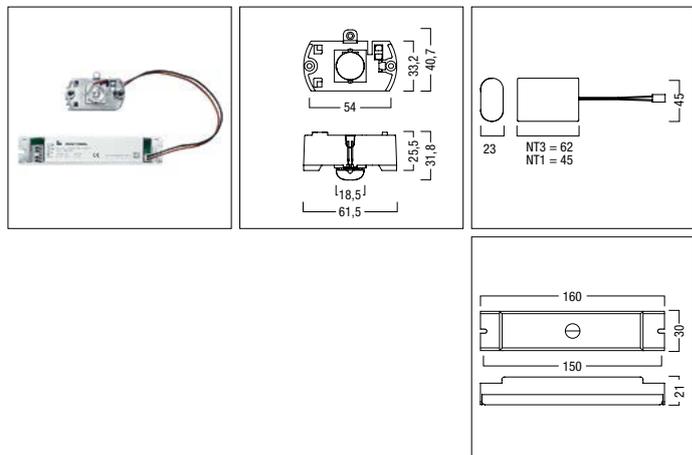
- [...]
- Kit for installing in standard luminaires
- LED emergency luminaire for antipanic lighting to EN 1838
- Suitable for ceiling heights 2.2 to 9 m
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)

Self contained with monitoring

RESCLITE C ANTIPANIC EMERGENCY SET NT1 1 h	22 166 844
RESCLITE C ANTIPANIC EMERGENCY SET NT3 3 h	22 166 845

Centrally supplied

RESCLITE C ANTIPANIC EMERGENCY SET NDA	22 166 847
RESCLITE C ANTIPANIC EMERGENCY SET NSI	22 166 846



ONLITE RESCLITE antipanic METRUM

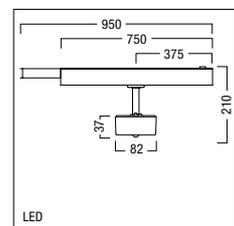
Order no.



- Can be fitted without tools to the METRUM continuous-row lighting system
- Optic can be rotated and locked in position
- Module lengths: 750 mm LED version, 735 mm T16 version
- Suitable for ceiling heights 2.2 to 9 m
- Large aluminium heat sink ensures optimum thermal management
- Status LED (NT1 and NT3) integrated in the transparent end caps
- End module terminate the continuous-row lighting
- Connected load of all RESCLITE types < 5 W; standby power (non-maintained mode) < 1.5 W
- 7-pole loop-in/loop-out wiring for 2.5 mm² leads
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Tool-free mechanical and electrical installation using CLIX technology
- NiMh battery can be replaced without tools in self-contained model NT1
- Intended for all luminaire types for use in self-contained (NT1 and NT3) battery systems
- Roll-formed sheet steel with white polyester resin enamel coating
- Luminaire pre-wired using halogen-free leads

Self contained with monitoring; white

RESCLITE C ANTIP MET LED NT1 H180 1 h	42 182 969
RESCLITE C ANTIP MET LED NT1 H180 END 1 h	42 182 972
RESCLITE C ANTIP MET T16 NT1 H180 1 h	42 182 963
RESCLITE C ANTIP MET T16 NT1 H180 END 1 h	42 182 973

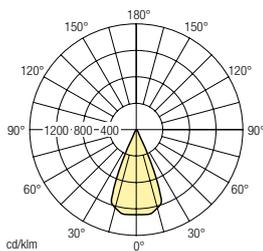


[...] Shared properties ONLITE RESCLITEONLITE RESCLITE

- Large aluminium heat sink ensures optimum thermal management
- Reflectors and lenses made of PC
- Connected load of all RESCLITE types < 5 W; standby power (non-maintained mode) < 1.5 W
- Luminaire pre-wired using halogen-free leads
- LED emergency luminaire for increased illuminance levels to EN 1838
- Suitable for ceiling heights 2.5 to 6 m
- Large aluminium heat sink ensures optimum thermal management
- Reflectors and lenses made of PC
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Connected load of all RESCLITE types < 5 W; standby power (non-maintained mode) < 1.5 W
- Plug-in terminals for through-wiring, max. 2.5 mm²
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- NT1 and NT3: 1 h and 3 h self-contained battery systems; NDA: eBox or CPS (DALI communication); NSI: eBox (Powerline communication); NPS: CPS or eBox (circuit monitoring)
- Luminaire pre-wired using halogen-free leads

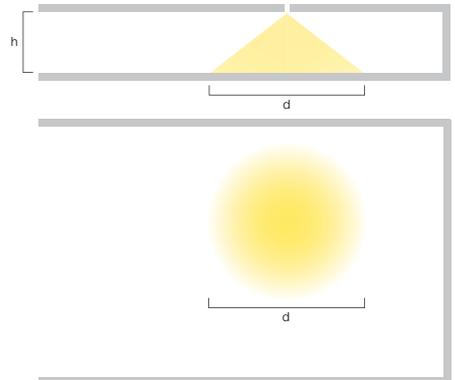
RESCLITE spot

LED emergency luminaire for increased illuminance levels according to EN 1838



At least 5 lx illuminance for first aid, fire-fighting and fire alarm points

Mounting height [m]	d Diameter of light cone		
	IP40 NT1 / NT3 / Nxx	IP65 NT1 / NT3 / Nxx	
2.2	2.70 / 2.60 / 2.80	2.70 / 2.70 / 2.80	
2.5	2.90 / 2.90 / 3.00	2.90 / 2.90 / 3.10	
3.0	3.10 / 3.10 / 3.30	3.00 / 2.90 / 3.30	
3.5	3.20 / 3.20 / 3.50	3.00 / 2.90 / 3.30	
4.0	3.30 / 3.30 / 3.60	3.00 / 2.90 / 3.40	
4.5	3.40 / 3.30 / 3.70	2.90 / 2.80 / 3.30	
5.0	3.30 / 3.20 / 3.80	2.70 / 2.60 / 3.30	
5.5	2.90 / 2.60 / 3.70	2.30 / 2.10 / 3.10	
6.0	0.90 / 0.70 / 3.50	- / - / 2.70	
6.5	- / - / 1.40	- / - / 2.10	
7.0	- / - / 0.60	- / - / -	



NT1 Self contained emergency power supply for 1 hour
 NT3 Self contained emergency power supply for 3 hours
 Nxx NSA. NDA. NPS central battery

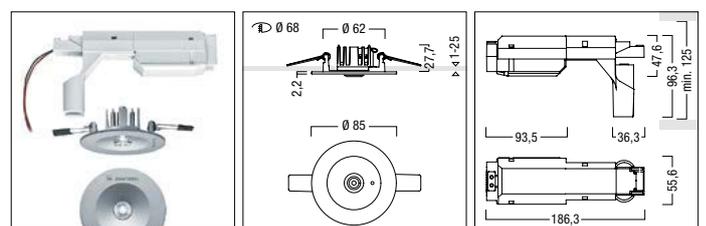
- rotationally symmetrical distribution
- minimal illuminance: 5 lx
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

ONLITE RESCLITE spot ED ceiling-recessed



- [...]
- Luminaire housing of diecast aluminium, powder-coated white RAL 9016 or silver RAL 9006
- Includes PC gearbox for recessed ceiling installation
- Connecting lead between LED spot and control-gear box has strain-relief at both ends
- Tool-free quick-fit installation for all luminaire types
- Ceiling cut-out 68 mm
- Strain-relief for mains supply lead moulded onto gearbox; tool-free installation
- Suitable for recessed installation in concrete casting surround (please order separately)

Self contained with monitoring; white	Order no.	electronic
RESCLITE C SPOT ED LED NT1 WH 1 h	42 180 426	
RESCLITE C SPOT ED LED NT3 WH 3 h	42 180 427	
Centrally supplied, white		
RESCLITE C SPOT ED LED NDA WH	42 180 429	
RESCLITE C SPOT ED LED NPS WH electronic	42 180 819	
RESCLITE C SPOT ED LED NSI WH	42 180 428	
Self contained with monitoring; aluminium		electronic
RESCLITE C SPOT ED LED NT1 AL 1 h	42 180 430	
RESCLITE C SPOT ED LED NT3 AL 3 h	42 180 431	
Centrally supplied, aluminium		
RESCLITE C SPOT ED LED NDA AL	42 180 433	
RESCLITE C SPOT ED LED NPS AL electronic	42 180 820	
RESCLITE C SPOT ED LED NSI AL	42 180 432	

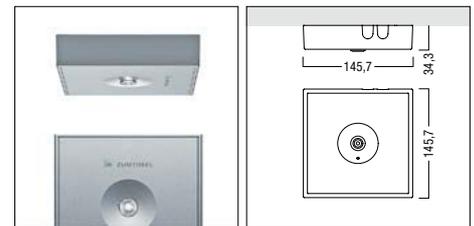


ONLITE RESCLITE spot AD ceiling surface-mount



- [...]
 - Luminaire housing of diecast aluminium, powder-coated white RAL 9016 or silver RAL 9006
 - Gear tray made of galvanised sheet steel
 - Die-cast aluminium cover can be fitted without tools
 - Can be installed on plaster surfaces with side cable entry

	Order no.
Self contained with monitoring; white	electronic
RESCLITE C SPOT AD LED NT1 WH 1 h	42 180 418
RESCLITE C SPOT AD LED NT3 WH 3 h	42 180 419
Centrally supplied, white	
RESCLITE C SPOT AD LED NDA WH	42 180 421
RESCLITE C SPOT AD LED NPS WH electronic	42 180 817
RESCLITE C SPOT AD LED NSI WH	42 180 420
Self contained with monitoring; aluminium	electronic
RESCLITE C SPOT AD LED NT1 AL 1 h	42 180 422
RESCLITE C SPOT AD LED NT3 AL 3 h	42 180 423
Centrally supplied, aluminium	
RESCLITE C SPOT AD LED NDA AL	42 180 425
RESCLITE C SPOT AD LED NPS AL electronic	42 180 818
RESCLITE C SPOT AD LED NSI AL	42 180 424

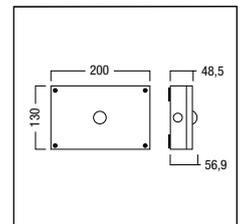


ONLITE RESCLITE spot AD ceiling surface-mount IP65



- [...]
 - IP65 housing made of die-cast aluminium in white powder-coated finish, RAL 9016
 - Cable entry from the rear or the side
 - Tool-free quick-fit installation for all luminaire types
 - PG cable glands can be used
 - White cover made of fibreglass-reinforced PC with transparent PC light outlet

	Order no.
Self contained with monitoring; white	electronic
RESCLITE C SPOT AD LED NT1 IP65 WH 1 h	42 180 450
RESCLITE C SPOT AD LED NT3 IP65 WH 3 h	42 180 451
Centrally supplied, white	
RESCLITE C SPOT AD LED NDA IP65 WH	42 180 453
RESCLITE C SPOT AD LED NPS IP65 WH electronic	42 180 825
RESCLITE C SPOT AD LED NSI IP65 WH	42 180 452

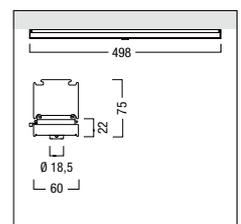


ONLITE RESCLITE spot TEC TECTON continuous-row lighting system



- [...]
 - Roll-formed sheet steel with white polyester resin enamel coating
 - Status LED (NT1 and NT3) integrated in the transparent end caps
 - Phase selection for 3 phase circuits and 2 emergency lighting circuits
 - Tool-free quick-fit installation for all luminaire types
 - Tool-free connection to TECTON continuous row lighting system

	Order no.
Self contained with monitoring; white	electronic
RESCLITE C SPOT TEC-GP LED NT1 WH 1 h	42 183 112
RESCLITE C SPOT TEC-GP LED NT3 WH 3 h	42 183 113
Centrally supplied, white	
RESCLITE C SPOT TEC-GP LED NDA WH	42 183 115
RESCLITE C SPOT TEC-GP LED NPS WH electronic	42 183 122
RESCLITE C SPOT TEC-GP LED NSI WH	42 183 114



ONLITE RESCLITE spot recessed set



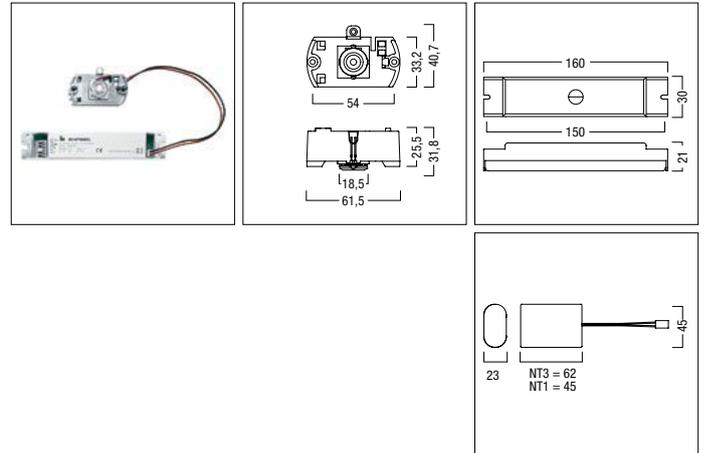
- [...]]
- Kit for installing in standard luminaires

Self contained with monitoring

	Order no.
RESCLITE C SPOT EMERGENCY SET NT1 1 h	22 166 848
RESCLITE C SPOT EMERGENCY SET NT3 3 h	22 166 849

Centrally supplied

RESCLITE C SPOT EMERGENCY SET DALI	22 166 851
RESCLITE C SPOT EMERGENCY SET NSI	22 166 850

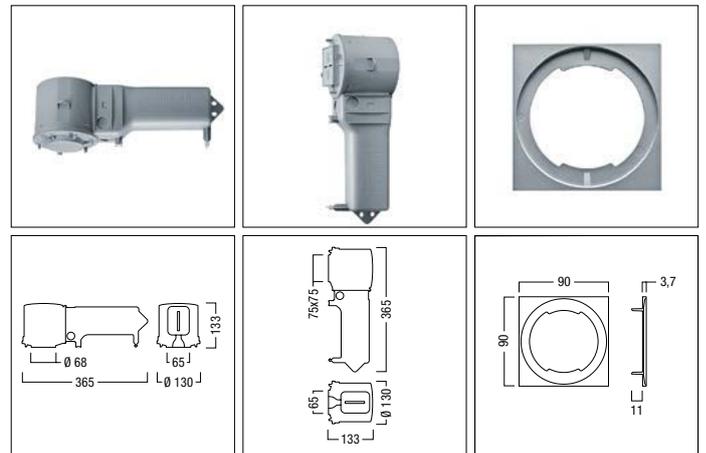


ONLITE RESCLITE installation accessories

- Concrete casting surround for installing RESCLITE ED/EW in concrete ceilings/walls
- Die-cast aluminium in powder-coated finish
- Includes transformer tunnel for housing the gearbox
- Includes front section
- For use in ceilings/walls of thickness 160 mm and above
- Square trim for fitting to RESCLITE ceiling-recessed luminaires

	L/W/H	Order no.
RESCLITE C AD BESA Mounting plate	144/144/1	22 166 853
RESCLITE C ED Q90 AL Aluminium trim	90/90/4	22 166 855
RESCLITE C ED Q90 WH White trim	90/90/4	22 166 854
RESCLITE C GEH Beton ED Concrete casting surround, ceiling	365/130/133	22 166 852
RESCLITE C WALL EW EBG concrete casting surround, wall	416/100/133	22 166 856

650 °C

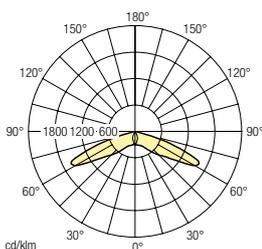


[...] Shared properties ONLITE RESCLITE HC

- LED emergency luminaire for escape route illumination to EN 1838
- IP65 housing made of die-cast aluminium in white powder-coated finish, RAL 9016
- Large aluminium heat sink ensures optimum thermal management
- Cover made of fibre-glass reinforced PC with transparent PC light outlet
- Polycarbonate lens
- 2 high-power LEDs, cool white
- Plug-in terminals for through-wiring, max. 2.5 mm²
- Intended for use in group battery systems (NSI, NPS) and central battery systems (NDA, NPS)
- Rotary switch for setting address mechanically (excludes NPS)
- Emergency lighting level can be set from 10–100 % (NPS not dimmable), factory set to 100 %
- Temperature range: non-maintained mode, maintained mode (NDA/NPS: -20 °C ... +40 °C) (NSI: -5 °C ... +35 °C)
- Installed load of all RESCLITE models < 5.5 W; standby power (non-maintained mode) < 1.5 W
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Total luminous flux of luminaires: 250 lm
- Luminaire is ballproof to DIN standard 18032 Part 2
- Halogen-free wiring used in luminaire
- Straightforward screw-fitting for luminaire

RESCLITE escape high ceilings

LED emergency luminaire for room/areas with high ceilings according to EN 1838



RESCLITE escape high ceilings

Mounting height [h]	Wall / luminaire	Luminaire / luminaire
	NDA / NSI / NPS	NDA / NSI / NPS
7.0	7.45	17.75
8.0	8.00	19.10
9.0	8.50	20.35
10.0	8.35	21.20
11.0	5.95	22.30
12.0	6.00	21.90
13.0	6.00	22.15
14.0	5.25	21.10
15.0	4.20	20.35
16.0	2.90	16.80
17.0	-	17.05
18.0	-	16.15
19.0	-	14.80
20.0	-	10.45
21.0	-	9.65
22.0	-	7.10
23.0	-	4.00



- width of escape route: 2 m
- minimal illuminance on 1 m width: 1 lx
- minimal illuminance on half of escape route width: 0.5 lx
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

NDA, NSI, NPS Central battery

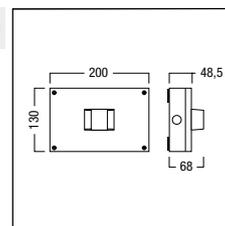
ONLITE RESCLITE escape high ceilings AD ceiling surface-mount



- [...]
- Suitable for high ceilings of height 7 to 23 m
- Cable entry from the rear or the side
- PG cable glands can be used

Centrally supplied, white

RESCLITE C ESCAPE HC AD NDA IP65 WH	42 181 594
RESCLITE C ESCAPE HC AD NPS IP65 WH electronic	42 181 596
RESCLITE C ESCAPE HC AD NSI IP65 WH	42 181 595



Order no.

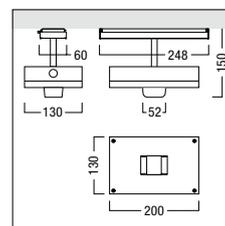
ONLITE RESCLITE escape high ceilings TEC TECTON



- [...]
- Suitable for high ceilings of height 7 to 23 m
- Can be fitted without tools to the TECTON continuous-row lighting system; optic can be rotated and locked in position
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Roll-formed sheet steel with white polyester resin enamel coating

Centrally supplied, white

RESCLITE C ESCAPE HC TEC-GP NDA IP65 WH	42 183 124
RESCLITE C ESCAPE HC TEC-GP NPS IP65 WH electronic	42 183 126
RESCLITE C ESCAPE HC TEC-GP NSI IP65 WH	42 183 125

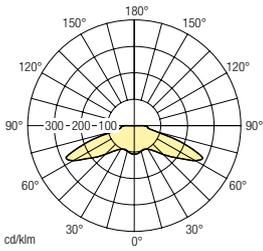


Order no.



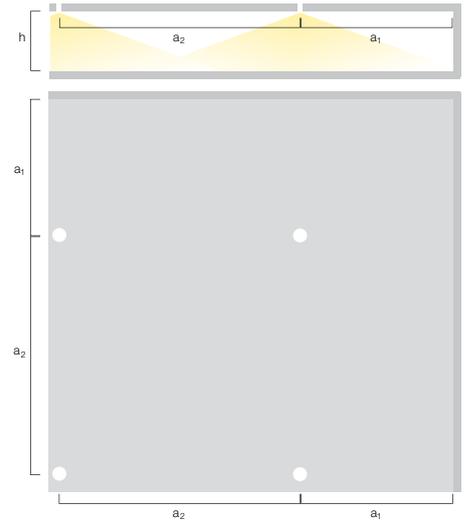
RESCLITE antipanic high ceilings

LED emergency luminaire for room/areas with high ceilings according to EN 1838



RESCLITE antipanic high ceilings

Mounting height [h]	Wall / luminaire	Luminaire / luminaire max. distance [m]
	NDA/NSI/NPS	NDA/NSI/NPS
9.0	4.55	11.65
10.0	4.80	12.45
11.0	5.00	13.25
12.0	5.10	14.05
13.0	5.10	14.90
14.0	4.85	15.65
15.0	4.30	16.40
16.0	-	17.05
17.0	-	15.85
18.0	-	14.50
19.0	-	14.00
20.0	-	13.80
21.0	-	13.85
22.0	-	14.00
23.0	-	14.15
24.0	-	14.10
25.0	-	13.95
26.0	-	13.25
27.0	-	12.60
28.0	-	11.95
29.0	-	11.25
30.0	-	9.85



- rotationally symmetrical distribution
- minimum illuminance: 0.5 lx
- uniformity greater than 40:1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

NDA, NSI, NPS Central battery

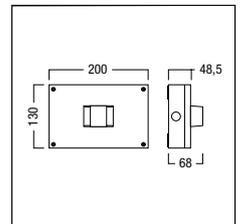
ONLITE RESCLITE anti-panic high ceilings AD ceiling surface-mount



- [...]]
- Suitable for high ceilings of height 9 to 30 m
- Cable entry from the rear or the side
- PG cable glands can be used

Centrally supplied, white

RESCLITE C ANTIPANIC HC AD NDA IP65 WH	42 181 600
RESCLITE C ANTIPANIC HC AD NPS IP65 WH electronic	42 181 602
RESCLITE C ANTIPANIC HC AD NSI IP65 WH	42 181 601



Order no.

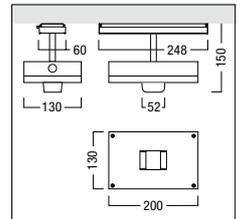
ONLITE RESCLITE anti-panic high ceilings TEC TECTON



- [...]]
- Suitable for high ceilings of height 9 to 30 m
- Can be fitted without tools to the TECTON continuous-row lighting system; optic can be rotated and locked in position
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Roll-formed sheet steel with white polyester resin enamel coating

Centrally supplied, white

RESCLITE C ANTIPANIC HC TEC-GP NDA IP65 WH	42 183 131
RESCLITE C ANTIPANIC HC TEC-GP NPS IP65 WH electronic	42 183 133
RESCLITE C ANTIPANIC HC TEC-GP NSI IP65 WH	42 183 132



Order no.

ONLITE RESCLITE high ceilings installation accessories



Accessory

RESCLITE C HC ASI 5000	22 169 078
RESCLITE C HC BWS Schutzgitter	22 169 079

Order no.





ONLITE PURESIGN 150



2013 ■

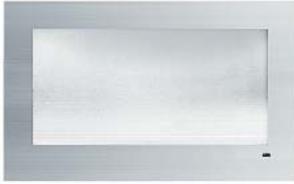
ONLITE escape sign luminaires

Safety for success

ONLITE is based on extensive expertise in the area of “emergency lighting”. From one source, clearly structured, and providing a perfect solution for any application. ONLITE allows to combine general lighting and emergency lighting into one unit which performs both tasks. In this context, great importance was attached to functional integration of the escape sign and emergency luminaires into the architecture.

ONLITE ARTSIGN EW wall recessed

Order no.



- Housing made of extruded aluminium section
- LED control gear with “maintenance function” for constant luminance over the entire lifetime of the luminaire
- Power consumption: NT1 (3.17 W), NT3 (3.17 W)
- Power consumption: NSI (2.67 W), NDA (2.67 W)
- Luminaire and escape sign fitted without tools
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Plug-in terminals for through-wiring, max. 2.5 mm²

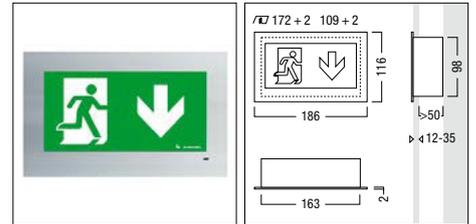
Self contained with monitoring

ARTSIGN C EW LED NT1 1 h	42 180 541
ARTSIGN C EW LED NT3 3 h	42 180 542

Centrally supplied

ARTSIGN C EW LED NDA	42 180 544
ARTSIGN C EW LED NSI	42 180 543

Please order escape signs separately



ONLITE ARTSIGN EW escape sign RZ

Order no.

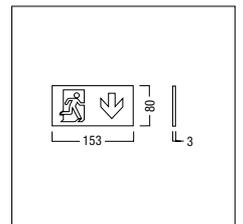


- Panel made of diffuser pearl material with printed escape sign according to direction
- Fits without tools to recessed wall luminaire
- Uniform backlighting of pictograms with a luminance of more than 500 cd/m² in the white area

Escape sign

ARTSIGN C EW RZ-1L left arrow	22 166 893
ARTSIGN C EW RZ-1O pointing up	22 900 379
ARTSIGN C EW RZ-1R right arrow	22 166 894
ARTSIGN C EW RZ-1U down arrow	22 166 895

DIN 4844 500 cd/m² 15 m EN 1838



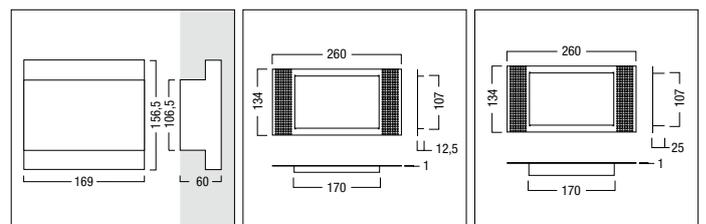
ONLITE ARTSIGN EW installation accessories

Order no.

- Concrete casting surround for recessed installation in concrete walls
- Prepared for tube installation
- Housing made of galvanised sheet steel
- For use in exposed concrete ceilings and also in ceilings to be plastered later
- Mounting frame designed to protect the edges of an ARTSIGN escape sign luminaire during fitting/removal in plasterboard or fibreboard
- Mounting frame required for walls of thickness less than 12 mm to ensure the mounting clips are held properly

Accessory

ARTSIGN C AW GEH Surface-mount housing	22 166 899
ARTSIGN C EW ER 12.5 mm Mounting surround	22 166 902
ARTSIGN C EW ER 25 mm Mounting surround	22 166 903
ARTSIGN C EW GEH Beton Concrete casting surround, wall	22 168 743



ONLITE ARTSIGN ED ceiling recessed RZ

Order no.



- LED ceiling recessed luminaire
- Housing made of extruded aluminium section
- LED control gear with “maintenance function” for constant luminance over the entire lifetime of the luminaire
- Power consumption: NT1 (3.17 W), NT3 (3.17 W)
- Power consumption: NSI (2.67 W), NDA (2.67 W)
- Acrylic glass panel with escape sign printed on one or both sides
- Single-sided escape sign printed in white on rear
- Uniform backlighting of pictograms with a luminance of more than 500 cd/m² in the white area
- NiMH batteries for self-contained models (NT1 and NT3)
- Luminaire can be installed without tools
- Plug-in terminals for through-wiring, max. 2.5 mm²

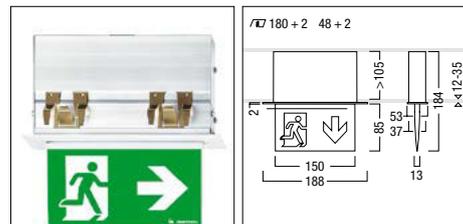
Self contained with monitoring

ARTSIGN C ED NT1 RZ-1L 1x left arrow, 1x white unprinted	42 180 545
ARTSIGN C ED NT1 RZ-1O 1x pointing up, 1x white unprinted	42 925 507
ARTSIGN C ED NT1 RZ-1R 1x right arrow, 1x white unprinted	42 180 546
ARTSIGN C ED NT1 RZ-1U 1x down arrow, 1x white unprinted	42 180 547
ARTSIGN C ED NT1 RZ-2LR 2x left/right arrow	42 180 525
ARTSIGN C ED NT1 RZ-2O 2x pointing up	42 925 508
ARTSIGN C ED NT1 RZ-2U 2x down arrow	42 180 526
ARTSIGN C ED NT3 RZ-1L 1x left arrow, 1x white unprinted	42 180 548
ARTSIGN C ED NT3 RZ-1O 1x pointing up, 1x white unprinted	42 925 515
ARTSIGN C ED NT3 RZ-1R 1x right arrow, 1x white unprinted	42 180 549
ARTSIGN C ED NT3 RZ-1U 1x pointing down, 1x white unprinted	42 180 550
ARTSIGN C ED NT3 RZ-2LR 2x left/right arrow	42 180 527
ARTSIGN C ED NT3 RZ-2O 2x pointing up	42 925 516
ARTSIGN C ED NT3 RZ-2U 2x pointing down	42 180 528

electronic

Centrally supplied

ARTSIGN C ED NDA 2RZ-1L 1x left arrow, 1x white unprinted	42 180 554
ARTSIGN C ED NDA 2RZ-1R 1x right arrow, 1x white unprinted	42 180 555
ARTSIGN C ED NDA 2RZ-1U 1x down arrow, 1x white unprinted	42 180 556
ARTSIGN C ED NDA 2RZ-2U 2x down arrows	42 180 532
ARTSIGN C ED NDA 2RZ-LR 2x right/left arrows	42 180 531
ARTSIGN C ED NDA RZ-1O 1x pointing up, 1x white unprinted	42 925 523
ARTSIGN C ED NDA RZ-2O 2x pointing up	42 925 524
ARTSIGN C ED NSI 2RZ-1L 1x left arrow, 1x white unprinted	42 180 551
ARTSIGN C ED NSI RZ-1O 1x pointing up, 1x white unprinted	42 925 531
ARTSIGN C ED NSI RZ-1R 1x right arrow, 1x white unprinted	42 180 552
ARTSIGN C ED NSI RZ-1U 1x down arrow, 1x white unprinted	42 180 553
ARTSIGN C ED NSI RZ-2LR 2x right/left arrows	42 180 529
ARTSIGN C ED NSI RZ-2O 2x pointing up	42 925 532
ARTSIGN C ED NSI RZ-2U 2x down arrows	42 180 530



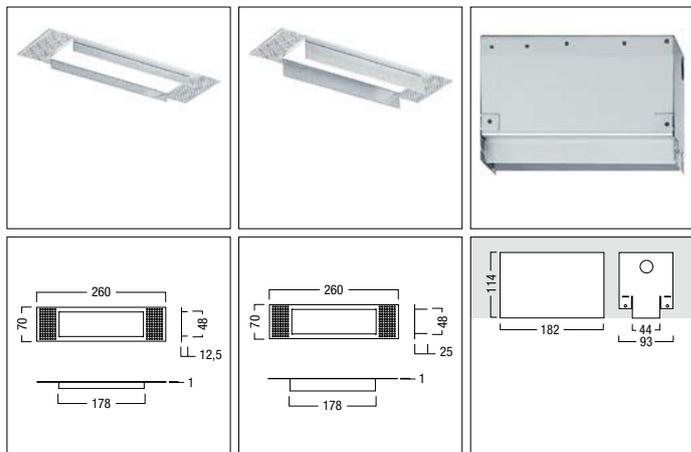
ONLITE ARTSIGN ED installation accessories

Order no.

- Concrete casting surround made of galvanized sheet steel; ready for conduit installation
- For use in exposed concrete ceilings and also in ceilings to be plastered later
- Mounting frame designed to protect the edges of an ARTSIGN escape sign luminaire during fitting/removal in plasterboard or fibreboard
- Mounting frame required for walls of thickness less than 12 mm to ensure the mounting clips are held properly

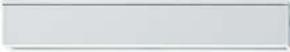
Accessory

ARTSIGN C ED ER 12,5 mm Mounting surround	22 166 900
ARTSIGN C ED ER 25 mm Mounting surround	22 166 901
ARTSIGN C ED GEH Beton Concrete casting surround, ceiling	22 168 742



ONLITE COMSIGN150 AD ceiling surface-mount

Order no.



- Two-piece surface-mount housing made of die cast aluminium to fit COMSIGN 150 and PURESIGN 150
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and escape sign
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- LED control gear with “Maintenance Function” guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

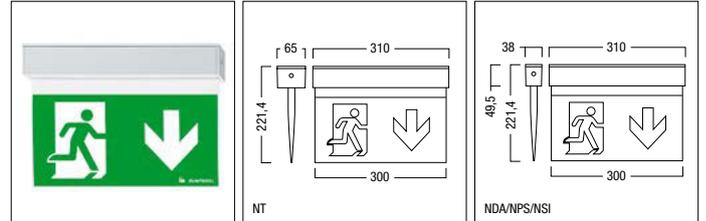
Self contained with monitoring

PURESIGN/COMSIGN 150 AD NT1 1 h	42 180 886
PURESIGN/COMSIGN 150 AD NT3 3 h	42 180 887

Centrally supplied

PURESIGN/COMSIGN 150 AD NDA	42 180 884
PURESIGN/COMSIGN 150 AD NPS electronic	42 180 885
PURESIGN/COMSIGN 150 AD NSI	42 180 883

Please order escape signs separately (including LED and aluminium cover).



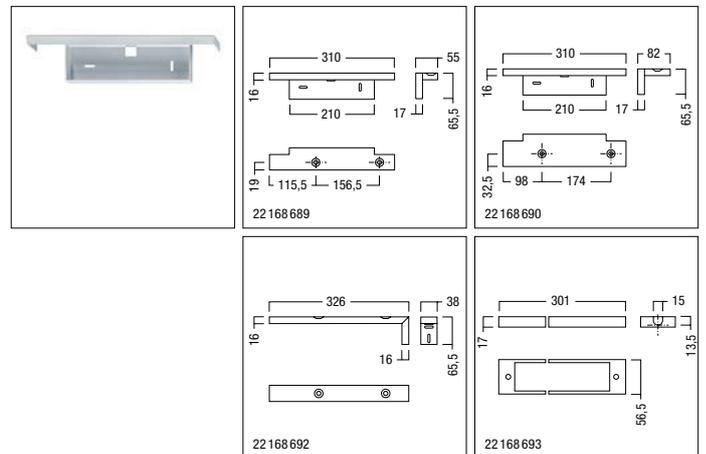
ONLITE COMSIGN 150 installation accessories

Order no.

- 90° bracket made of sheet steel, powder-coated silver, similar to RAL 7035
- Cable duct concealed in mounting bracket
- Extension frame for side cable feed

Accessory

COMSIGN 150 AW 180° NDA/NSI/NPS Wall bracket for parallel surface-mounting	22 168 690
COMSIGN 150 AW 180° NTx Wall bracket for parallel surface-mounting	22 168 689
PURESIGN/COMSIGN 150 AW 90° NDA/NSI/NPS Wall bracket for surface-mounting	22 168 692
PURESIGN/COMSIGN 150 AW 90° NTx Wall bracket for surface-mounting	22 168 691
PURESIGN/COMSIGN 150 FRAME NDA/NSI/NPS Surround	22 168 694
PURESIGN/COMSIGN 150 FRAME NTx Surround	22 168 693



ONLITE COMSIGN 150 ED ceiling-recessed



- Sheet-steel recessed housing in silver powder-coated finish, similar to RAL 7035
- Ultra-simple to fit using level-adjustment kit (included) designed for COMSIGN 150 and PURESIGN 150
- Extruded aluminium cover in powder-coated silver-look finish
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- LED control gear with “Maintenance Function” guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

Self contained with monitoring

PURESIGN/COMSIGN 150 ED NT1 1 h	42 180 889
PURESIGN/COMSIGN 150 ED NT3 3 h	42 180 890

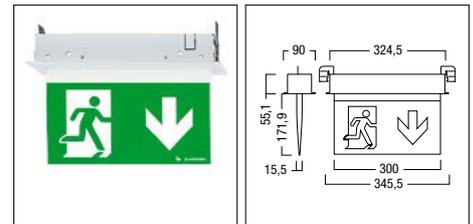
Centrally supplied

PURESIGN/COMSIGN 150 ED NDA	42 180 949
PURESIGN/COMSIGN 150 ED NPS electronic	42 180 893
PURESIGN/COMSIGN 150 ED NSI	42 180 892

Accessory

PURESIGN/COMSIGN 150 ED GEH BETON Concrete casting surround	22 168 778
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Please order escape signs separately (including LED and aluminium cover).



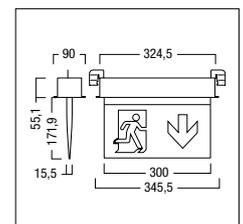
ONLITE COMSIGN 150 AD/ED escape sign RZ



- Acrylic glass panel with single-sided or dual-sided digitally printed escape route symbol
- LED cover made of die-cast aluminium in powder-coated silver-look finish
- Single-sided escape sign is printed white on rear
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Escape sign 2Rx-LR, left or right direction by rotating luminaire

Escape sign

COMSIGN 150 AD/ED RZ-1L 1x left arrow, 1x white unprinted	22 168 640
COMSIGN 150 AD/ED RZ-1LO 1x pointing left up, 1x white unprinted	22 900 396
COMSIGN 150 AD/ED RZ-1LU 1x pointing left down, 1x white unprinted	22 900 397
COMSIGN 150 AD/ED RZ-1O 1x pointing up, 1x white unprinted	22 900 392
COMSIGN 150 AD/ED RZ-1R 1x right arrow, 1x white unprinted	22 168 650
COMSIGN 150 AD/ED RZ-1RO 1x pointing right up, 1x white unprinted	22 900 394
COMSIGN 150 AD/ED RZ-1RU 1x pointing right down, 1x white unprinted	22 900 395
COMSIGN 150 AD/ED RZ-1U 1x down arrow, 1x white unprinted	22 168 651
COMSIGN 150 AD/ED RZ-2LR 2x right/left arrows	22 168 652
COMSIGN 150 AD/ED RZ-2LRO 1x pointing left up, 1x pointing right up	22 900 398
COMSIGN 150 AD/ED RZ-2LRU 1x pointing left down, 1x pointing right down	22 900 399
COMSIGN 150 AD/ED RZ-2O 2x pointing up	22 900 393
COMSIGN 150 AD/ED RZ-2U 2x down arrows	22 168 653



[...] Shared properties ONLITE COMSIGN 150

- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

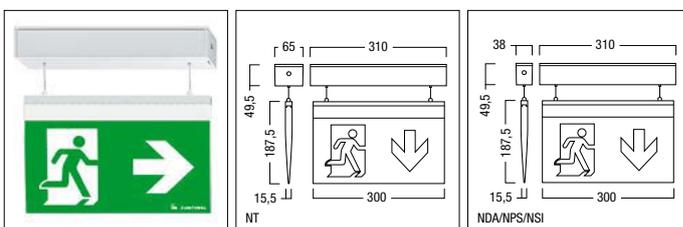
ONLITE COMSIGN 150 ASI surface-mount, cord



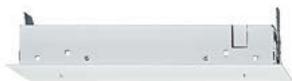
- [...]
- Two-piece surface-mount housing made of die-cast aluminium designed to fit pictograms with cord suspension from COMSIGN 150 and PURESIGN 150 range
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and escape sign
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out

Self contained with monitoring	Order no.	electronic
PURESIGN/COMSIGN 150 ASI NT1 1 h	42 180 902	
PURESIGN/COMSIGN 150 ASI NT3 3 h	42 180 903	
Centrally supplied		
PURESIGN/COMSIGN 150 ASI NDA	42 180 900	
PURESIGN/COMSIGN 150 ASI NPS electronic	42 180 901	
PURESIGN/COMSIGN 150 ASI NSI	42 180 899	

Please order escape signs separately (including LED and aluminium cover).



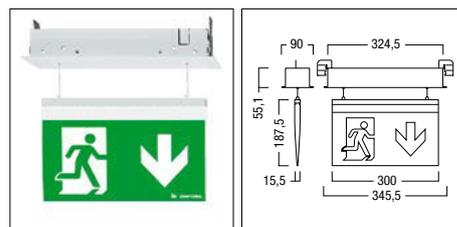
ONLITE COMSIGN 150 ESI recessed, cord



- [...]
- Sheet-steel recessed housing in silver powder-coated finish, similar to RAL 7035
- Ultra-easy to fit using level-adjustment kit (included) designed for pictograms with cord suspension from COMSIGN 150 and PURESIGN 150
- Extruded aluminium cover in powder-coated silver-look finish
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out

Self contained with monitoring	Order no.	electronic
PURESIGN/COMSIGN 150 ESI NT1 1 h	42 180 905	
PURESIGN/COMSIGN 150 ESI NT3 3 h	42 180 906	
Centrally supplied		
PURESIGN/COMSIGN 150 ESI NDA	42 180 909	
PURESIGN/COMSIGN 150 ESI NPS electronic	42 180 910	
PURESIGN/COMSIGN 150 ESI NSI	42 180 908	

Please order escape signs separately (including LED and aluminium cover).



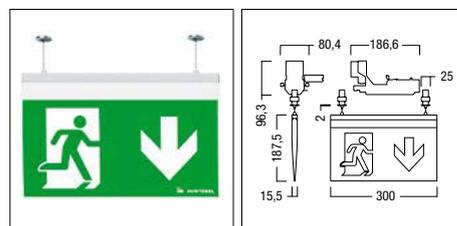
ONLITE COMSIGN 150 RSI remote, cord



- [...]
- Polycarbonate gearbox for installation in ceiling recess in modular ceilings
- Connecting lead between escape sign and gearbox fitted with strain relief at both ends suitable for COMSIGN 150 and PURESIGN 150 pictograms with cord suspension
- Level can be adjusted without tools using ceiling attachments
- Plug-in terminals for loop-in/loop-out conductor up to 2.5 mm²

Self contained with monitoring	Order no.	electronic
PURESIGN/COMSIGN 150 RSI NT1 1 h	42 180 911	
PURESIGN/COMSIGN 150 RSI NT3 3 h	42 180 912	
Centrally supplied		
PURESIGN/COMSIGN 150 RSI NDA	42 180 915	
PURESIGN/COMSIGN 150 RSI NPS electronic	42 180 916	
PURESIGN/COMSIGN 150 RSI NSI	42 180 914	

Please order escape signs separately (including LED and aluminium cover).



ONLITE COMSIGN 150 ASI/ESI/RSI escape sign RZ

Order no.



- Acrylic glass panel with single-sided or dual-sided digitally printed escape route symbol
- LED cover made of die-cast aluminium in powder-coated silver-look finish
- Single-sided escape sign is printed white on rear
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Fitted to base unit without tools via insulated steel cord
- Escape sign 2Rx-LR, left or right direction by rotating luminaire

Escape sign

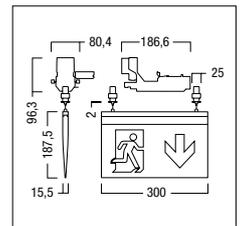
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1L 1x left arrow, 1x white unprinted	22 168 679
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1LO 1x pointing left up, 1x white unprinted	22 900 388
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1LU 1x pointing left down, 1x white unprinted	22 900 389
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1O 1x pointing up, 1x white unprinted	22 900 384
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1R 1x right arrow, 1x white unprinted	22 168 680
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1RO 1x pointing right up, 1x white unprinted	22 900 386
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1RU 1x pointing right down, 1x white unprinted	22 900 387
COMSIGN 150 ASI/ESI/RSI 1500 RZ-1U 1x down arrow, 1x white unprinted	22 168 681
COMSIGN 150 ASI/ESI/RSI 1500 RZ-2LR 2x right/left arrows	22 168 682
COMSIGN 150 ASI/ESI/RSI 1500 RZ-2LRO 1x pointing left up, 1x pointing right up	22 900 390
COMSIGN 150 ASI/ESI/RSI 1500 RZ-2LRU 1x pointing left down, 1x pointing right down	22 900 391
COMSIGN 150 ASI/ESI/RSI 1500 RZ-2O 2x pointing up	22 900 385
COMSIGN 150 ASI/ESI/RSI 1500 RZ-2U 2x down arrows	22 168 683

DIN 4844
500 cd/m²

30m
EN 1838

850 °C

incl. LED



[...] Shared properties ONLITE PURESIGN 150 AW/EW ERI

- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- ERI (Escape Route Illumination) using two rotatable LED spots as versatile emergency lighting
- Installed load: NT1 (4.5 W), NT3 (5.2 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

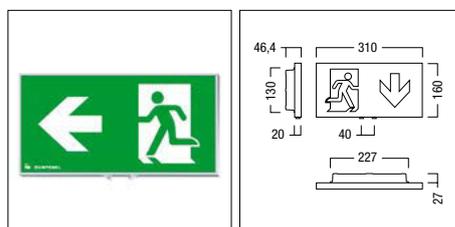
ONLITE PURESIGN 150 AW ERI surface-mount, wall



- [...]
- Surface-mount wall housing made of white polycarbonate for PURESIGN 150 ERI
- Straightforward screw-fitting for luminaire

Self contained with monitoring	Order no.
PURESIGN 150 AW NT1 ERI 1 h	42 180 939
PURESIGN 150 AW NT3 ERI 3 h	42 180 940
Centrally supplied	
PURESIGN 150 AW NDA ERI	42 180 942
PURESIGN 150 AW NSI ERI	42 180 941

Please order escape signs separately (including LED and aluminium frame).



ONLITE PURESIGN 150 EW ERI recessed, wall



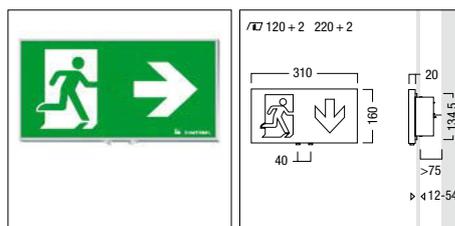
- [...]
- Wall-recessed housing made of white powder-coated sheet steel for PURESIGN 150 ERI
- Ultra-simple to fit thanks to leveling kit (included)

Self contained with monitoring	Order no.
PURESIGN 150 EW NT1 ERI 1 h	42 180 944
PURESIGN 150 EW NT3 ERI 3 h	42 180 945
Centrally supplied	
PURESIGN 150 EW NDA ERI	42 180 947
PURESIGN 150 EW NSI ERI	42 180 946

Accessory

PURESIGN 150 EW GEH BETON Concrete casting surround	22 168 777
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Please order escape signs separately (including LED and aluminium frame).



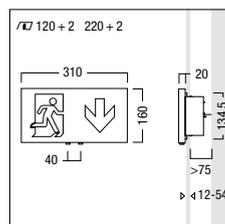
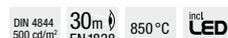
ONLITE PURESIGN 150 AW/EW ERI escape sign RZ



- Extruded aluminium designer surround in powder-coated, silver-look finish
- ERI (Escape Route Illumination) LEDs and adjustable lenses
- Plastic diffuser made of PC with digitally printed escape route symbol
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Tool-free installation on base unit

Escape sign

Escape sign	Order no.
PURESIGN 150 AW/EW RZ-1L ERI left arrow	22 168 701
PURESIGN 150 AW/EW RZ-1LO ERI pointing left up	22 900 417
PURESIGN 150 AW/EW RZ-1LU ERI pointing left down	22 900 419
PURESIGN 150 AW/EW RZ-1O ERI pointing up	22 900 411
PURESIGN 150 AW/EW RZ-1R ERI right arrow	22 168 702
PURESIGN 150 AW/EW RZ-1RO ERI pointing right up	22 900 413
PURESIGN 150 AW/EW RZ-1RU ERI pointing right down	22 900 415
PURESIGN 150 AW/EW RZ-1U ERI down arrow	22 168 703



[...] Shared properties ONLITE PURESIGN 150 AW/EW

- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

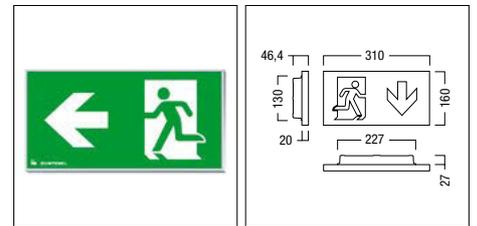
ONLITE PURESIGN 150 AW surface-mount, wall



- [...]
- Surface-mount wall housing made of white polycarbonate for PURESIGN 150
- Straightforward screw-fitting for luminaire

Self contained with monitoring	Order no.
PURESIGN 150 AW NT1 1 h	<i>electronic</i> 42 180 927
PURESIGN 150 AW NT3 3 h	42 180 928
Centrally supplied	
PURESIGN 150 AW NDA	42 180 931
PURESIGN 150 AW NPS electronic	42 180 932
PURESIGN 150 AW NSI	42 180 930

Please order escape signs separately (including LED and aluminium frame).



ONLITE PURESIGN 150 EW surface-mount, wall

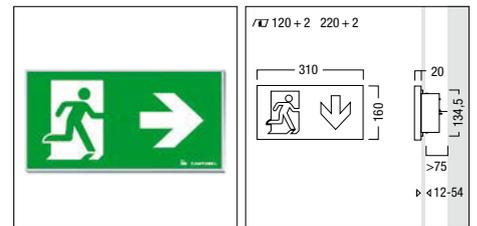


- [...]
- Wall-recessed housing made of white powder-coated sheet steel for PURESIGN 150
- Ultra-simple to fit thanks to leveling kit (included)

Self contained with monitoring	Order no.
PURESIGN 150 EW NT1 1 h	<i>electronic</i> 42 180 933
PURESIGN 150 EW NT3 3 h	42 180 934
Centrally supplied	
PURESIGN 150 EW NDA	42 180 937
PURESIGN 150 EW NPS electronic	42 180 938
PURESIGN 150 EW NSI	42 180 936

Accessory	
PURESIGN 150 EW GEH BETON Concrete casting surround	22 168 777

Please order escape signs separately (including LED and aluminium frame).



ONLITE PURESIGN 150 AW/EW escape sign RZ

Order no.

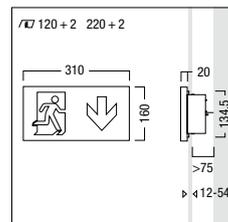


- Extruded aluminium designer surround in powder-coated, silver-look finish
- Plastic diffuser made of PC with digitally printed escape route symbol
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Tool-free installation on base unit

Escape sign

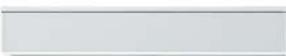
PURESIGN 150 AW/EW RZ-1L left arrow	22 168 695
PURESIGN 150 AW/EW RZ-1LO pointing left up	22 900 416
PURESIGN 150 AW/EW RZ-1LU pointing left down	22 900 418
PURESIGN 150 AW/EW RZ-1O pointing up	22 900 410
PURESIGN 150 AW/EW RZ-1R right arrow	22 168 696
PURESIGN 150 AW/EW RZ-1RO pointing right up	22 900 412
PURESIGN 150 AW/EW RZ-1RU pointing right down	22 900 414
PURESIGN 150 AW/EW RZ-1U down arrow	22 168 697

DIN 4844 500 cd/m² 30m EN 1838 850 °C incl LED



ONLITE PURESIGN 150 AD ERI ceiling surface-mount

Order no.



- Two-piece surface-mount housing made of die-cast aluminium designed to fit PURESIGN 150 ERI
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and escape sign
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- ERI (Escape Route Illumination) using two rotatable LED spots as versatile emergency lighting
- Installed load: NT1 (4.5 W), NT3 (5.2 W)
- Installed load: NSI (5 W), NDA (4.5 W)

Self contained with monitoring

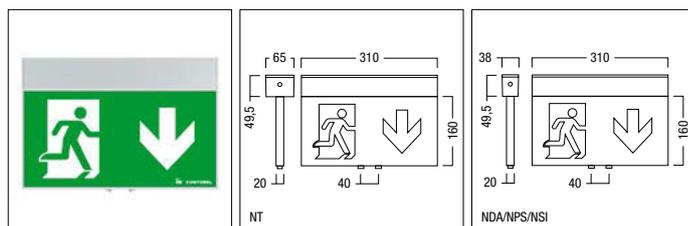
PURESIGN 150 AD NT1 ERI 1 h	42 180 920
PURESIGN 150 AD NT3 ERI 3 h	42 180 921

Centrally supplied

PURESIGN 150 AD NDA ERI	42 180 918
PURESIGN 150 AD NSI ERI	42 180 917

Please order escape signs separately (including LED and aluminium frame).

halogen 850 °C incl LED



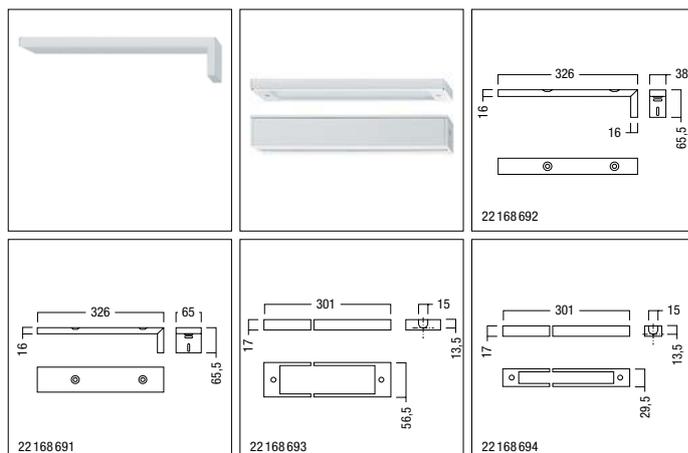
ONLITE PURESIGN 150 AD installation accessories

Order no.

- 90° bracket made of sheet steel, powder-coated silver, similar to RAL 7035
- Cable duct concealed in mounting bracket
- Extension frame for side cable feed

Accessory

PURESIGN/COMSIGN 150 AW 90° NDA/NSI/NPS Wall bracket for surface-mounting	22 168 692
PURESIGN/COMSIGN 150 AW 90° NTx Wall bracket for surface-mounting	22 168 691
PURESIGN/COMSIGN 150 FRAME NDA/NSI/NPS Surround	22 168 694
PURESIGN/COMSIGN 150 FRAME NTx Surround	22 168 693



[...] Shared properties ONLITE PURESIGN 150 AD/ED

- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NT1 (4.5 W), NT3 (4.5 W), NT3 (4.5 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

ONLITE PURESIGN 150 AD ceiling surface-mount



- [...]
- Two-piece surface-mount housing made of die cast aluminium to fit COMSIGN 150 and PURESIGN 150
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and escape sign

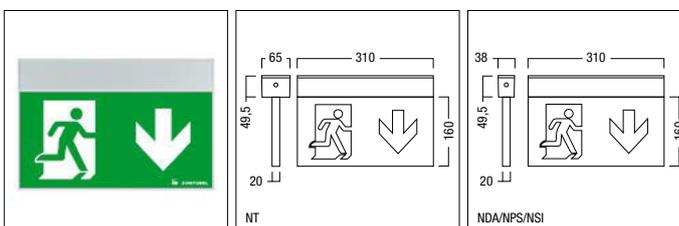
Self contained with monitoring

	<i>electronic</i>
PURESIGN/COMSIGN 150 AD NT1 1 h	42 180 886
PURESIGN/COMSIGN 150 AD NT3 3 h	42 180 887

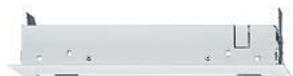
Centrally supplied

PURESIGN/COMSIGN 150 AD NDA	42 180 884
PURESIGN/COMSIGN 150 AD NPS electronic	42 180 885
PURESIGN/COMSIGN 150 AD NSI	42 180 883

Please order escape signs separately (including LED and aluminium frame).



ONLITE PURESIGN 150 ED ceiling-recessed



- [...]
- Sheet-steel recessed housing in silver powder-coated finish, similar to RAL 7035
- Ultra-simple to fit using level-adjustment kit (included) designed for COMSIGN 150 and PURESIGN 150
- Extruded aluminium cover in powder-coated silver-look finish

Self contained with monitoring

	<i>electronic</i>
PURESIGN/COMSIGN 150 ED NT1 1 h	42 180 889
PURESIGN/COMSIGN 150 ED NT3 3 h	42 180 890

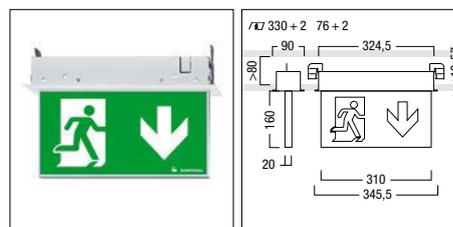
Centrally supplied

PURESIGN/COMSIGN 150 ED NDA	42 180 949
PURESIGN/COMSIGN 150 ED NPS electronic	42 180 893
PURESIGN/COMSIGN 150 ED NSI	42 180 892

Accessory

PURESIGN/COMSIGN 150 ED GEH BETON Concrete casting surround	22 168 778
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Please order escape signs separately (including LED and aluminium frame).



ONLITE PURESIGN 150 TEC TECTON continuous-row lighting system



Order no.

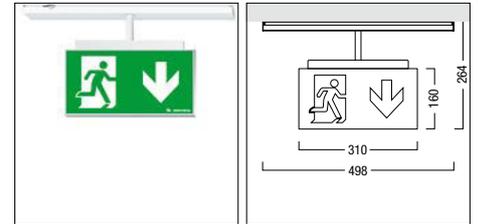
- TECTON pendant suspension
- Adapter for COMSIGN 150 and PURESIGN 150 fitted without tools
- Phase/neutral conductor for the emergency circuit can be chosen to suit
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

Centrally supplied

PURESIGN 150 TEC-GP NDA	42 183 157
PURESIGN 150 TEC-GP NPS	42 183 158

Self contained with monitoring; white

PURESIGN 150 TEC-GP NSI	42 183 156
PURESIGN 150 TEC-GP NT1 1h	42 183 154
PURESIGN 150 TEC-GP NT3 3h	42 183 155



ONLITE PURESIGN 150 AD/ED/TEC escape sign RZ



Order no.

- Extruded aluminium designer surround in powder-coated, silver-look finish
- Plastic diffuser made of PC with digitally printed escape route symbol
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Fits easily onto base unit
- Escape sign 2Rx-LR, left or right direction by rotating luminaire

Escape sign

PURESIGN 150 AD/ED/TEC RZ-1L 1x left arrow, 1x white unprinted	22 168 639
PURESIGN 150 AD/ED/TEC RZ-1LO 1x pointing left up, 1x white unprinted	22 900 432
PURESIGN 150 AD/ED/TEC RZ-1LU 1x pointing left down, 1x white unprinted	22 900 433
PURESIGN 150 AD/ED/TEC RZ-1O 1x pointing up, 1x white unprinted	22 900 428
PURESIGN 150 AD/ED/TEC RZ-1R 1x right arrow, 1x white unprinted	22 168 641
PURESIGN 150 AD/ED/TEC RZ-1RO 1x pointing right up, 1x white unprinted	22 900 430
PURESIGN 150 AD/ED/TEC RZ-1RU 1x pointing right down, 1x white unprinted	22 900 431
PURESIGN 150 AD/ED/TEC RZ-1U 1x down arrow, 1x white unprinted	22 168 642
PURESIGN 150 AD/ED/TEC RZ-2LR 2x right/left arrows	22 168 643
PURESIGN 150 AD/ED/TEC RZ-2LRO 1x pointing left up, 1x pointing right up	22 900 434
PURESIGN 150 AD/ED/TEC RZ-2LRU 1x pointing left down, 1x pointing right down	22 900 435
PURESIGN 150 AD/ED/TEC RZ-2O 2x pointing up	22 900 429
PURESIGN 150 AD/ED/TEC RZ-2U 2x down arrows	22 168 644



[...] Shared properties ONLITE PURESIGN 150 ASI/ESI/RSI

- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

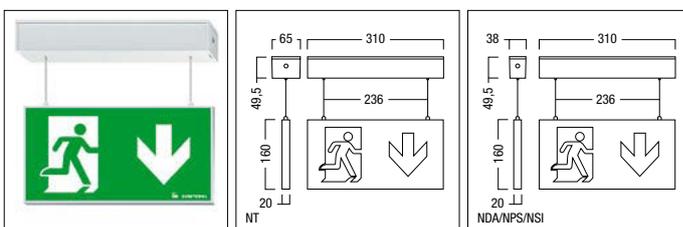
ONLITE PURESIGN 150 ASI surface-mount, cord



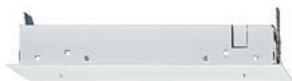
- [...]
- Two-piece surface-mount housing made of die-cast aluminium designed to fit pictograms with cord suspension from COMSIGN 150 and PURESIGN 150 range
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and escape sign
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out

Self contained with monitoring	Order no.	electronic
PURESIGN/COMSIGN 150 ASI NT1 1 h	42 180 902	
PURESIGN/COMSIGN 150 ASI NT3 3 h	42 180 903	
Centrally supplied		
PURESIGN/COMSIGN 150 ASI NDA	42 180 900	
PURESIGN/COMSIGN 150 ASI NPS electronic	42 180 901	
PURESIGN/COMSIGN 150 ASI NSI	42 180 899	

Please order escape signs separately (including LED and aluminium frame).



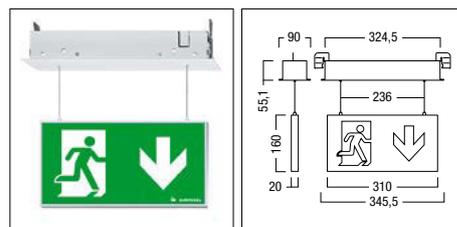
ONLITE PURESIGN 150 ESI recessed, cord



- [...]
- Sheet-steel recessed housing in silver powder-coated finish, similar to RAL 7035
- Ultra-easy to fit using level-adjustment kit (included) designed for pictograms with cord suspension from COMSIGN 150 and PURESIGN 150
- Extruded aluminium cover in powder-coated silver-look finish
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out

Self contained with monitoring	Order no.	electronic
PURESIGN/COMSIGN 150 ESI NT1 1 h	42 180 905	
PURESIGN/COMSIGN 150 ESI NT3 3 h	42 180 906	
Centrally supplied		
PURESIGN/COMSIGN 150 ESI NDA	42 180 909	
PURESIGN/COMSIGN 150 ESI NPS electronic	42 180 910	
PURESIGN/COMSIGN 150 ESI NSI	42 180 908	

Please order escape signs separately (including LED and aluminium frame).



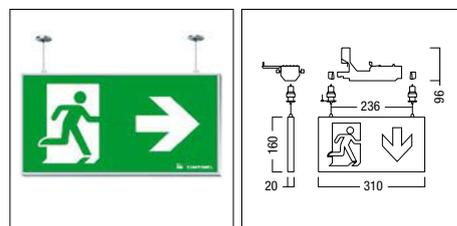
ONLITE PURESIGN 150 RSI remote, cord



- [...]
- Polycarbonate gearbox for installation in ceiling recess in modular ceilings
- Connecting lead between escape sign and gearbox fitted with strain relief at both ends suitable for COMSIGN 150 and PURESIGN 150 pictograms with cord suspension
- Level can be adjusted without tools using ceiling attachments
- Plug-in terminals for loop-in/loop-out conductor up to 2.5 mm²

Self contained with monitoring	Order no.	electronic
PURESIGN/COMSIGN 150 RSI NT1 1 h	42 180 911	
PURESIGN/COMSIGN 150 RSI NT3 3 h	42 180 912	
Centrally supplied		
PURESIGN/COMSIGN 150 RSI NDA	42 180 915	
PURESIGN/COMSIGN 150 RSI NPS electronic	42 180 916	
PURESIGN/COMSIGN 150 RSI NSI	42 180 914	

Please order escape signs separately (including LED and aluminium frame).



ONLITE PURESIGN 150 ASI/ESI/RSI escape sign RZ

Order no.



- Extruded aluminium designer surround in powder-coated, silver-look finish
- Plastic diffuser made of PC with digitally printed escape route symbol
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Fitted to base unit without tools via insulated steel cord
- Escape sign 2Rx-LR, left or right direction by rotating luminaire

Escape sign

PURESIGN 150 ASI/ESI/RSI 1500 RZ-1L 1x left arrow, 1x white unprinted	22 168 659
PURESIGN 150 ASI/ESI/RSI 1500 RZ-1LO 1x pointing left up, 1x white unprinted	22 900 440
PURESIGN 150 ASI/ESI/RSI 1500 RZ-1LU 1x pointing left down, 1x white unprinted	22 900 441
PURESIGN 150 ASI/ESI/RSI 1500 RZ-1O 1x pointing up, 1x white unprinted	22 900 436
PURESIGN 150 ASI/ESI/RSI 1500 RZ-1R 1x right arrow, 1x white unprinted	22 168 660
PURESIGN 150 ASI/ESI/RSI 1500 RZ-1RO 1x pointing right up, 1x white unprinted	22 900 438
PURESIGN 150 ASI/ESI/RSI 1500 RZ-1RU 1x pointing right down, 1x white unprinted	22 900 439
PURESIGN 150 ASI/ESI/RSI 1500 RZ-1U 1x down arrow, 1x white unprinted	22 168 661
PURESIGN 150 ASI/ESI/RSI 1500 RZ-2LR 2x right/left arrows	22 168 662
PURESIGN 150 ASI/ESI/RSI 1500 RZ-2LRO 1x pointing left up, 1x pointing right up	22 900 442
PURESIGN 150 ASI/ESI/RSI 1500 RZ-2LRU 1x pointing left down, 1x pointing right down	22 900 443
PURESIGN 150 ASI/ESI/RSI 1500 RZ-2O 2x pointing up	22 900 437
PURESIGN 150 ASI/ESI/RSI 1500 RZ-2U 2x down arrows	22 168 663

DIN 4844 500 cd/m ²	30m EN 1838	850 °C	incl. LED
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[...] Shared properties ONLITE CROSSIGN 110 AB

- White polycarbonate surface-mount housing
- Cable feed possible from all sides
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- Frameless pictogram can be fitted
- without tools
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires
- set mechanically or optically (excluding NPS version)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

ONLITE CROSSIGN 110 AB ERI surface-mount



- [...]
- ERI (Escape Route Illumination) using two rotatable LED spots as versatile emergency lighting
- Installed load: NT1 (4.5 W), NT3 (5.2 W)

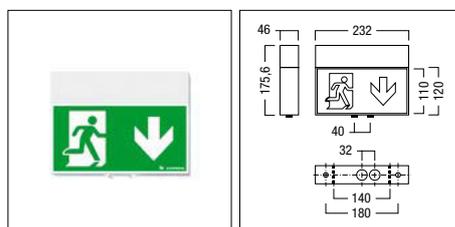
Self contained with monitoring

	<i>electronic</i>
CROSSIGN 110 AB LED NT1 ERI 1 h	42 180 803
CROSSIGN 110 AB LED NT3 ERI 3 h	42 180 804

Centrally supplied

CROSSIGN 110 AB LED NDA ERI	42 180 806
CROSSIGN 110 AB LED NSI ERI	42 180 805

Please order escape signs separately.



ONLITE CROSSIGN 110 AB surface-mount



- [...]
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)

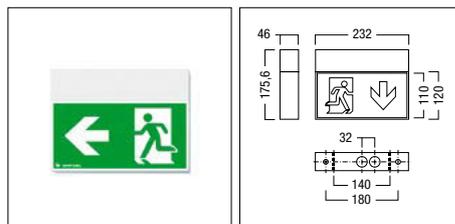
Self contained with monitoring

	<i>electronic</i>
CROSSIGN 110 AB LED NT1 1 h	42 180 798
CROSSIGN 110 AB LED NT3 3 h	42 180 799

Centrally supplied

CROSSIGN 110 AB LED NDA	42 180 801
CROSSIGN 110 AB LED NPS electronic	42 180 802
CROSSIGN 110 AB LED NSI	42 180 800

Please order escape signs separately.



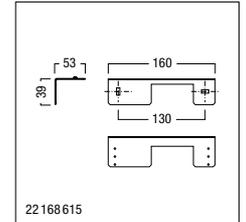
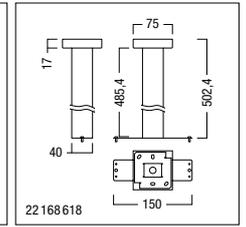
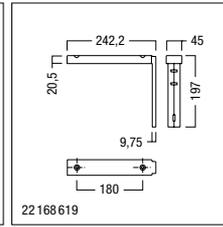
ONLITE CROSSIGN 110 AB installation accessories

Order no.

- 90° bracket made of sheet steel, powder-coated white, RAL 9016
- Cable duct concealed in mounting bracket

Accessory

CROSSIGN 110 AW 90° Wall bracket for surface-mounting	22 168 619
CROSSIGN 110+160 API 500 Pendant suspension	22 168 618
CROSSIGN 110+160 ASI 2000 Cord suspension	22 168 617
CROSSIGN 110+160 AW 180° Wall bracket for parallel surface-mounting	22 168 615



[...] Shared properties ONLITE CROSSIGN 110 TEC

- TECTON pendant suspension
- Adapter fitted without tools
- Phase/neutral conductor for the emergency circuit can be chosen to suit
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Housing made of white polycarbonate
- Frameless pictogram can be fitted without tools
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- Power consumption: NSI (5 W), NDA (4.5 W), NPS (4.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

ONLITE CROSSIGN 110 TEC ERI TECTON continuous-row lighting system

Order no.



- [...]
- ERI (Escape Route Illumination) using two rotatable LED spots as versatile emergency lighting
- Installed load: NT1 (4.5 W), NT3 (5.2 W)

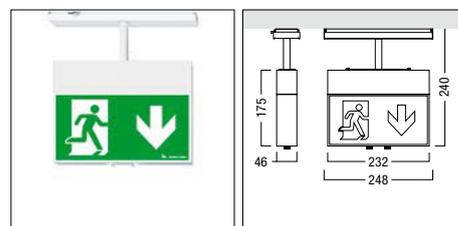
Self contained with monitoring

CROSSIGN 110 TEC-GP NT1 ERI 1h	42 183 148
CROSSIGN 110 TEC-GP NT3 ERI 3h	42 183 149

Centrally supplied

CROSSIGN 110 TEC-GP NDA ERI	42 183 151
CROSSIGN 110 TEC-GP NSI ERI	42 183 150

Please order escape signs separately.



ONLITE CROSSIGN 110 TEC TECTON continuous-row lighting system

Order no.



- [...]
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)

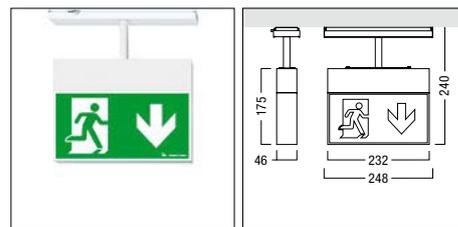
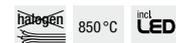
Self contained with monitoring

CROSSIGN 110 TEC-GP NT1 1h	42 183 143
CROSSIGN 110 TEC-GP NT3 3h	42 183 144

Centrally supplied

CROSSIGN 110 TEC-GP NDA	42 183 146
CROSSIGN 110 TEC-GP NPS	42 183 147
CROSSIGN 110 TEC-GP NSI	42 183 145

Please order escape signs separately.



ONLITE CROSSIGN 110 AB/TEC escape sign RZ

Order no.



- Opal polycarbonate diffuser with digitally printed escape route symbol
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Tool-free installation on base unit
- Escape sign Rx-2S, left or right direction by rotating luminaire

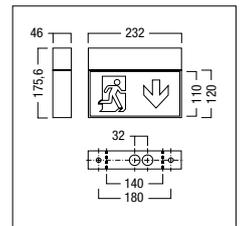
Escape sign

CROSSIGN 110 2RZ-1L 1x left arrow, 1x white unprinted	22 168 605
CROSSIGN 110 2RZ-1R 1x right arrow, 1x white unprinted	22 168 606
CROSSIGN 110 2RZ-1U 1x down arrow, 1x white unprinted	22 168 604
CROSSIGN 110 2RZ-2U 2x down arrows	22 168 607
CROSSIGN 110 2RZ-LR 2x right/left arrows	22 168 608
CROSSIGN 110 RZ-1LO 1x pointing left up, 1x white unprinted	22 900 357
CROSSIGN 110 RZ-1LU 1x pointing left down, 1x white unprinted	22 900 358
CROSSIGN 110 RZ-1O 1x pointing up, 1x white unprinted	22 900 362
CROSSIGN 110 RZ-1RO 1x pointing right up, 1x white unprinted	22 900 355
CROSSIGN 110 RZ-1RU 1x pointing right down, 1x white unprinted	22 900 356
CROSSIGN 110 RZ-2LRO 1x pointing left up, 1x pointing right up	22 900 359
CROSSIGN 110 RZ-2LRU 1x pointing left down, 1x pointing right down	22 900 360
CROSSIGN 110 RZ-2O 2x pointing up	22 900 361

DIN 4844
500 cd/m²

22m
EN 1838

850 °C



[...] Shared properties ONLITE CROSSIGN 160 AB

- White polycarbonate surface-mount housing
- Basic version can be mounted on ceiling without use of tools
- Cable feed possible from all sides
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- Frameless pictogram can be fitted without tools
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)

ONLITE CROSSIGN 160 AB ERI surface-mount



- [...]
- ERI (Escape Route Illumination) using two rotatable LED spots as versatile emergency lighting
- Installed load: NT1 (5.8 W), NT3 (6.5 W)
- Power consumption: NSI (6 W), NDA (6 W)

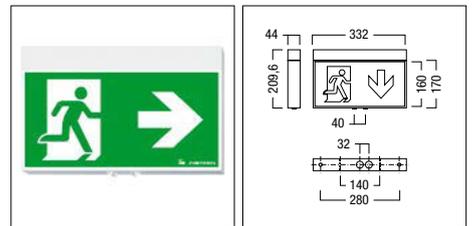
Centrally supplied

CROSSIGN 160 AB LED NDA ERI	42 180 796
CROSSIGN 160 AB LED NDA ERI	42 181 391
CROSSIGN 160 AB LED NSI ERI	42 180 795
CROSSIGN 160 AB LED NSI ERI	42 181 390

Self contained with monitoring

CROSSIGN 160 AB LED NT1 ERI 1 h electronic	42 180 793
CROSSIGN 160 AB LED NT1 ERI 1 h electronic	42 181 388
CROSSIGN 160 AB LED NT3 ERI 3 h electronic	42 180 794
CROSSIGN 160 AB LED NT3 ERI 3 h electronic	42 181 389

Please order escape signs separately.



Order no.

ONLITE CROSSIGN 160 AB surface-mount



- [...]
- Installed load: NT1 (5.8 W), NT3 (5.8 W)
- Power consumption: NSI (6 W), NDA (5.5 W), NPS (5.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

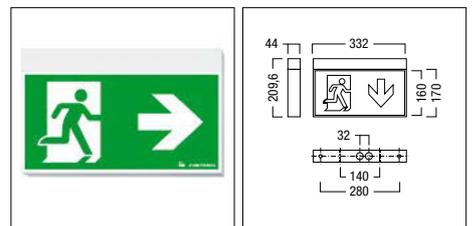
Centrally supplied

CROSSIGN 160 AB LED NDA	42 181 386	<i>electronic</i>
CROSSIGN 160 AB LED NPS	42 181 387	42 180 772
CROSSIGN 160 AB LED NSI	42 181 385	

Self contained with monitoring

CROSSIGN 160 AB LED NT1 1 h electronic	42 180 768	<i>electronic</i>
CROSSIGN 160 AB LED NT1 1 h electronic	42 181 383	
CROSSIGN 160 AB LED NT3 3 h electronic	42 180 769	
CROSSIGN 160 AB LED NT3 3 h electronic	42 181 384	

Please order escape signs (including LED and aluminium cover).



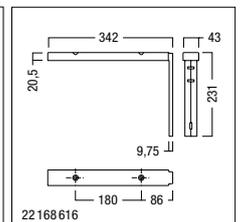
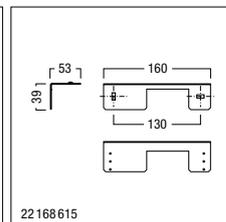
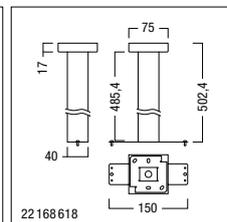
Order no. Order no.

ONLITE CROSSIGN 160 AB installation accessories

- 90° bracket made of sheet steel, powder-coated white, RAL 9016
- Cable duct concealed in mounting bracket

Accessory

CROSSIGN 110+160 API 500 Pendant suspension	22 168 618
CROSSIGN 110+160 ASI 2000 Cord suspension	22 168 617
CROSSIGN 110+160 AW 180° Wall bracket for parallel surface-mounting	22 168 615
CROSSIGN 160 AW 90° Wall bracket for surface-mounting	22 168 616



Order no.



[...] Shared properties ONLITE CROSSIGN 160 TEC

- TECTON pendant suspension
- Adapter fitted without tools
- Phase/neutral conductor for the emergency circuit can be chosen to suit
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Housing made of white polycarbonate
- Frameless pictogram can be fitted without tools
- LED control gear with "Maintenance Function" guarantees a constant luminous flux over the entire operating life of the LED luminaire (excludes NPS version)
- Address for individual luminaires set mechanically or optically (excluding NPS version)

ONLITE CROSSIGN 160 TEC ERI TECTON continuous-row lighting system



- [...]
- ERI (Escape Route Illumination) using two rotatable LED spots as versatile emergency lighting
- Installed load: NT1 (5.8 W), NT3 (6.5 W)
- Power consumption: NSI (6 W), NDA (6 W)

Self contained with monitoring

CROSSIGN 160 TEC-GP NT1 ERI 1h	42 183 139
CROSSIGN 160 TEC-GP NT3 ERI 3h	42 183 140

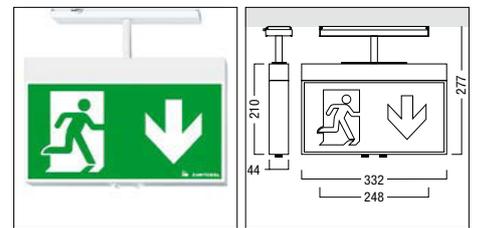
Centrally supplied

CROSSIGN 160 TEC-GP NDA ERI	42 183 142
CROSSIGN 160 TEC-GP NSI ERI	42 183 141

Please order escape signs separately.

Order no.

IP54 IP42  850°C 



ONLITE CROSSIGN 160 TEC TECTON continuous-row lighting system



- [...]
- Installed load: NT1 (5.8 W), NT3 (5.8 W)
- Power consumption: NSI (6 W), NDA (5.5 W), NPS (5.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

Self contained with monitoring

CROSSIGN 160 TEC-GP NT1 1h	42 183 134
CROSSIGN 160 TEC-GP NT3 3h	42 183 135

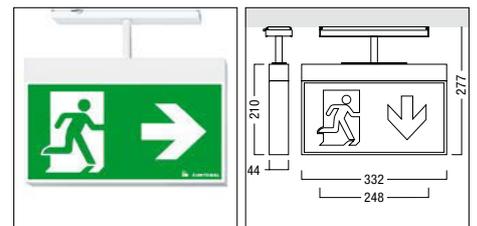
Centrally supplied

CROSSIGN 160 TEC-GP NDA	42 183 137
CROSSIGN 160 TEC-GP NPS	42 183 138
CROSSIGN 160 TEC-GP NSI	42 183 136

Please order escape signs separately.

Order no.

IP54 IP42  850°C 



ONLITE CROSSIGN 160 AB/TEC escape sign RZ

Order no.

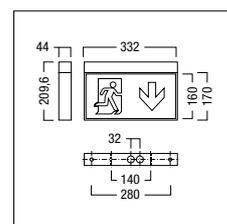


- Opal polycarbonate diffuser with digitally printed escape route symbol
- Escape sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Tool-free installation on base unit
- Escape sign Rx-2S, left or right direction by rotating luminaire

Escape sign

CROSSIGN 160 2RZ-1L 1x left arrow, 1x white unprinted	22 168 595
CROSSIGN 160 2RZ-1R 1x right arrow, 1x white unprinted	22 168 596
CROSSIGN 160 2RZ-1U 1x down arrow, 1x white unprinted	22 168 614
CROSSIGN 160 2RZ-2U 2x down arrows	22 168 597
CROSSIGN 160 2RZ-LR 2x right/left arrows	22 168 598
CROSSIGN 160 RZ-1LO 1x pointing left up, 1x white unprinted	22 900 367
CROSSIGN 160 RZ-1LU 1x pointing left down, 1x white unprinted	22 900 368
CROSSIGN 160 RZ-1O 1x pointing up, 1x white unprinted	22 900 363
CROSSIGN 160 RZ-1RO 1x pointing right up, 1x white unprinted	22 900 365
CROSSIGN 160 RZ-1RU 1x pointing right down, 1x white unprinted	22 900 366
CROSSIGN 160 RZ-2LRO 1x pointing left up, 1x pointing right up	22 900 369
CROSSIGN 160 RZ-2LRU 1x pointing left down, 1x pointing right down	22 900 370
CROSSIGN 160 RZ-2O 2x pointing up	22 900 364

DIN 4844
500 cd/m² **32m** 850 °C
EN1838

**ONLITE ECOSIGN AB surface mount**

Order no.



- Housing made of white polycarbonate with metal clips along the sides
- Cable input from any side, with versatile cable guide in base of housing
- Plug-in terminals for through-wiring, max. 2.5 mm²
- Plenty of space for cables in wiring box
- LED control gear with "maintenance function" for constant luminance over the entire lifetime of the luminaire
- Installed load: NT1 (6.21 W), NT3 (6.78 W)
- Power consumption: NSI (5.7 W), NDA (5.7 W)
- Frameless pictogram can be fitted without tools
- NiMh batteries in the self-contained models (NT1 and NT3) can be replaced easily

Self contained with monitoring

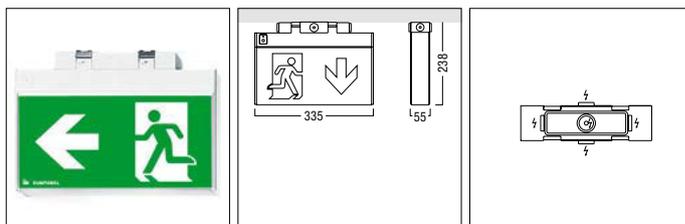
ECOSIGN C AB LED NT1 1 h	42 180 503
ECOSIGN C AB LED NT3 3 h	42 180 504

Centrally supplied

ECOSIGN C AB LED NDA	42 180 506
ECOSIGN C AB LED NPS electronic	42 182 480
ECOSIGN C AB LED NSI	42 180 505

Please order escape signs separately

IP65 850 °C LED



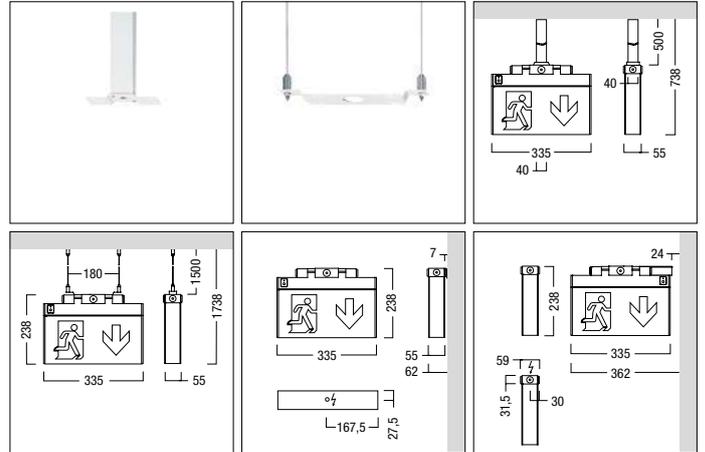
ONLITE ECOSIGN AB installation accessories

Order no.

- Installation accessories can be combined with basic version as required
- No additional accessories are required for ceiling-mounting

Accessory

ECOSIGN C API500 Pendant suspension	22 168 744
ECOSIGN C ASI1500 Cord suspension	22 168 745
ECOSIGN C AW 90° Wall bracket for surface-mounting	22 168 747
ECOSIGN C AW Wall bracket for parallel surface-mounting	22 168 746
ECOSIGN C BWS Ballproof grill	22 168 748
ECOSIGN C ED GEH BETON Concrete casting surround galvanised	22 066 751



ONLITE ECOSIGN AB/TECTON escape sign RZ

Order no.



- Polycarbonate opal cover with additional downwards light outlet, internal longitudinal prisms providing support illumination of escape route
- Escape sign printed digitally
- Tool-free installation on base unit
- RZ-2S escape sign; left or right direction by rotating the luminaire
- Optimized for use with the LED luminaire

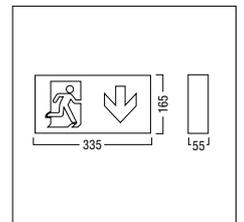
Single-sided escape sign

ECOSIGN C RZ-1L 1x left arrow, 1x white unprinted	22 166 881
ECOSIGN C RZ-10 1x pointing up, 1x white unprinted	22 900 371
ECOSIGN C RZ-1R 1x right arrow, 1x white unprinted	22 166 880
ECOSIGN C RZ-1U 1x down arrow, 1x white unprinted	22 166 876

Two-sided escape sign

ECOSIGN C RZ-2LR 2x right/left arrows	22 166 875
ECOSIGN C RZ-20 2x pointing up	22 900 372
ECOSIGN C RZ-2U 2x down arrows	22 166 877

DIN 4844 32m
500 cd/m² EN 1838



ONLITE ECOSIGN AB/TECTON cover, transparent

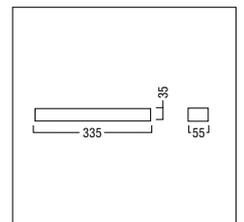
kg Order no.



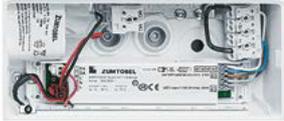
- Crystal-clear polycarbonate diffuser with longitudinal prisms and highly specular reflector for emergency and escape route lighting
- Can be fitted on basic housing without use of tools
- Reduced lumen output for emergency lighting: central power supply (Central): 10 % to 100 %, self-contained (NF1/NT1): 29 %, self-contained (NF3/NT3): 22 %

Diffuser for emergency and escape-route lighting

ECOSIGN ABD RW AB clear diffuser	0,2	22 156 875
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ONLITE ERGOSIGN AW wall surface-mount



- Die-cast aluminium housing in white powder-coated finish
- Cable input from any side, with versatile cable guide in base of housing
- Plug-in terminals for through-wiring, max. 2.5 mm²
- Plenty of space for the cable in the luminaire housing
- LED control gear with “maintenance function” for constant luminance over the entire lifetime of the luminaire
- Power consumption: NT1 (2.88 W), NT3 (2.88 W)
- Power consumption: NSI (2.35 W), NDA (2.35 W)
- Frameless pictogram can be fitted without tools
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools

Self contained with monitoring

ERGOSIGN C AW LED NT1 1 h	42 180 515
ERGOSIGN C AW LED NT3 3 h	42 180 516

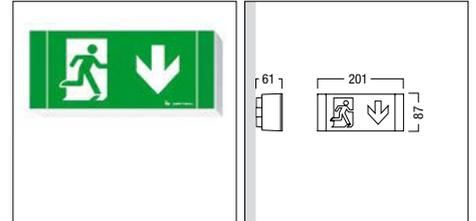
Centrally supplied

ERGOSIGN C AW LED NDA	42 180 518
ERGOSIGN C AW LED NPS electronic	42 180 519
ERGOSIGN C AW LED NSI	42 180 517

Please order escape signs separately

Order no.

electronic



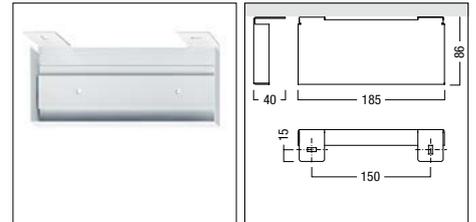
ONLITE ERGOSIGN AD installation accessories

- Cable duct concealed in mounting bracket
- Bracket for fitting ERGOSIGN to the ceiling

Accessory

ERGOSIGN C AD 90° Ceiling bracket for surface-mounting	22 168 749
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Order no.



ONLITE ERGOSIGN AW escape sign RZ

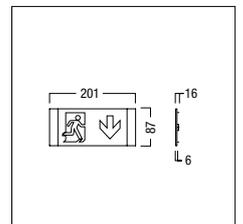


- Opal PC diffuser with integral light waveguide and reflector
- Printed pictogram
- Transparent TPE seal around entire edge

Escape sign

ERGOSIGN C RZ-1L pointing left	22 166 888
ERGOSIGN C RZ-1O pointing up	22 900 350
ERGOSIGN C RZ-1R pointing right	22 166 889
ERGOSIGN C RZ-1U pointing down	22 166 887

DIN 4844 16 m^l
500 cd/m² EN 1838



ONLITE CUBESIGN 210 AB ceiling surface-mount



- Housing made of galvanised sheet steel
- Power consumption: NT1 (8.2 W), NT3 (11.52 W)
- Installed load: NSI (11.06 W), NDA (10.6 W)
- Length of cord suspension continuously adjustable up to 5 m
- Installed on ceiling as surface-mount luminaire or using cord suspension (not included with luminaire)
- Luminaire pre-wired using halogen-free leads

Self contained with monitoring

	kg	Order no.
CUBESIGN 210 C AB LED NT1 1 h IP40		42 181 052
CUBESIGN 210 C AB LED NT3 3 h IP40		42 181 053

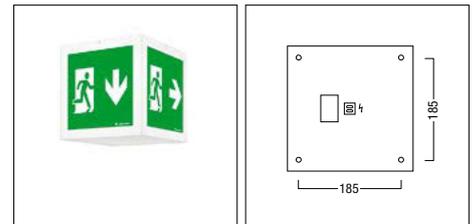
Centrally supplied

CUBESIGN 210 C AB LED NDA IP40		42 181 055
CUBESIGN 210 C AB LED NPS electronic IP40		42 181 056
CUBESIGN 210 C AB LED NSI IP40		42 181 054

Cord suspension

CUBESIGN 210 C+450 ASI 5000 Cord suspension		22 168 756
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Please order escape sign separately.



ONLITE CUBESIGN 210 AB escape sign

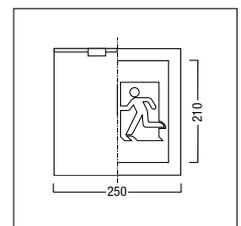


- Luminaire cube made of opal plastic
- Escape sign screen-printed onto plastic panel
- Project-specific pictograms available on request

Escape sign

CUBESIGN 210 C RZ Cube		22 168 758
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DIN 4844 200 cd/m² 42 m EN 1838



ONLITE CUBESIGN 450 AB surface-mounted RZ



- Cube-shaped luminaire made of opal plastic with metal base
- Power consumption: NT1 (26.5 W), NT3 (26.5 W)
- Power consumption: NSI (26.5 W), NDA (26.5 W)
- Escape sign screen-printed onto plastic panel
- Length of cord suspension continuously adjustable up to 5 m
- Project-specific pictograms available on request
- Installed on ceiling as surface-mount luminaire or using cord suspension (not included with luminaire)
- Luminaire pre-wired using halogen-free leads

Self contained with monitoring

	kg	Order no.
CUBESIGN 450 AB NT1 1/26W DS/BS MCUBE IP40	7,8	42 174 176
CUBESIGN 450 AB NT3 1/26W DS/BS MCUBE IP40	8,2	42 174 177

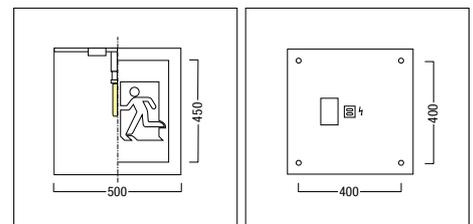
Centrally supplied

CUBESIGN 450 AB NDA 1/26W TC-DEL MCUBE eco ⁺ IP40	7,5	42 176 685
CUBESIGN 450 AB NSI 1/26W MCUBE eco ⁺ IP40	7,5	42 174 178

Accessory

CUBESIGN 210 C+450 ASI 5000 Cord suspension	0,3	22 168 756
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Please order cord suspension separately.



ONLITE SQUARESIGN 300 AW wall surface-mount



- Housing made of white powder-coated plastic (RAL 9016)
- High-quality all-round foamed waterproof polyurethane gasket for increased IP54 requirements
- Extremely homogeneous illumination of pictogram due to PCB with 32 LEDs and diffuser plate
- LED control gear with "maintenance function" for constant luminance over the entire lifetime of the luminaire
- Power consumption: NT1 (6 W), NT3 (6 W), NDA (5,5 W), NSI (7 W)
- In the self-contained models (NT1 and NT3), the NiMH battery can be replaced without tools
- Plug-in terminals for through-wiring, max. 2.5 mm²
- Installed using slotted washers supplied

Self contained with monitoring

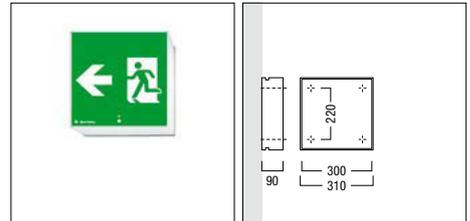
SQUARESIGN 300+ C AW LED NT1 1h	42 183 256
SQUARESIGN 300+ C AW LED NT3 3h	42 183 258

Centrally supplied

SQUARESIGN 300+ C AW LED NDA	42 183 255
SQUARESIGN 300+ C AW LED NSI	42 183 257

Please order cover with escape sign separately

IP54 incl. LED



ONLITE SQUARESIGN 300 AW escape sign RZ



- Cover made of opal injection-moulded polycarbonate
- Spring-clip mechanism provided for tool-free installation
- Escape sign printed digitally
- Uniform background lighting of pictograms with a luminance of over 500 cd/m²

Single-sided escape sign

SQUARESIGN 300 C RZ-1L left arrow	22 168 754
SQUARESIGN 300 C RZ-10 pointing up	22 900 400
SQUARESIGN 300 C RZ-1R right arrow	22 168 753
SQUARESIGN 300 C RZ-1U down arrow	22 168 755

DIN 4844 500 cd/m² 60m incl. EN1838 850 °C

ONLITE SQUARESIGN 600 AW wall surface-mount



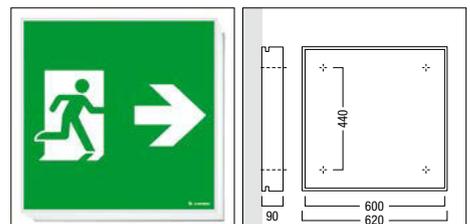
- Surface-mount luminaire 4 x 14 W T16
- Power consumption: NSI (66.5 W), NDA (66.5 W)
- Plug-in terminals for through-wiring, max. 2.5 mm²
- Housing made of white powder-coated sheet steel
- High-quality all-round foamed waterproof polyurethane gasket for increased IP54 requirements
- Four-point fixing using slotted washers and spacer supplied
- With special cable guide for protection type IP54

Centrally supplied

SQUARESIGN 600 AW 4/14W T16 NDA	42 177 778
SQUARESIGN 600 AW 4/14W T16 NSI	42 177 779

Please order cover with escape sign separately

IP54 T16 incl. lamp



ONLITE SQUARESIGN 600 AW escape sign RZ



- Cover made of opal injection-moulded polycarbonate
- Spring-clip mechanism provided for tool-free installation
- Escape sign printed digitally
- Uniform background lighting of pictograms with a luminance of over 500 cd/m²

Accessory

SQUARESIGN 600 RZ-10 pointing up	22 900 405
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Single-sided escape sign

SQUARESIGN 600 RZ-1L left arrow	22 162 302
SQUARESIGN 600 RZ-1R right arrow	22 162 303
SQUARESIGN 600 RZ-1U down arrow	22 162 301

DIN 4844 500 cd/m² 120m incl. EN1838 850 °C

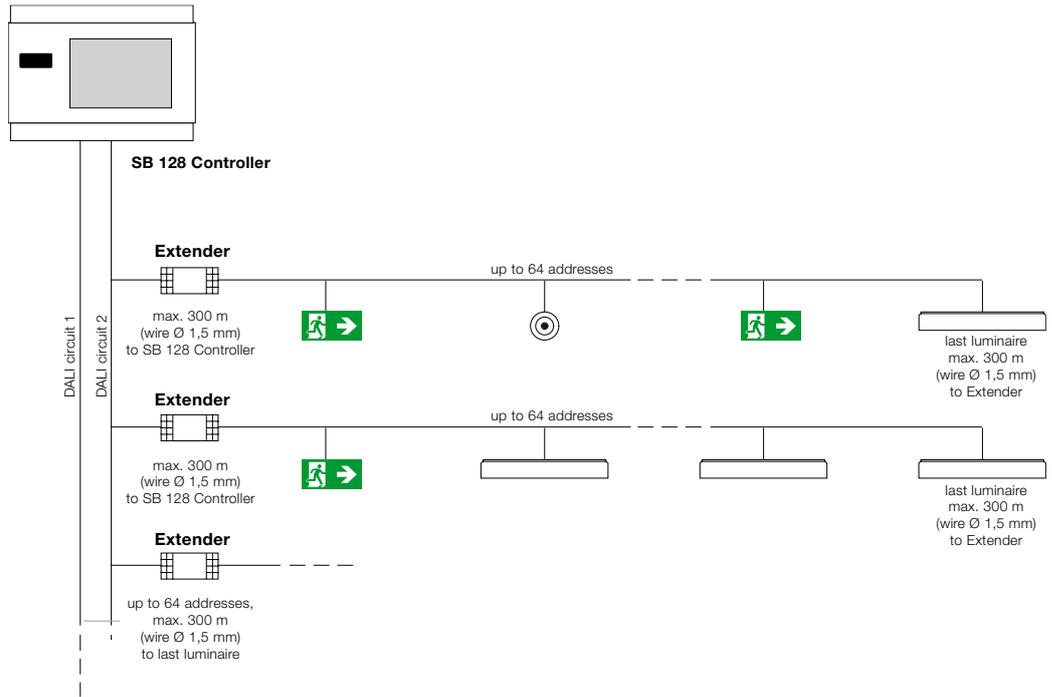


ONLITE local

The emergency lighting system with separate battery supply

Emergency lighting systems with separate battery supply have one feature in common – a battery is fitted into every luminaire. In emergency mode, this supplies the lamp with power in order to prevent panic reactions, ensure the workplace is evacuated safely and show the escape route. Economic efficiency and a high level of safety are both factors in favour of systems with separate battery supply. This system is the ideal solution for small and medium-sized buildings in particular.

Application example ONLITE LOCAL



ONLITE local SB128 CONTROLLER

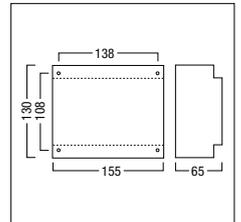
Order no.



- Central monitoring and display of 128 escape signs and emergency luminaires
- Easy control via touch screen
- Individually programmable function and annual system tests
- Three individually programmable floating signalling contacts
- Built-in power supply for DALI control line
- Mains connection: 220/240 V
- Can be extended to include up to 256 luminaires, using extenders
- All luminaires configured individually via Controller
- Test results are stored in the internal logbook for at least 3 years
- Readout of test log book via RS 232 or infrared interface
- Software available in seven languages (DE, EN, FR, NL, IT, ES, PL)

ONLITE local SB 128 Controller

22 156 829



ONLITE local EXTENDER

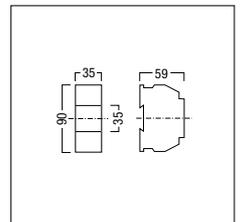
Order no.



- Extension module for DALI circuit 2 of SB 128 Controller
- 3 extender modules with a max. of 64 luminaires per extender can be connected (max. number of luminaires: 256)
- Bus supply integrated in module
- Max. cable length to extender: 300 m, from extender to luminaire: 300 m
- Switch-cabinet module

ONLITE local Extender

22 156 830



ONLITE local REPEATER

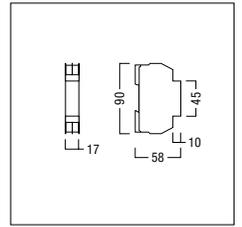
Order no.



- For metallic separation of 2 DALI power supplies in one DALI address range
- Switch-cabinet module
- Only one power supply may be active per DALI address range

ONLITE local Repeater

22 157 024



ONLITE local SWITCH MODULE

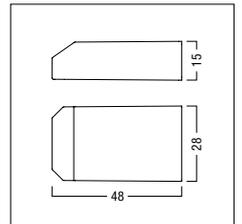
Order no.



- Switching of individual or all escape signs and emergency luminaires of the SB 128 Controller's four emergency lighting circuits from maintained to non-maintained mode
- Power supply via DALI line (2 DALI loads)
- Installed in standard flush socket
- Increases lamp service life and reduces energy consumption
- Switched via standard switches or time switches with floating contacts

ONLITE local Switch Module II

22 169 120



ONLITE local PRINTER

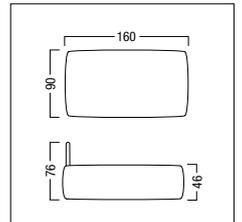
Order no.



- For printing out test logs
- Sturdy, fixed thermo-print line
- Battery pack and mains unit included in scope of supply
- Incl. 4 reels of thermopaper
- Insensitive to interferences and short interruptions of infrared connection

ONLITE IR-Printer

22 154 522





ONLITE central CPS

Project-specific customised,
networked central battery system

Every central battery system is designed project-specifically on the basis of a modular system. This produces solutions which are optimised in terms of the cost and functionality of the system. The modular design of ONLITE central CPS guarantees a tailor-made solution for any project and a significantly optimised cost/functionality ratio.



[...] Shared properties ONLITE CENTRAL eBOX MSxxxx

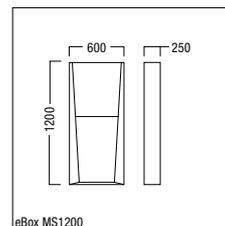
- Central supply system including monitoring of LED emergency and escape sign luminaires
- TÜV certified CPS/LPS device for use in emergency lighting installations to EN 50172
- Full support system for up to 600 LED emergency and escape sign luminaires
- Up to 100 eBox units can be networked by TCP/IP
- Web-browser based visualisation
- Colour touch display with commissioning WIZARD for first-time use
- Test log function > 3 years
- Two TCP/IP interfaces
- USB 2.0 port for data upload/download
- Sheet-steel housing wall in RAL 7035 powder-coated finish
- Large wiring compartment for easy wiring
- Cable can be connected from above or below
- Cage-clamp terminals for all line outputs
- Three optional plug-in dual circuit modules: OCM NDA DALI (2-wire communication; L/N/PE/DA/DA); OCM NSI (Powerline communication; L/N/PE); OCM NPS (no communication)
- Four optional plug-in circuit outputs to sub-distribution circuit
- Optimized, temperature-controlled battery charging
- Voltage: 230 V ±10 %, frequency: 50 Hz, output voltage: 230 V AC (mains power mode), 216 V DC (emergency mode)
- Maximum installed load 5.5 kVA

ONLITE central eBox MS1200 central supply system



- [...]
- Battery set (7 Ah / 12 Ah) not included

	kg	Order no.
ONLITE central eBox		
ONLITE central eBox MS1200	47,5	22 176 359
Optional modules		
ONLITE central eBox OCM-NDA <input type="checkbox"/>	0,4	22 168 594
ONLITE central eBox OCM-NPS <input type="checkbox"/>	0,4	22 185 295
ONLITE central eBox OCM-NSI <input type="checkbox"/>	0,4	22 185 293
ONLITE central eBox SCM <input type="checkbox"/>	0,3	22 185 297
Battery set (18 x 12 V)		
ONLITE central eBox ACCU PB/12 12Ah	70,0	22 168 851
ONLITE central eBox ACCU PB/12 7Ah	45,0	22 168 850

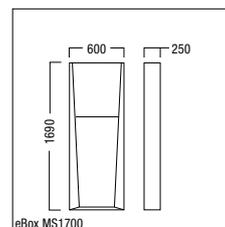


ONLITE central eBox MS1700 central supply system



- [...]
- Battery set (12 Ah / 24 Ah) not included

	kg	Order no.
ONLITE central eBox		
ONLITE central eBox MS1700	80,0	22 176 472
Optional modules		
ONLITE central eBox OCM-NDA <input type="checkbox"/>	0,4	22 168 594
ONLITE central eBox OCM-NPS <input type="checkbox"/>	0,4	22 185 295
ONLITE central eBox OCM-NSI <input type="checkbox"/>	0,4	22 185 293
ONLITE central eBox SCM <input type="checkbox"/>	0,3	22 185 297
Battery set (18 x 12 V)		
ONLITE central eBox ACCU PB/12 12Ah	70,0	22 168 851
ONLITE central eBox ACCU PB/12 24Ah	161,0	22 168 852



ONLITE central eBox OCM output circuit module

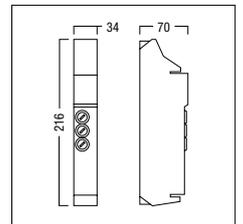
- Output circuit module for ONLITE central eBox
- TÜV certified module for use in emergency lighting installations to EN 50172
- Per output circuit for 20 emergency or escape sign luminaires
- Output voltage 230 V AC (mains operation), 216 V DC (emergency operation)
- Max. output current 1.89 A (fuse rating 3.15 AT); max. 420 VA / 200 W
- Cage-clamp terminals for all line outputs
- Current monitoring can be activated using “learn function”
- Additional functions for OCM NSI and OCM NDA:
- Mixed operation of maintained and non-maintained mode; switched continuous lighting per luminaire
- SET DC function, adjustable DC power of loads
- DALI In input with memory function for integrating lighting management
- OCM NSI – Powerline communication (L/N/PS) OCM NDA – 5-line technology (L/N/PE/DA/DA)

	kg	Order no.
ONLITE central eBox OCM-NDA	0,4	22 168 594
ONLITE central eBox OCM-NPS	0,4	22 185 295
ONLITE central eBox OCM-NSI	0,4	22 185 293

**ONLITE central eBox SCM switch connection module**

- Switchover and fuse module for ONLITE central eBox sub-station
- TÜV certified module for use in emergency lighting installations to EN 50172
- One sub-distribution station per SCM
- Output voltage: AC operation (L, N, PE terminals): 230 V \pm 10 %, 50 Hz DC operation (B+, B- terminals): 216 V DC
- Output current 4.8 A (fuse rating 8 AT) max. 1000 VA / 750 W
- Cage-clamp terminals for all line outputs
- Cable cross-section 0.5–4 mm² solid wire / stranded

	kg	Order no.
ONLITE central eBox SCM	0,3	22 185 297



ONLITE central eBox BATTERY SET

Order no.



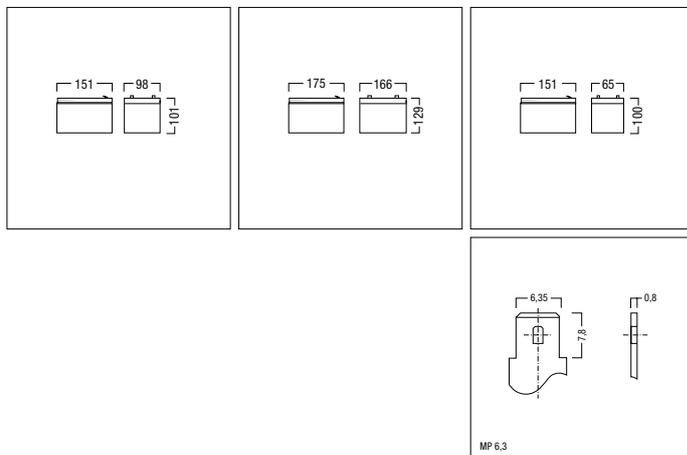
- OGIv high-rate pasted plates (lead/calcium)
- Rated EUROBAT high performance class
- 10-year useful service life @ 20 °C ambient temperature
- ABS case and lid
- Poles with MP 6.3 flat spade terminal
- Extremely low gas emission
- Low self-discharge
- No transportation restrictions
- 100 % recyclable
- No maintenance required over entire useful service life
- Rated voltage 18 x 12 V / 216 V DC
- DIN EN 60896 compliant
- Ventilation to EN 50272-2

Accessory

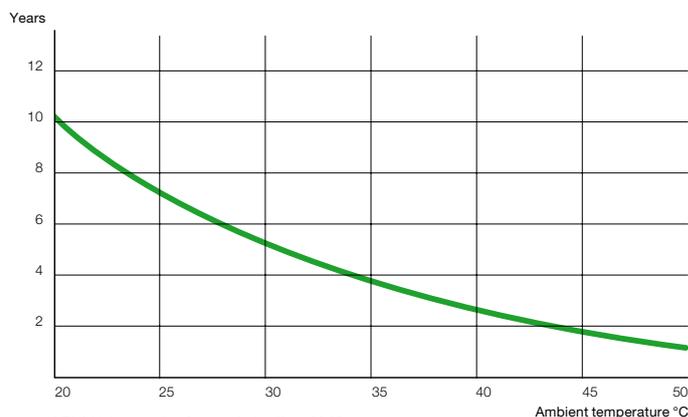
ONLITE central eBox TS35 SET	22 169 170
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Battery set (18 x 12 V)

ONLITE central eBox ACCU PB/12 12Ah	22 168 851
ONLITE central eBox ACCU PB/12 24Ah	22 168 852
ONLITE central eBox ACCU PB/12 7Ah	22 168 850



Battery Lifetime*



* VRLA high rate cells 10 years design life at 20 °C

ONLITE central eBox SUB sub-distribution board



- Sub-distribution station for central supply system including monitoring of LED emergency and escape sign luminaires
- Sheet-steel IP20 wall-mounted housing in RAL 7035 powder-coated finish
- Large wiring compartment for easy cable connection
- Cable can be connected from above or below
- Cage-clamp terminals for all line outputs
- Three optional plug-in dual circuit modules: OCM NDA DALI (2-wire communication; L/N/PE/DA/DA); OCM NSI (Powerline communication; L/N/PE); OCM NPS (no communication)
- Maximum output power 1000 VA / 750 W

ONLITE central eBox

ONLITE central eBox SUB	9,3	22 185 290
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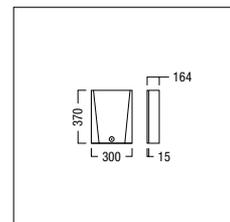
Optional modules

ONLITE central eBox OCM-NDA <input type="checkbox"/>	0,4	22 168 594
ONLITE central eBox OCM-NPS <input type="checkbox"/>	0,4	22 185 295
ONLITE central eBox OCM-NSI <input type="checkbox"/>	0,4	22 185 293

kg

Order no.

960 °C



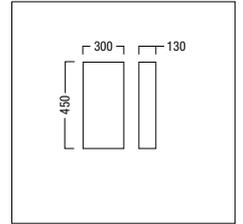
ONLITE central eBox SUB IP65 sub-distribution board



- Sub-distribution station for central supply system including monitoring of LED emergency and escape sign luminaires
- IP65 wall-mounted housing
- Large wiring compartment for easy cable connection
- Cage-clamp terminals for all line outputs
- Three optional plug-in dual circuit modules: OCM NDA DALI (2-wire communication; L/N/PE/DA/DA); OCM NSI (Powerline communication; L/N/PE); OCM NPS (no communication)
- Maximum output power 1000 VA / 750 W

	kg	Order no.
ONLITE central eBox		
ONLITE central eBox SUB IP65	8,5	22 185 292
Optional modules		
ONLITE central eBox OCM-NDA <input type="checkbox"/>	0,4	22 168 594
ONLITE central eBox OCM-NPS <input type="checkbox"/>	0,4	22 185 295
ONLITE central eBox OCM-NSI <input type="checkbox"/>	0,4	22 185 293

960 °C



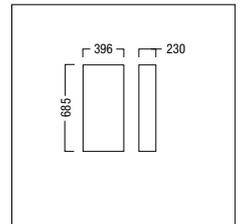
ONLITE central eBox SUB E60 sub-distribution board



- Sub-distribution station with E60 functional endurance with VDE approval mark EN 61 439-1 for central supply system including monitoring of LED emergency and escape sign luminaires
- Tested to DIN 4102 Part 2 by MPA Dresden
- IP65 wall-mounted housing with fire protection for F60 fire resistance
- Impact strength IK 10
- Large wiring compartment for easy cable connection
- Cage-clamp terminals for all line outputs
- Three optional plug-in dual circuit modules: OCM NDA DALI (2-wire communication; L/N/PE/DA/DA); OCM NSI (Powerline communication; L/N/PE); OCM NPS (no communication)
- Maximum output power 1000 VA / 750 W

	kg	Order no.
ONLITE central eBox		
ONLITE central eBox SUB E60	53,0	22 185 291
Optional modules		
ONLITE central eBox OCM-NDA	0,4	22 168 594
ONLITE central eBox OCM-NPS	0,4	22 185 295
ONLITE central eBox OCM-NSI	0,4	22 185 293

960 °C



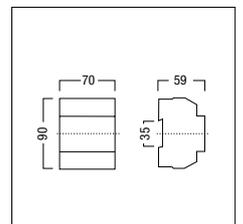
ONLITE central eBox BPD bus phase detector



- Three-phase monitoring module with BUS communication, control cabinet module for DIN-rail mounting
- TÜV certified module for use in emergency lighting installations to EN 50172
- System bus heartbeat monitoring; no fireproof cabling required
- Monitors three-phase supplies for undervoltage, phase failure and open-circuit in neutral line
- 2 floating, isolated alarm inputs for standard phase monitoring loops or fire alarm systems
- Status LED and test button for manual actuation
- Mechanical address witch for up to 9 phase monitors per eBox system
- Rated voltage 230/240 V, 50 Hz
- Permitted input voltage 207–264 V, 50 Hz
- Maximum current consumption 20 mA
- Permitted ambient temperature: 0 °C ... +50 °C

	kg	Order no.
ONLITE central eBox BPD	0,2	22 185 299

960 °C



ONLITE central phase detector II

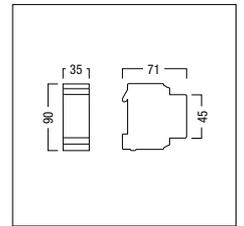
Order no.



- Three-phase monitoring module, control cabinet module for DIN-rail mounting
- Monitors three-phase supplies for undervoltage and phase failure; also detects open-circuit in neutral line
- Green and red status LEDs and test pushbutton for manual actuation
- Two changeover contacts 750 VA (3 A / 250 V AC)
- Fixed switching threshold, 195 V AC ($U_n \times 0.85$)
- Permitted input voltage 3N 400/230 V, 50 Hz
- Power consumption: 16 VA (1.7 W)
- Permitted ambient temperature: -25 °C ... +55 °C
- Trip delay: approx. 100 ms

ONLITE central EPD 2

24 161 074



ONLITE central interface for luminaires

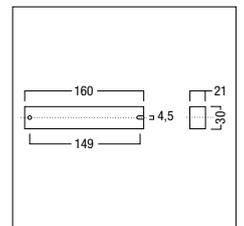
Order no.



- PLC-DALI module converts the Powerline signal into a DALI signal
- Lamp errors are returned to the emergency power source (ONLITE central eBox)
- 20 physically adjustable addresses
- SET DC function via PLC to LED driver or ECG (settable emergency light level in control unit)
- Switching and dimming without additional control line
- With integrated L' switching input'
- The cable from the emergency power supply to the PLC may have a max. length of 300 m
- Input voltage: 230 V AC / 230 V DC
Wattage: AC mode < 2 W (without load), DC mode < 0.5 W (without load)
- Luminaire installation module (max. distance between module and luminaire is 10 m)

ONLITE central PLC DALI Interface III

22 168 875



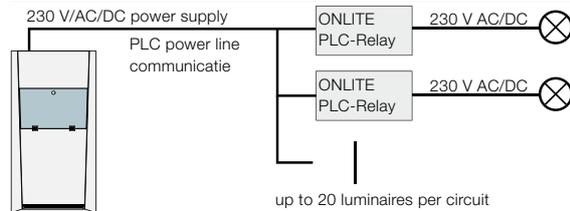
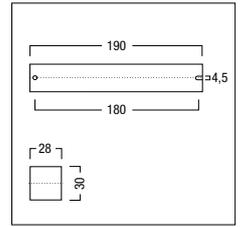
ONLITE central relay for luminaires

Order no.

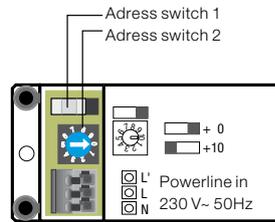


- PLC relay module switches AC/DC-compatible consumers via the Powerline signal
- Lamp faults are reported back to the emergency power supply (ONLITE central LPS)
- 20 physically adjustable addresses
- Switching without additional control line
- With integrated L' switching input'
- Input voltage: 230 V AC / 230 V DC
- Wattage: AC mode < 2 W (without load), DC mode < 0.5 W (without load)
- Luminaire installation module
- The cable from the emergency power supply to the PLC may have a max. length of 300 m

ONLITE central PLC DALI Relais 22 156 805



Luminaire address	Adress switch 1	Adress switch 2
1	0	1
2	0	2
3	0	3
..
10	0	10
11	10	1
12	10	2
..
20	10	10



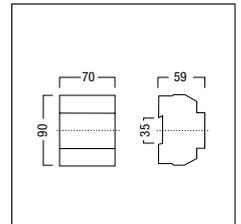
ONLITE central eBox BSIM bus switch input module

kg Order no.



- Four-way switching input module with BUS communication; for DIN-rail mounting in control cabinet
- TÜV certified module for use in emergency lighting installations to EN 50172
- 4 independent mains switching inputs for switching emergency and escape sign luminaires as individual luminaires or across the whole circuit
- Status LED
- Mechanical address switch for up to 9 switching input modules per eBox system
- Rated voltage 230/240 V, 50 Hz
- Permitted input voltage 207–264 V, 50 Hz
- Maximum current consumption 20 mA
- Permitted ambient temperature: 0 °C ... +50 °C

ONLITE central eBox BSIM 0,2 22 185 298



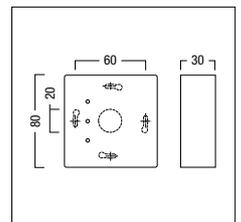
ONLITE central eBox BRI bus remote Interface

kg Order no.



- Remote display of system status using LED indicators
- 2-wire communication over system bus, for ONLITE central eBox status display
- An additional power supply is not needed when using the system bus
- Uses the direct inputs (fault alarm relay of ONLITE Central LPS and ONLITE central CPS)
- 5 pole (+Ub; GND; green LED; yellow LED; red LED)

Accessory **ONLITE BRI** 22 185 300



ONLITE central eBox DSIM DALI switch input module

kg

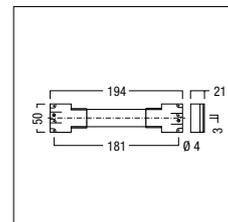
Order no.



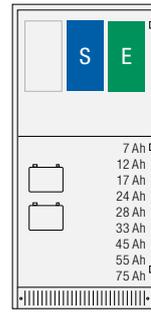
- Dual mains switching input module for DALI-based switching of the emergency and escape sign luminaires
- Address can be set mechanically
- Recessed in ceiling, Dado trunking: 193 x 50 x 21 mm (W x H x D), with terminal cover and strain relief
- For fitting in luminaire: 119 x 30 x 21 mm (W x H x D)

ONLITE central eBox DSIM

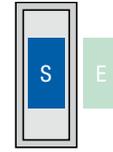
22 185 301



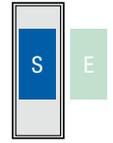
ONLITE central CPS is the individually adjustable solution based on central battery supply, meeting any requirement when it comes to emergency lighting tasks. Today, standard systems switch and monitor individual luminaires at the output circuit. This is done using the ONLITE central CPS modules (E/S). Bi-directional communication takes place via the two-core DALI control line (E). In every system, mixed operation using ONLITE central CPS modules (E/S) is also permitted. In that case, monitoring of luminaires is circuit-based.



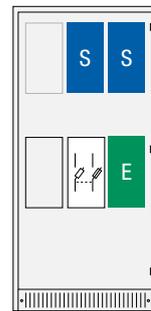
CPS-K
Compact station



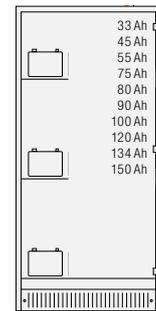
CPS-U E60
Substation



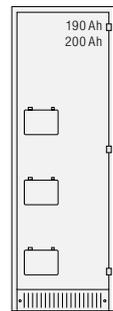
CPS-U E00
Substation



CPS-H
Main station



CPS-BS
Battery cabinet

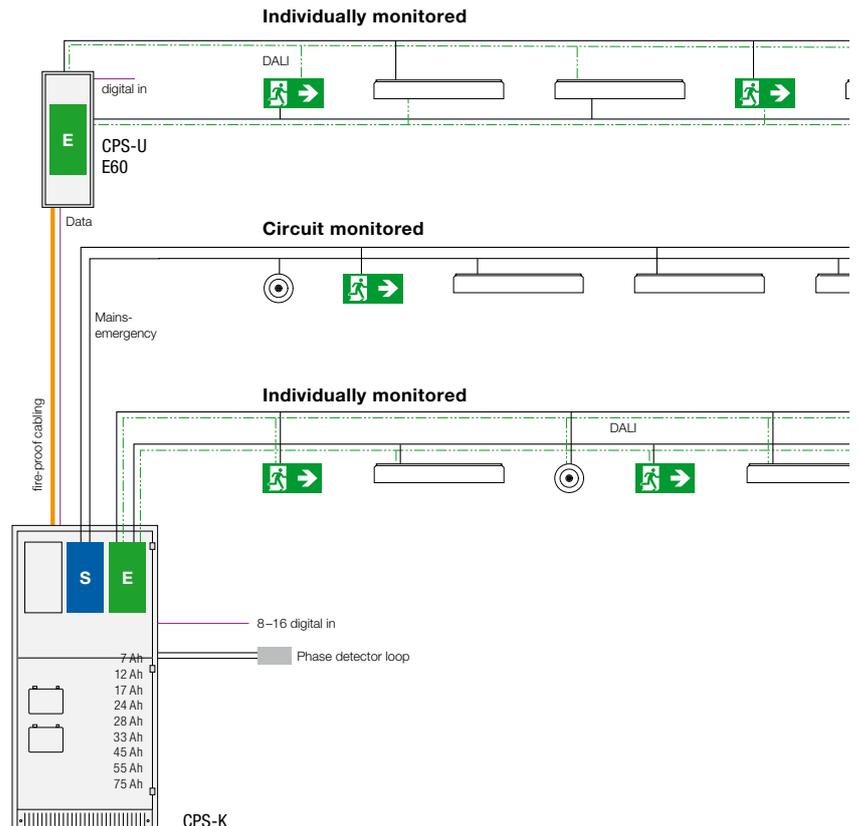


CPS-BS
Battery cabinet

	S	E
	Circuit monitoring	Individual monitoring
Circuits	1 – 20	1 – 20
Number of luminaires	1 – 400	1 – 400
Max. output (W)	4700	4700
Max. output per circuit (W)	1300	1300
Fuse per circuit (A)	10	10
Outgoing terminals (mm ²)	4	4
Digital potential-free inputs	8 – 16	8 – 16

CPS with individual monitoring or circuit monitoring

ONLITE central CPS-K is suitable for properties with average emergency power rating installed in a compact switch cabinet. Emergency luminaires are supplied and monitored directly from the cabinet; outgoing units to sub-distribution cabinets in other fire compartments are also provided.

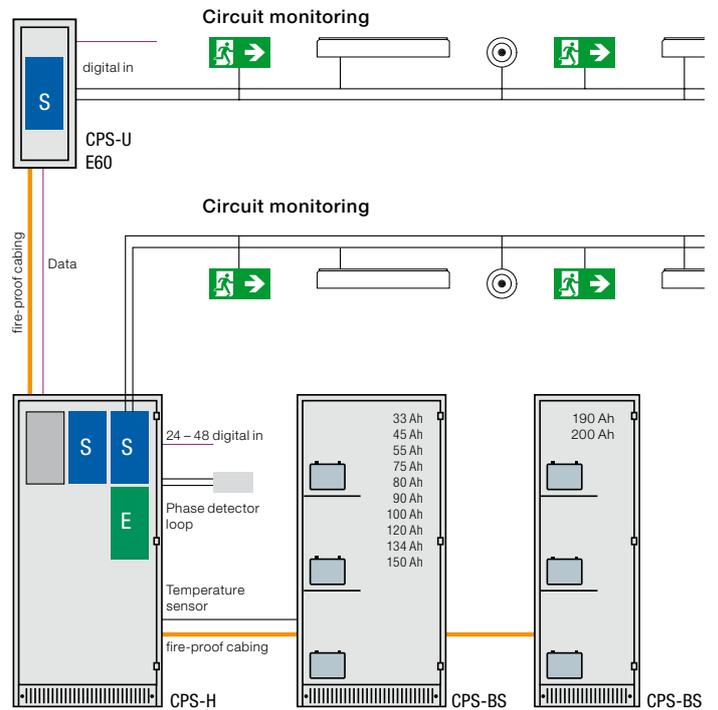


CPS with circuit monitoring

ONLITE central CPS-H stands for maximum emergency power output; here, for lack of space, the batteries are accommodated in one or a max. of two separate battery cabinets. Of course, it is also possible to use a mix of (S) or (E) modules.

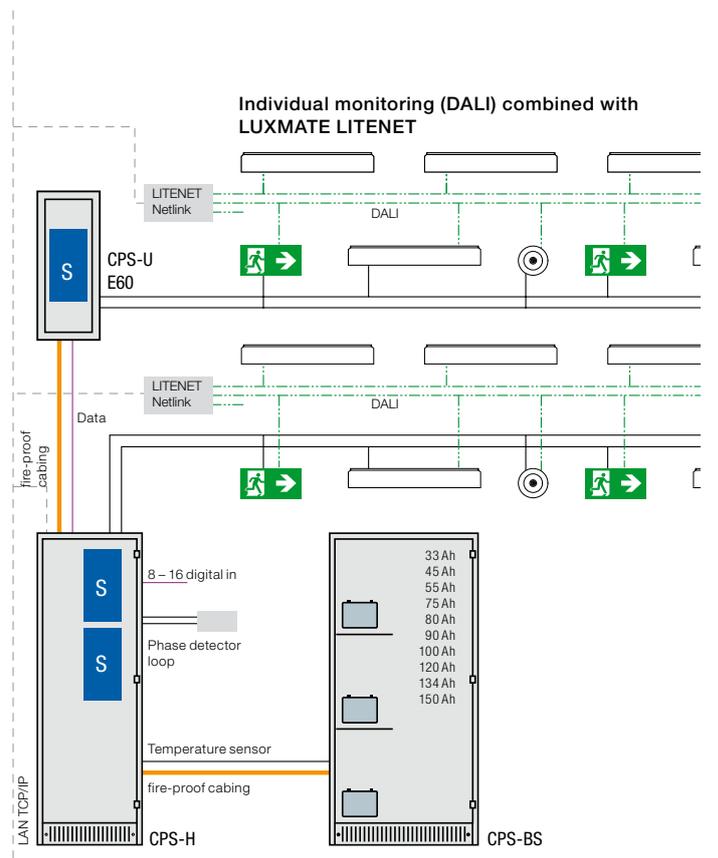
CPS-H main station technical data

Dimensions (H x W x D)	1800 x 850 x 600 mm
Total power	7 – 30 kVA
Max. outgoing circuits	3 x 20
Outgoing units to external UVS	max. 12
Fuse protection UVS	to 35 A
Outgoing terminals UVS	16 mm ²
Battery outgoing terminals	35 mm ²
Battery capacity range	33 – 200 Ah (ext. battery)
Ethernet port	1
Potential free outputs	5
Digital potential-free inputs	8 – 16



CPS integrated into LUXMATE LITENET

This system topology is based on one ONLITE central CPS with circuit-monitored modules (S). All luminaires, whether general or emergency luminaires, are galvanically isolated from one or more common DALI chains and networked to the LAN hardware (Ethernet/TCP/IP) via the LITENET netlink. All status information is available via the LITENET network.



ONLITE central CPS K (CENTRAL POWER SUPPLY)

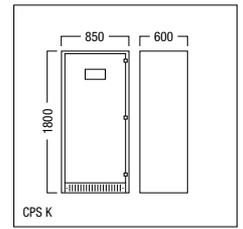
Order no.



- Central battery system in compact cabinet
- Fully automatic execution of tests and documentation in electronic test book
- 2 x 0–20 circuits, with monitoring of individual luminaires or circuit, also mixed monitoring mode in units of 20
- All cable outputs have been prewired on a terminal strip
- 7" Touch PC for operating and visualising the installation
- Ethernet connection for web-browser based system-networking and visualization
- USB/MMC or SD for test book archiving
- Sheet steel housing in powder-coated RAL 7035 finish
- Power per circuit (AC/DC): 1300 W
- Max. 20 luminaires per circuit
- In single-luminaire monitoring mode, each DALI luminaire can be controlled and monitored individually. Mixed operation possible within one circuit.
- Available models:
 - Left/right door hinge
 - Power can be increased up to 21 kVA
 - 0–7 outputs for substations
 - OGI monobloc batteries 216 V, 7–75 Ah in combi-cabinet with temperature-controlled U/I charging

ONLITE central CPS K

22 154 689

**CPS-K main station technical data**

Dimensions (H x W x D)	1800 x 850 x 600 mm
max. 2 outputs for substations	
Total power	7 – 14 kVA
Circuits internal	1 – 40
Outgoing units to external UVS	max. 7
(only possible if there are max. 20 circuits internal)	
Fuse protection UVS	to 35 A
Outgoing terminals UVS	16 mm ²
Battery voltage (18 blocks)	216 V
Battery capacity range	7 – 75 Ah
Ethernet port	1
Potential free outputs	5
Digital potential-free inputs	8 – 16 (per UVS)

Battery sets	Batteries 18 blocks (kg)	CPS-K (kg)	Total weight CPS-K (kg)
7 Ah	45	180	~ 225
12 Ah	71	180	~ 251
17 Ah	107	180	~ 287
24 Ah	162	180	~ 342
28 Ah	175	180	~ 355
33 Ah	211	180	~ 391
45 Ah	267	180	~ 447
55 Ah	324	180	~ 504
75 Ah	432	180	~ 612

ONLITE central CPS U (CENTRAL POWER SUPPLY)

Order no.



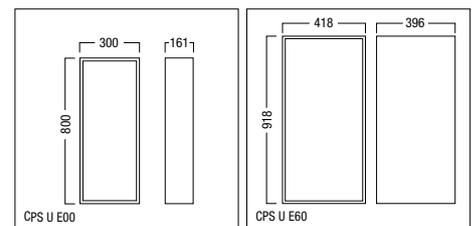
- Sub-distribution system for emergency lighting housed in sheet-steel cabinet in powder-coated RAL 7010 finish
- 1–20 circuits, monitoring of individual luminaires or circuit
- All cable outputs have been prewired on a terminal strip
- Power per circuit (AC/DC): 1300 W
- Max. 20 luminaires per circuit
- In single-luminaire monitoring mode, each DALI luminaire can be controlled and monitored individually. Mixed operation possible within one circuit.
- Available models:
 - Left/right door hinge
 - E60 model possible; RAL 7035

ONLITE central CPS U E00

22 154 691

ONLITE central CPS U E60 IP54

22 154 692



ONLITE central CPS H (CENTRAL POWER SUPPLY)

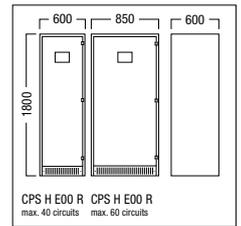
Order no.



- Central battery facility housed in sheet steel cabinet in powder-coated RAL 7035 finish
- Fully automatic execution of tests and documentation in electronic test book
- 3 x 0–20 circuits, with monitoring of individual luminaires or circuit, also mixed monitoring mode in units of 20
- All cable outputs have been prewired on a terminal strip
- Ethernet connection for web-browser based system-networking and visualization
- 7" Touch PC for operating and visualising the installation
- USB/MMC or SD for test book archiving
- Power per circuit (AC/DC): 1300 W
- Max. 20 luminaires per circuit
- In single-luminaire monitoring mode, each DALI luminaire can be controlled and monitored individually. Mixed operation possible within one circuit.
- Please order batteries separately for fitting in external battery box or on battery rack
- Available models:
 - Left/right door hinge
 - Power increase up to 30 kVA
 - 0–12 outputs for substations

ONLITE Central CPS H

22 154 690

**CPS-H main station technical data**

Total power	7 – 30 kVA
Circuits internal	1 – 60
Fuse UVS	up to 35 A
Battery outgoing terminals	35 mm ²
Battery capacity range	33 – 200 Ah (ext. battery)
Ethernet port	1
Potential free outputs	5
Digital potential free inputs	8 – 16
Dimensions (H x W x D) (max. 40 internal circuits; no outputs for substation)	1800 x 600 x 600 mm
Total weight CPS-H	114 kg
Outgoing units to external UVS	max. 12 (240 circuits external)
Dimensions (H x W x D) (max. 60 internal circuits; with outputs for substation)	1800 x 850 x 600 mm
Outgoing terminals UVS	16 mm ²
Total weight CPS-H	180 kg

ONLITE central phase detector II

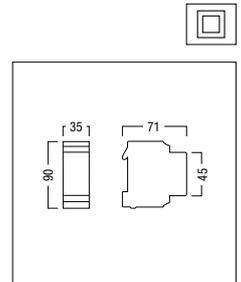
Order no.



- Three-phase monitoring module, control cabinet module for DIN-rail mounting
- Monitors three-phase supplies for undervoltage and phase failure; also detects open-circuit in neutral line
- Green and red status LEDs and test pushbutton for manual actuation
- Two changeover contacts 750 VA (3 A / 250 V AC)
- Fixed switching threshold, 195 V AC ($U_n \times 0.85$)
- Permitted input voltage 3N 400/230 V, 50 Hz
- Power consumption: 16 VA (1.7 W)
- Permitted ambient temperature: -25 °C ... +55 °C
- Trip delay: approx. 100 ms

ONLITE central EPD 2

24 161 074



ONLITE central CPS BS

Order no.



- Sheet-steel battery cabinet in powder-coated RAL 7035 finish with compartment trays for batteries
- Electrolyte collection tray built into base of cabinet
- Temperature sensor can be installed in battery cabinet
- Connecting leads included with batteries
- OGI monobloc batteries 216 V, 7–200 Ah
- Available models:
- Left/right door hinge

ONLITE central CPS BS 33-75Ah	22 154 693
ONLITE central CPS BS 80-134Ah	22 162 076
ONLITE central CPS BS 120Ah	22 162 077
ONLITE central CPS BS 150Ah	22 162 078
ONLITE central CPS BS 190+200Ah	22 162 079

External battery cabinet (CPS-BS)

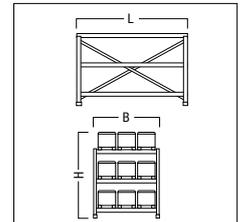
Set of batteries	Batteries 18 blocks (kg)	CPS-BS H x W x D (mm)	CPS-BS (kg)	Total weight CPS-BS (kg)
33 Ah	211	1600 x 600 x 600	80	291
45 Ah	267	1600 x 600 x 600	80	347
55 Ah	324	1600 x 600 x 600	80	404
75 Ah	432	1600 x 600 x 600	80	512
80 Ah	472	1800 x 850 x 600	100	572
90 Ah	540	1800 x 850 x 600	100	640
100 Ah	540	1800 x 850 x 600	100	640
120 Ah	679	1800 x 950 x 600	130	809
134 Ah	765	1800 x 850 x 600	130	895
150 Ah	836	1800 x 1100 x 600	150	986
190 Ah	1167	2x1800 x 850 x 600	260	1427
200 Ah	1206	2x1800 x 850 x 600	260	1466

ONLITE central CPS BG



- Longitudinal and cross-struts made of sinter-coated, fully insulated, acid-resistant PE
- Height-adjustable feet made of insulating plastic
- Quick, easy and clean to install
- Withstand voltage to DIN VDE 0100 and DIN VDE 0510 TV
- Simple grounding facility

Battery rack	L/W/H	kg	Order no.
ONLITE central BG f. 120 Ah	900/715/1301	39,0	22 161 978
ONLITE central BG f. 150 Ah	1050/715/1314	50,0	22 161 979
ONLITE central BG f. 190 u. 200 Ah	1200/930/1317	67,0	22 161 980
ONLITE central BG f. 33-75 Ah	600/715/1289	27,0	22 154 694
ONLITE central BG f. 80-100 u. 134 Ah	750/715/1351	43,0	22 161 977



Art. no. battery rack	for battery set	Weight battery set [kg]	Positioning of batteries	Tiers	Rows	Height (HB) above battery [mm]
22154694	33 Ah	211	horizontal	3	2	1300
	45 Ah	267	horizontal	3	2	1300
	55 Ah	324	horizontal	3	2	1300
	75 Ah	432	horizontal	3	2	1300
22161977	80 Ah	472	horizontal	3	2	1350
	90 Ah	540	horizontal	3	2	1350
	100 Ah	540	horizontal	3	2	1350
	134 Ah	765	horizontal	3	2	1350
22161978	120 Ah	679	horizontal	3	2	1350
22161979	150 Ah	836	horizontal	3	2	1350
22161980	190 Ah	1167	horizontal	3	2	1350
	200 Ah	1206	horizontal	3	2	1350

ONLITE central monobloc battery

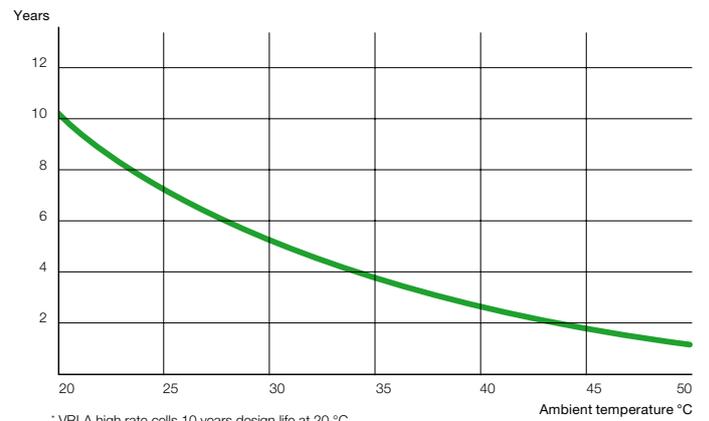


- OGiV high-rate pasted plates (lead/calcium)
- DIN EN 60896-2:1997 compliant
- Absorbent glass mat technology
- ABS case and lid
- Recessed threaded brass core, post terminals
- Extremely low gas emission
- Low self-discharge
- 100 % recyclable
- Units are maintenance free
- 7–200 Ah capacity in 12 V monoblocs

10-year monobloc battery

	L/W/H	Order no.
Accu Pb/10 12V 7Ah Connection: Faston	151/65/94	22 162 309
Accu Pb/10 12V 12Ah Connection: Faston	151/98/95	22 162 307
Accu Pb/10 12V 17Ah Connection: M5	181/77/167	22 154 695
Accu Pb/10 12V 24Ah Connection: M5	166/175/125	22 154 696
Accu Pb/10 12V 28Ah Connection: M5	165/125/182	22 154 697
Accu Pb/10 12V 33Ah Connection: M6	195/130/172	22 154 698
Accu Pb/10 12V 45Ah Connection: M6	197/165/170	22 154 699
Accu Pb/10 12V 55Ah Connection: M6	239/132/210	22 154 700
Accu Pb/10 12V 75Ah Connection: M6	258/166/215	22 154 702
Accu Pb/10 12V 80Ah Connection: M6	350/167/179	22 154 703
Accu Pb/10 12V 90Ah Connection: M6	306/169/214	22 154 704
Accu Pb/10 12V 100Ah Connection: M6	330/171/222	22 154 705
Accu Pb/10 12V 120Ah Connection: M8	410/176/277	22 154 706
Accu Pb/10 12V 134Ah Connection: M8	342/172/277	22 154 707
Accu Pb/10 12V 150Ah Connection: M8	485/172/240	22 154 708
Accu Pb/10 12V 200Ah Connection: M8	522/238/223	22 154 710

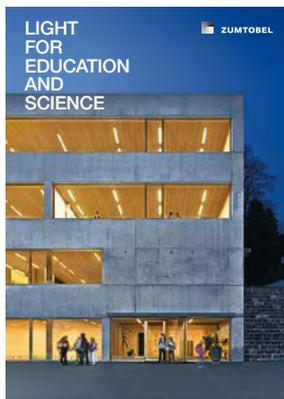
Battery Lifetime *



* VRLA high rate cells 10 years design life at 20 °C



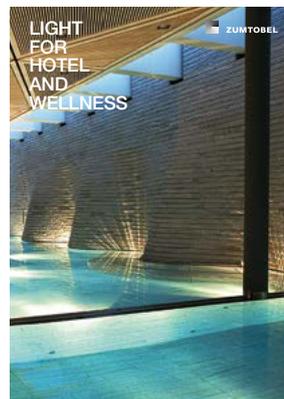
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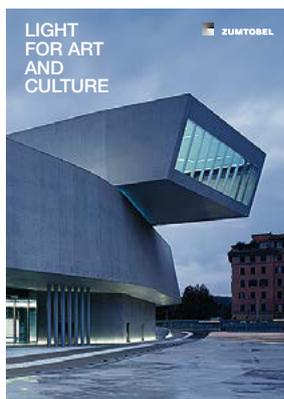
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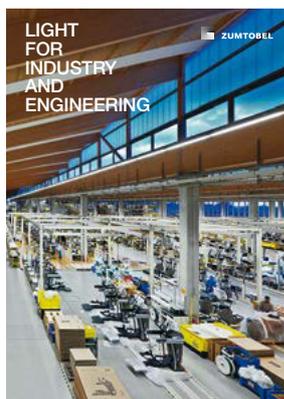
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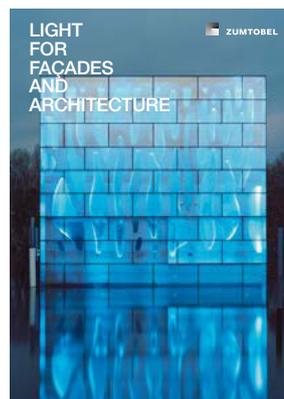
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Zumtobel, a company of the Zumtobel Group, is an internationally leading supplier of integral lighting solutions for professional indoor and outdoor building lighting applications.

- Offices and Communication
- Education and Science
- Presentation and Retail
- Hotel and Wellness
- Art and Culture
- Health and Care
- Industry and Engineering
- Façades and Architecture

We provide unique customer benefits by integrating technology, design, emotion and energy efficiency. Under the Humanergy Balance concept, we combine the best possible ergonomic lighting quality for an individual's well-being with the responsible use of energy resources. The company's own sales organisations in twenty countries, as well as commercial agencies in fifty other countries, form an international network of experts and design partners providing professional lighting consulting, design assistance and comprehensive services.

Lighting and sustainability

In line with our corporate philosophy *"We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment"*, Zumtobel offers energy-efficient high-quality products, while at the same time making sure that our production processes based on the considerate use of resources are environmentally compatible.

zumtobel.com/sustainability



Top quality – with a five-year guarantee.
As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products in accordance with the terms of guarantee at zumtobel.com/guarantee.

EN 05/15 © Zumtobel Lighting GmbH
Technical data was correct at time of going to press.
We reserve the right to make technical changes without notice. Please contact your local sales office for further information. For the sake of the environment: Luxo Light is chlorine-free paper from sustainably managed forests and certified sources.





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Recessed luminaires



Surface-mounted and pendant luminaires

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Shanghai office
Room 101,
No 192 YIHONG Technology Park
Tianlin Road, Xuhui District
Shanghai City, 200233, P.R. China
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Free-standing and wall-mounted luminaires

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info@zumtobel.info



Continuous-row systems and individual batten luminaires

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32657 Lemgo, GERMANY
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F +49/(0)5261 212-7777
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High-bay luminaires and floodlight reflector systems

India

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Gurgaon 122002, Haryana, India
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Luminaires with extra protection

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Emergency lighting



Medical supply systems





ZUMTOBEL

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Emergency lighting
and emergency lighting
systems

