ZUMTOBEL

ONLITE

Product range

Emergency lighting
and emergency lighting
systems

linked

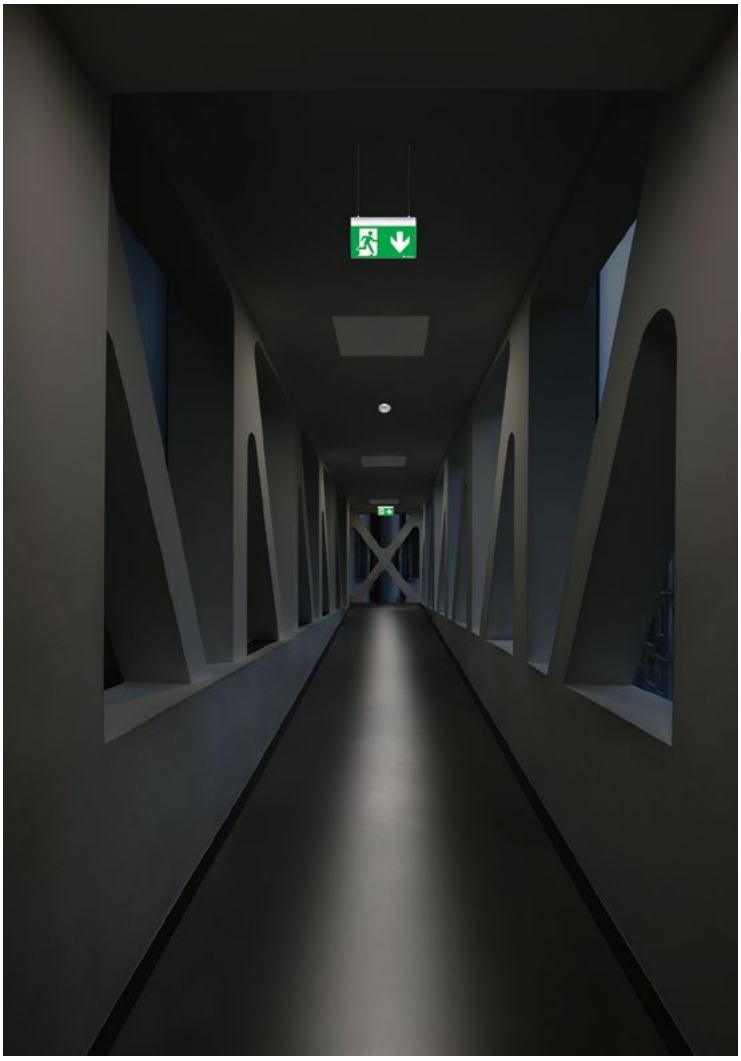
All order numbers in the
PDF are linked to the Zumtobel
online catalogue.

Perfectly illuminated escape routes ensure that people can leave a building safely in an emergency. Illuminated emergency 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

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 emergency sign luminaires cannot fail to impress in everday 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.

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ONLITE emergency 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 emergency sign luminaires ensures low energy consumption and little maintenance effort. Numerous installation and supply options are provided for each model. The extensive Zumtobel product porfolio ranges from a little design sensation through to luminaires with an increased recognition range or higher protection rating.

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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.

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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.

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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.

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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.

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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 emergency 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. Emergency 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

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 emergency sign luminaires, ONLITE RESCLITE emergency luminaires, LUXMATE LITENET lighting management system, EnOcean and CIRCLE control points, Zumtobel luminaires

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 emergency 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 m^2, 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.

Recommended products


COMSIGN 150


PURESIGN 150


RESCLITE antipanic


ONLITE local


ONLITE central eBox

ONLITE application areas

Reykjavík University | IS
Architects: Henning Larsen Architects, Copenhagen | DK
ARKIS Architects, Reykjavík | IS
Lighting design: VERKIS, Reykjavík | IS
Electrical installations: Rafmiolum hf, Reykjavík | 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

COMSIGN 150 | PURESIGN 150 | CROSSIGN 110/160 | RESCLITE wall | ONLITE central CPS

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 emergency 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 Belvoir, Rüschlikon | CH
Client: Heinz P. Meier, Hotel Belvoir, Rüschlikon | 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 emergency sign luminaires, ONLITE RESCLITE emergency luminaires, ZBOX lighting control system, LUXMATE PROFESSIONAL lighting management system, Zumtobel luminaires

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 emergency 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 emergency 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 emergency 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.

Recommended products


COMSIGN 150

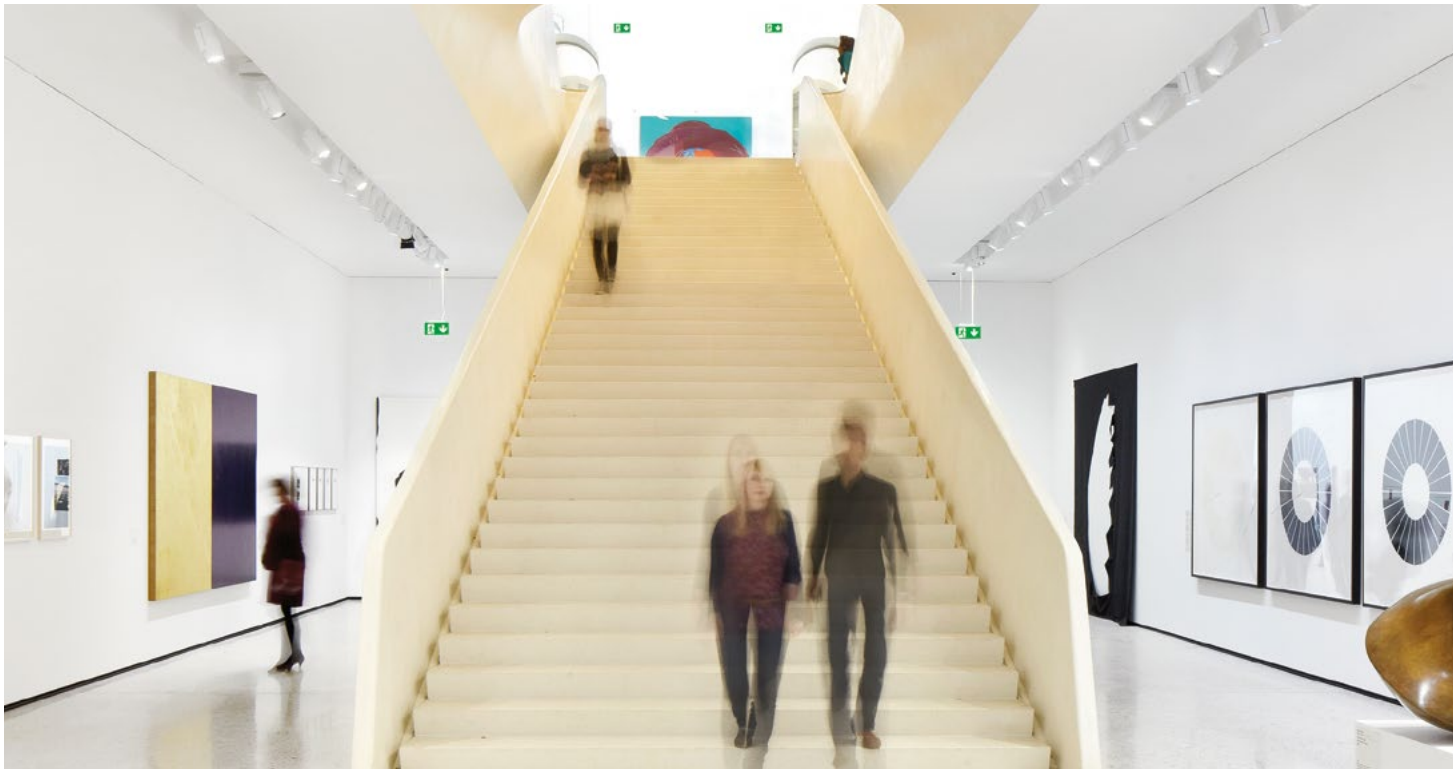

PURESIGN 150


ERGOSIGN


RESCLITE spot


ONLITE central eBox


ONLITE central CPS



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 emergency 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

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 emergency sign luminaires, LUXMATE LITENET lighting management system, Zumtobel luminaires

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 emergency 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.

Recommended products


COMSIGN 150


PURESIGN 150


CROSSIGN 110 / 160


CUBESIGN 210


RESCLITE escape


ONLITE central eBox


ONLITE central CPS

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 emergency sign luminaire, Zumtobel luminaires

Industry and engineering

Harsh environmental conditions are frequently encountered in industry. Zumtobel offers emergency and emergency 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 emergency signs must be visible from a long distance, emergency 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


ERGOSIGN


CROSSIGN 110 / 160


ECOSIGN


SQUARE-SIGN 300


RESCLITE high ceilings


ONLITE central eBox


ONLITE central CPS

Responsible use of resources
Zumtobel and sustainability

European Core EPD

Institute Construction
and Environment e.V.

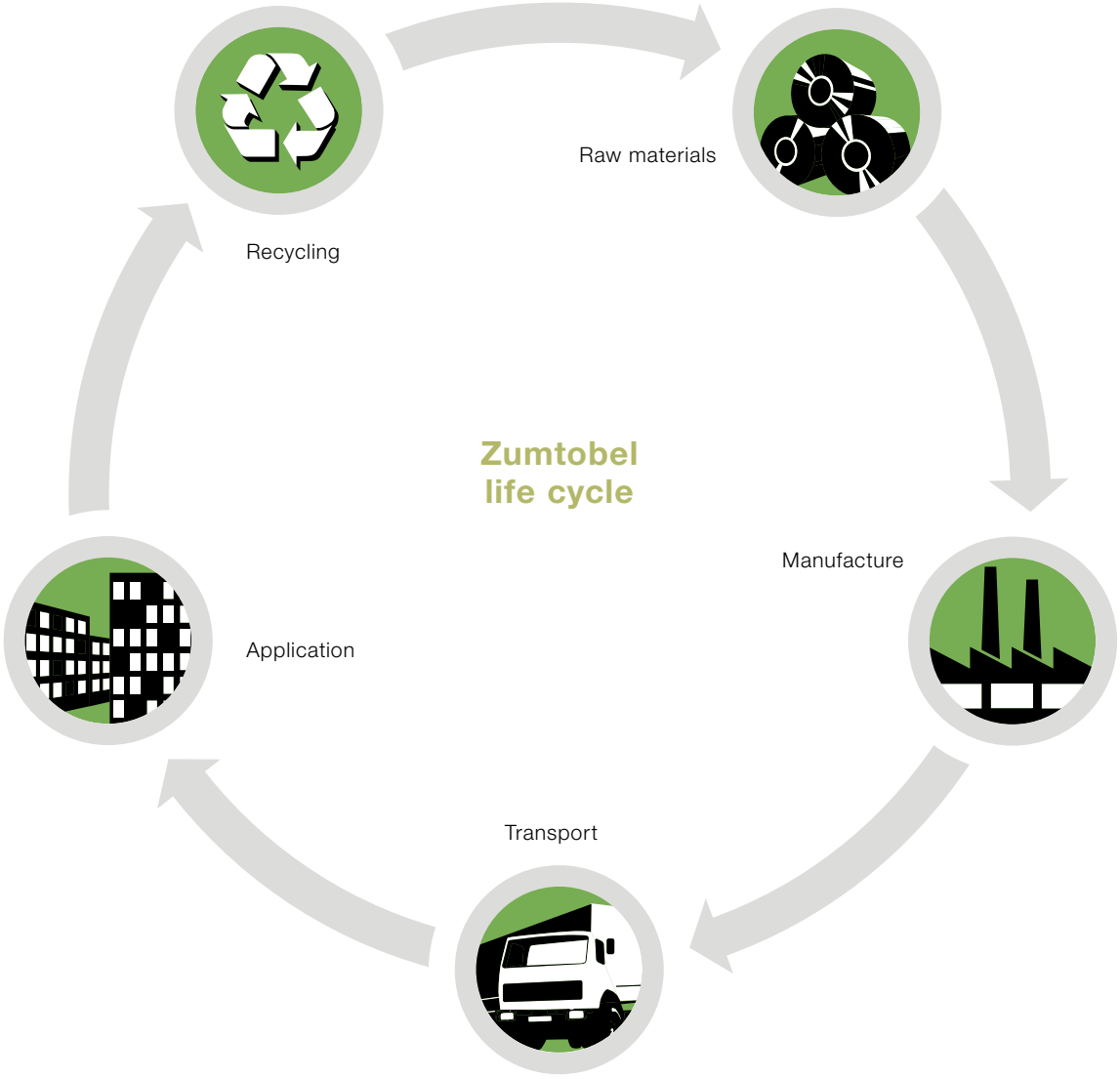
Life cycle of Zumtobel products
The Zumtobel life cycle assessment is based on the international ISO 14 040/44 standard. By means of this generally accepted, reliable tool, the environmental impact of a product is measured and assessed over its entire life cycle – from production of raw materials to 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.

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. Sustainabililty and the strive to optimise transport logistics on an ongoing basis are important criteria when choosing our carriers.

Application

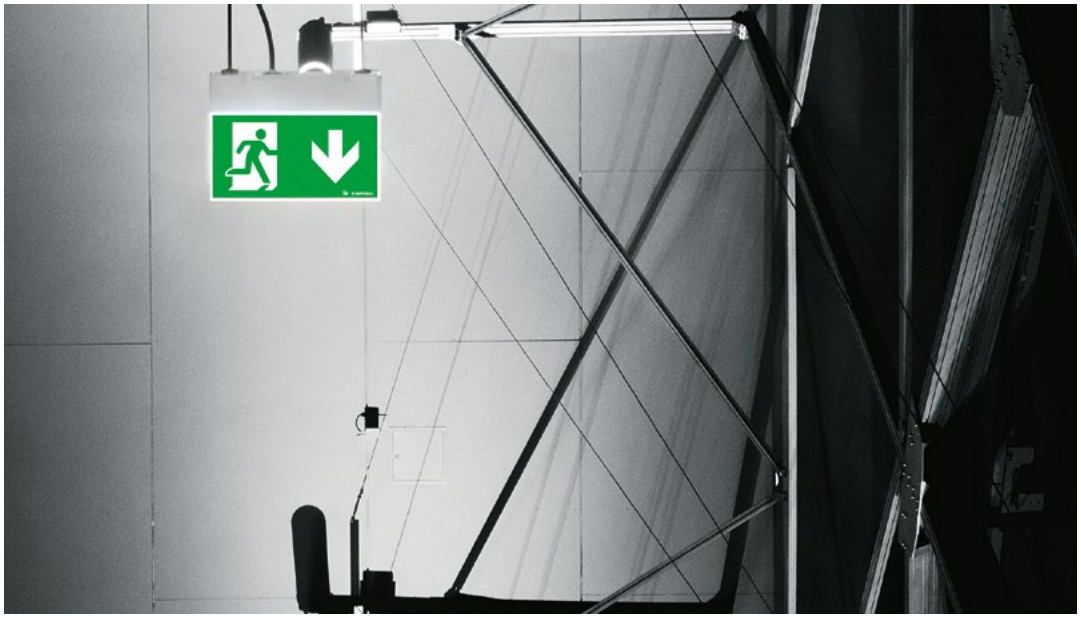
Some 90 % of the environmental impact of Zumtobel luminaires are caused during the phase of use. In this decisive stage of the life cycle, ONLITE scores high on account of its energy-efficient, durable LED technology, intelligent control gear, low energy consumption at the beginning of its service life,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

Recycling

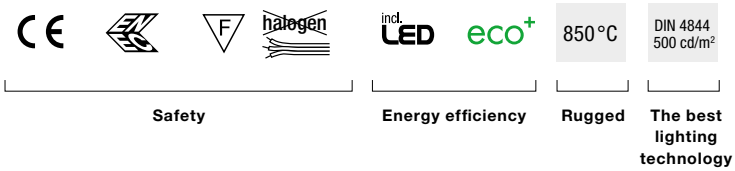
Products by Zumtobel feature a modular design, which means that individual modules can easily be replaced. One example is the no-tool replacement of batteries in the luminaires. Instead of replacing the luminaire as a whole, the respective spare part is simply ordered at Zumtobel – batteries, control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

Assuring quality
Certified products guaranteed

Zumtobel's emergency and emergency 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.



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.

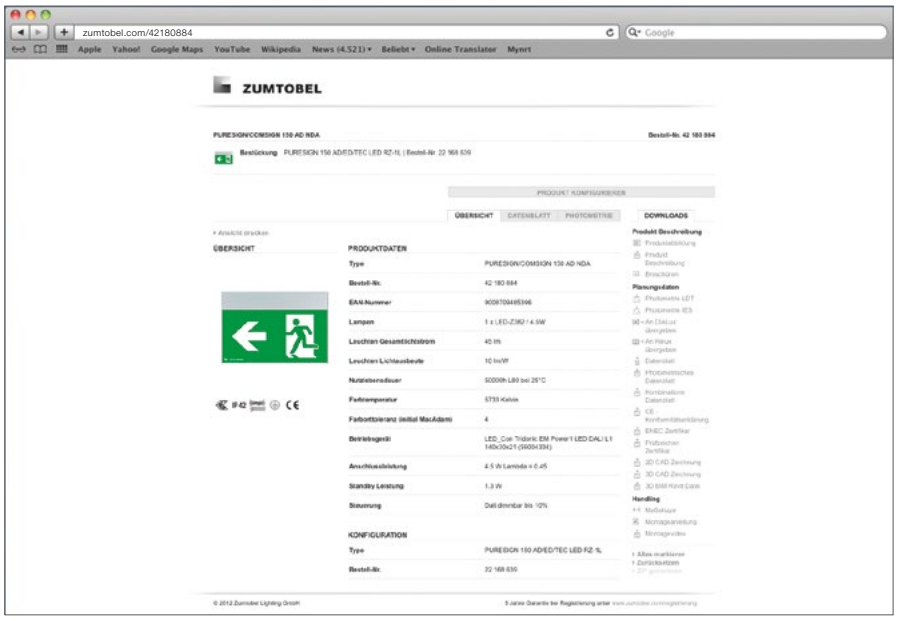
zumtobel.com/spare_parts
zumtobel.com/guarantee

5
YEAR GUARANTEE

Well informed at all levels
Current details on luminaires and standards

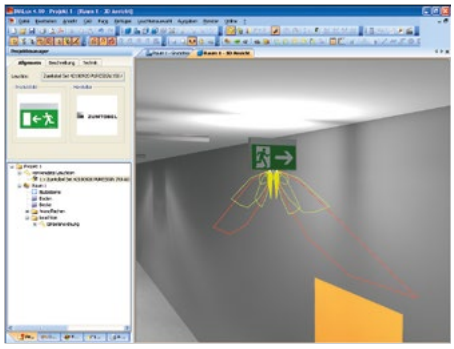
Web site and product database
The Zumtobel website includes all relevant information, from product descriptions, technical data, dimensional sketches, installation instructions and light distribution curves to certificates awarded. For each product, this wealth of information is also offered as a concise 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



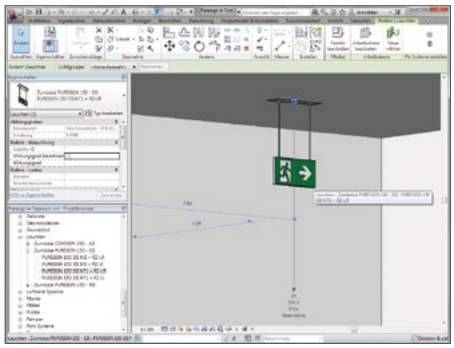
Standards brochures

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.



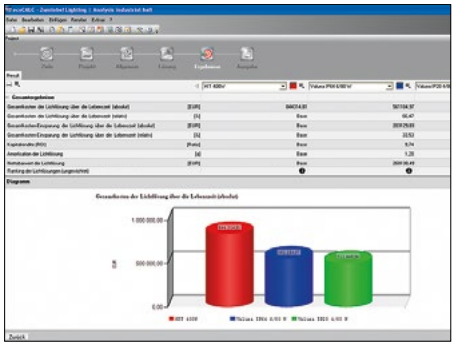
DIALux

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 emergency 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 CO_2 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

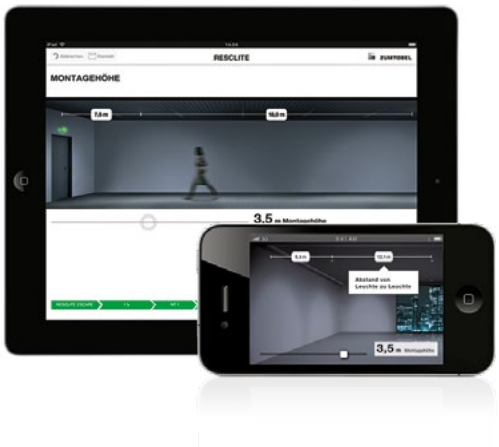
To get a first impression
Programmes specifically developed for that purpose demonstrate the functions of Zumtobel's various control systems in an easy, comprehensible manner.

zumtobel.com/onlite

The ONLITE web app

Finding the perfect product easily and quickly
In no more than eight steps, the web app for emergency 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.

Download on the App 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 emergency sign luminaires are ready for operation.

QR code
A QR (quick response) code is attached to all packaging and housings of Zumtobel emergency and emergency 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

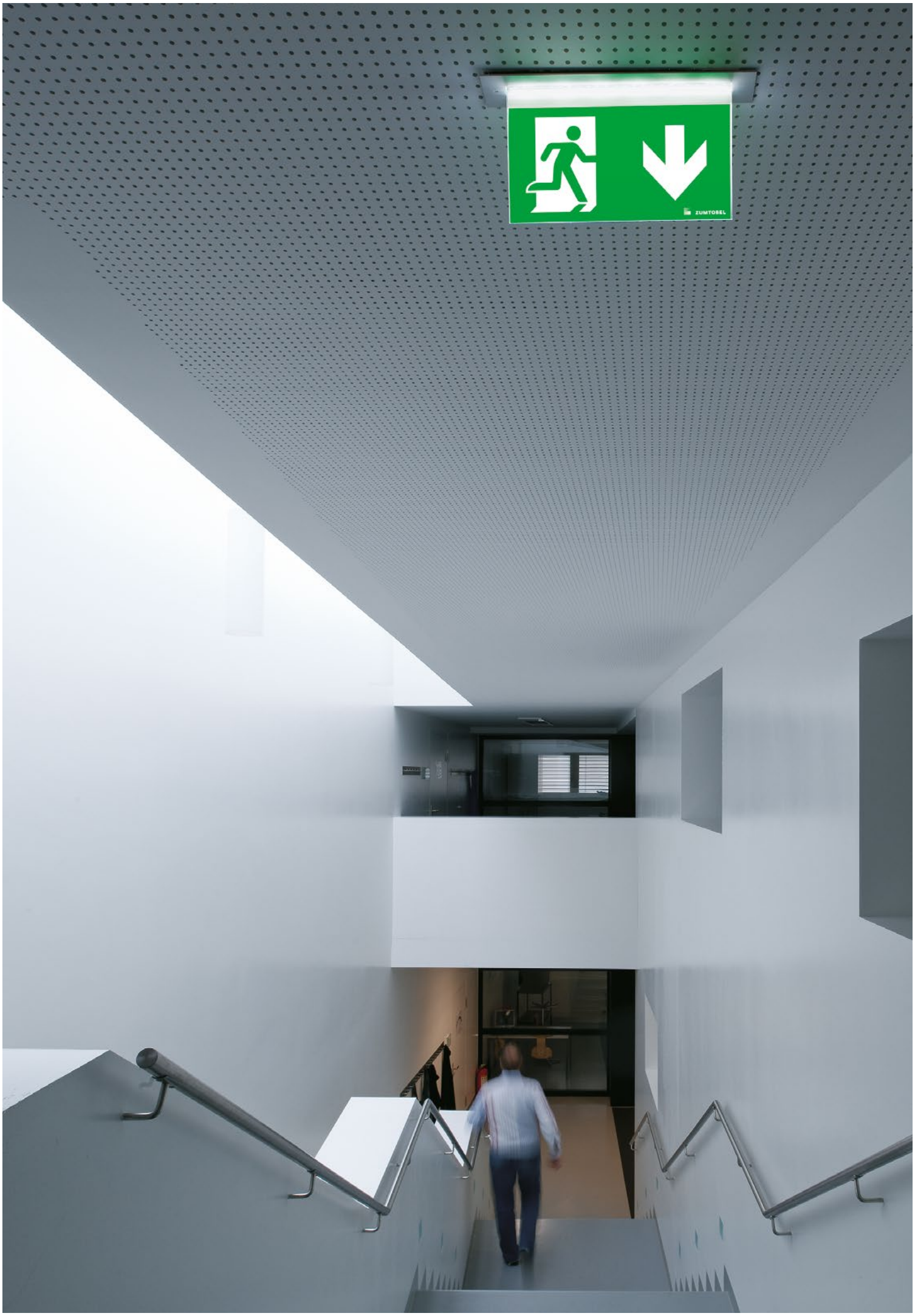
After commissioning, Zumtobel assumes regular maintenance of the emergency lighting installation if required. This ensures permanent availability and operational reliability. In addition, the installation can be adjusted to new building situations on an ongoing basis, for instance in the case of an extension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

zumtobel.com/maintenance

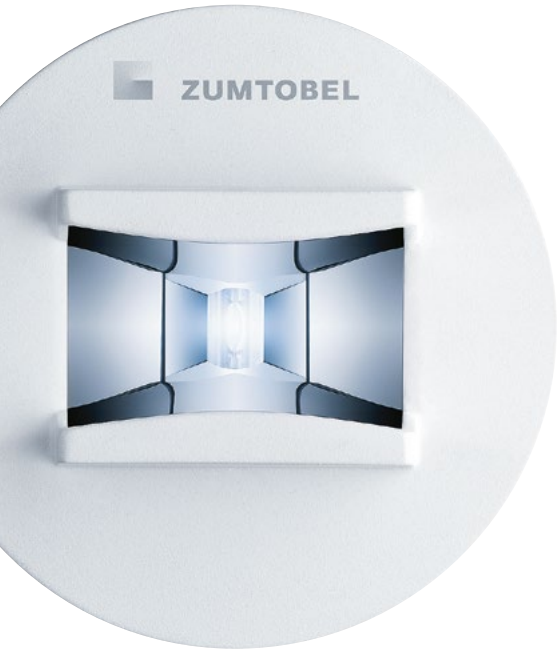
Special maintenance contracts tailor-made for the customer ensure that individual maintenance needs are met – for a fixed sum that can be provided for in the budget. The maintenance contract may include a variety of services:

- 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.


ZUMTOBEL

ONLITE Emergency lighting


ZUMTOBEL

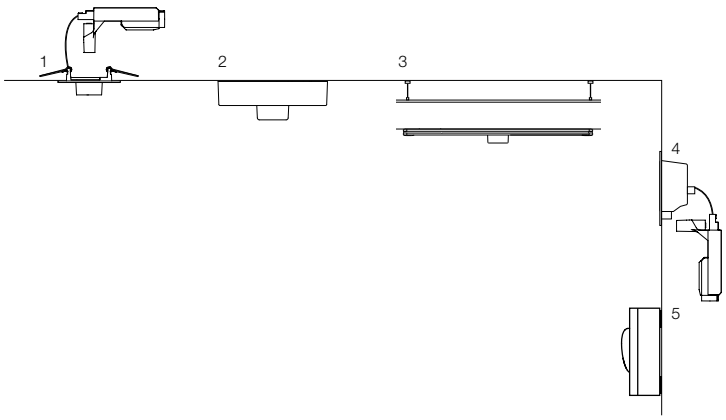

ZUMTOBEL

ONLITE emergency luminaires

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°)

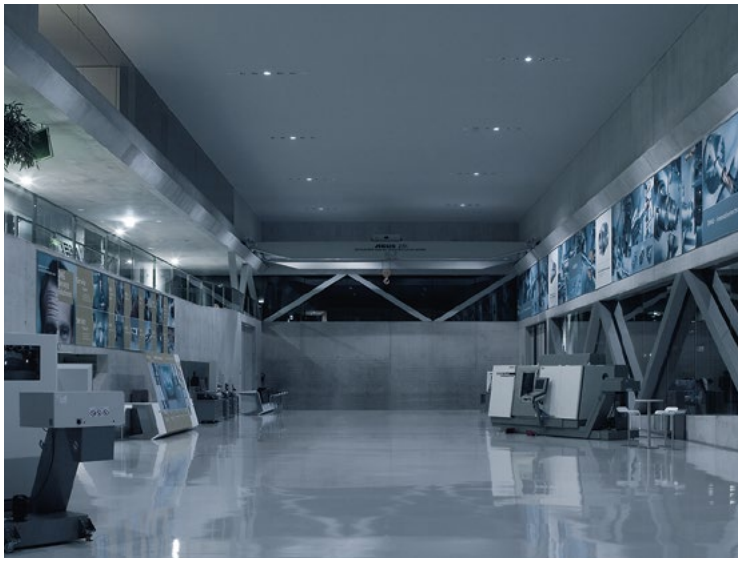
Using a power LED and four sophisticated optics, RESCLITE paves the way to a new era of emergency lighting. Thanks to maximum efficiency and perfect light distribution, a few luminaires are enough to provide emergency lighting in conformity with relevant standards. And yet the powerful RESCLITE LED power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

Download on the App Store

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 emergency sign luminaires, PANOS downlights

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.

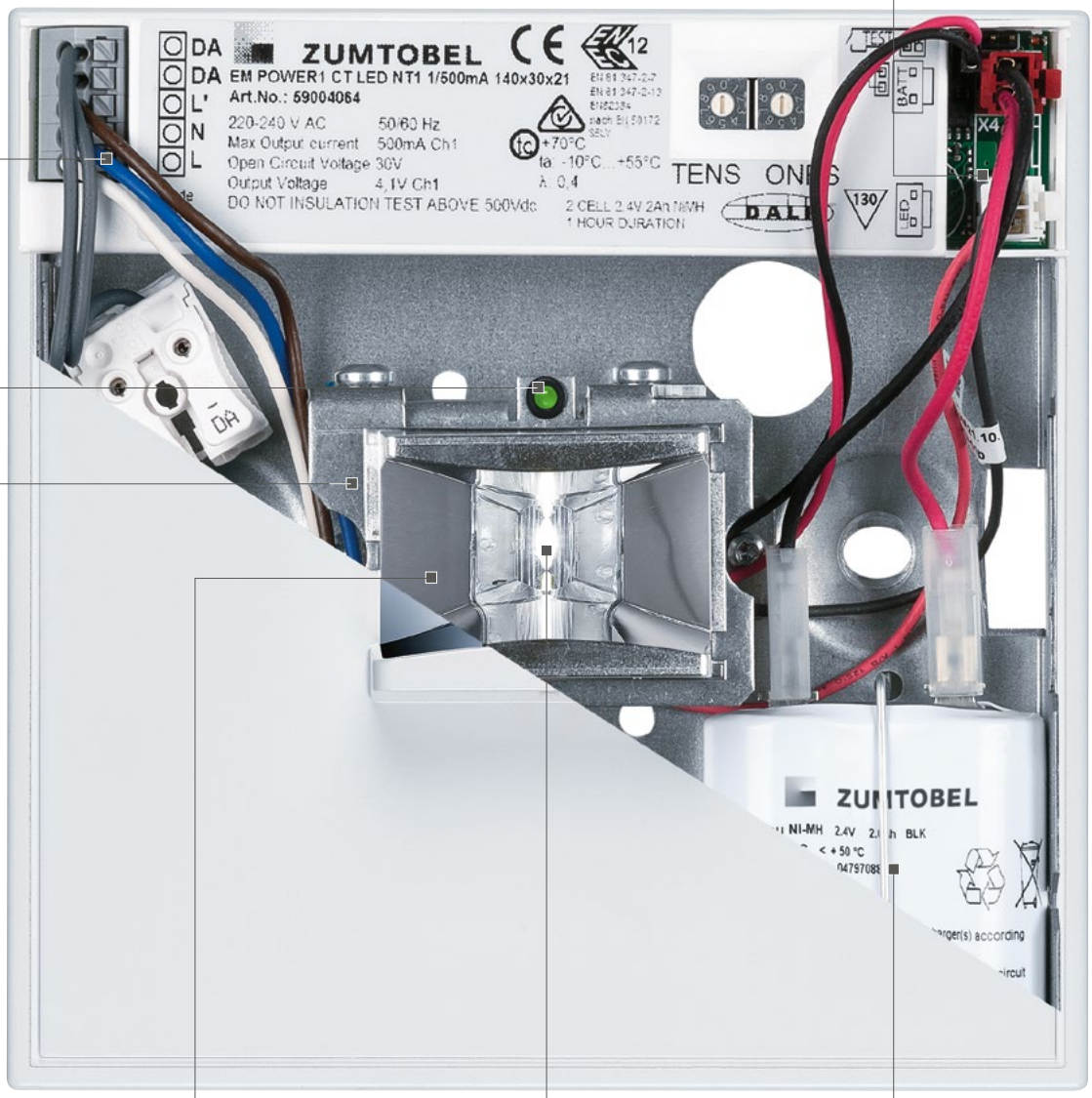
Thermal management
Although LEDs are very robust and have a long service life, they are sensitive to high temperatures. Due to the LEDs' low wattage the luminaire produces only very little heat, but Zumtobel has also implemented a special thermal management system: special heat sinks attached directly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

The lighting technology of the LED emergency luminaire is dedicated completely to luminaire efficiency. Unequalled 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.

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.

IP65

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.

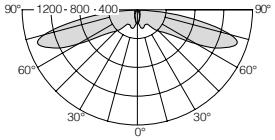
RESCLITE wall IP65
Shown in original size

ONLITE RESCLITE escape high performance

Maximum luminaire spacing
up to 34.8 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 34 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. RESCLITE escape can optionally be installed directly in a ceiling, surface-mounted or integrated in the TECTON trunking system.

IP 40



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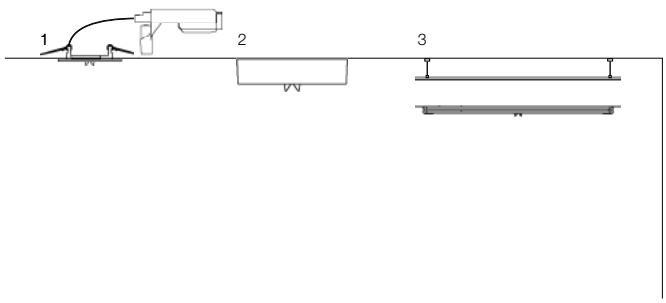
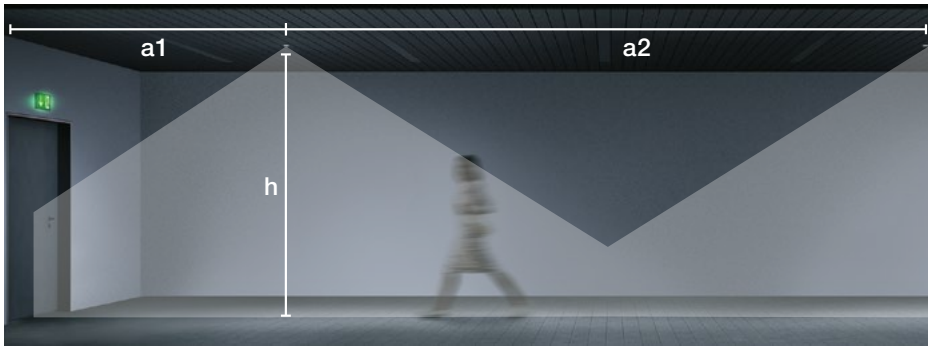


1 Recessed into ceiling
Ceiling cut-out Ø 68 (±2) mm
Intermediate ceiling height at least 125 mm
Wall thickness 1–25 mm
2 Surface-mounted
Hole spacing 100 mm*
Hole spacing 90 mm**
3 TECTON
Length 498 mm

** with variant NT1, NT3*
*** with variant NDA, NSI, NPS*



h	a1						a2					
Mounting height (m)	Wall/luminaire max. distance (m)						Luminaire/luminaire max. distance (m)					
	1 lx		5 lx		1 fc		1 lx		5 lx		1 fc	
	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	-	-	-	-

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) 145.6 x 145.6 x 34.3 mm (surface-mounted) 145.6 x 145.6 x 55.4 mm (surface-mounted separate battery)
Application EN 1838	Escape route lighting

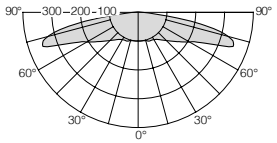
Factors of spacing table:
Maintenance factor: 0.8 | Uniformity: 1:40 max.
1 lx for escape route lighting in compliance with EN 1838 | Reflection factor: 0
Minimum illuminance level along the centre line of the escape route: 1 lx
2/5 lx for escape route lighting in compliance with UNI EN 50172
Reflection 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. RESCLITE antipanic can optionally be installed directly in a ceiling, surface-mounted or integrated in the TECTON trunking system.

IP 40



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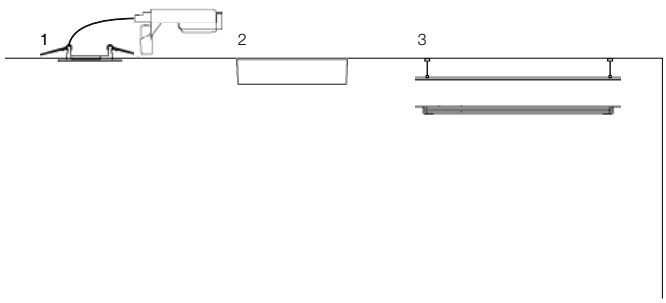
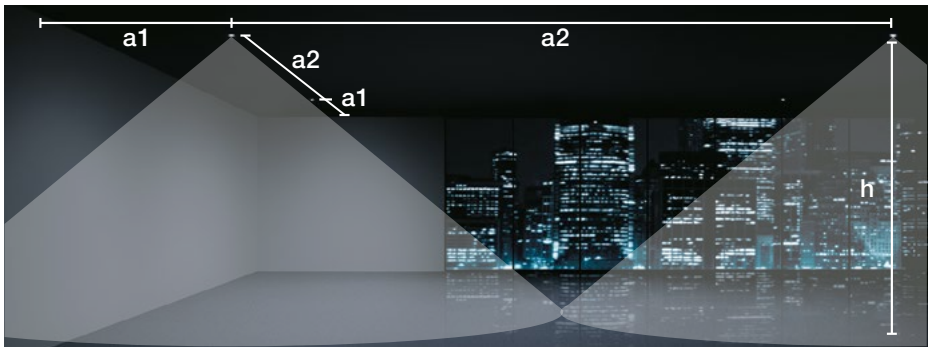


1 Recessed into ceiling
Ceiling cut-out Ø 68 (±2) mm
Intermediate ceiling height at least 125 mm
Wall thickness 1–25 mm
2 Surface-mounted
Hole spacing 100 mm*
Hole spacing 90 mm**
3 TECTON
Length 498 mm

** with variant NT1, NT3*
*** with variant NDA, NSI, NPS*



h	a1				a2			
Mounting height (m)	Wall / luminaire max. distance (m)				Luminaire / luminaire max. distance (m)			
	0,5 lx		2 lx		0,5 lx		2 lx	
	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	-	-

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) 145.6 x 145.6 x 34.3 mm (surface-mounted) 145.6 x 145.6 x 55.4 mm (surface-mounted separate battery)
Application EN 1838	Antipanic lighting

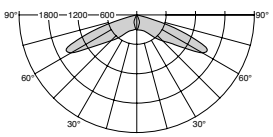
Factors of spacing table:
Factor de mantenimiento: 0,8 | Uniformidad: máx. 1:40
0,5 lux para la iluminación antipánico según EN 1838
Grado de reflexión: 0 | Mínima iluminancia: 0,5 lux
2 lux para la iluminación antipánico según UNI EN 50172
Grado de reflexión: se toma en consideración
Mínima iluminancia: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

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 50 for detailed information about emergency lighting for high-ceilinged rooms.

IP 40
IP 65



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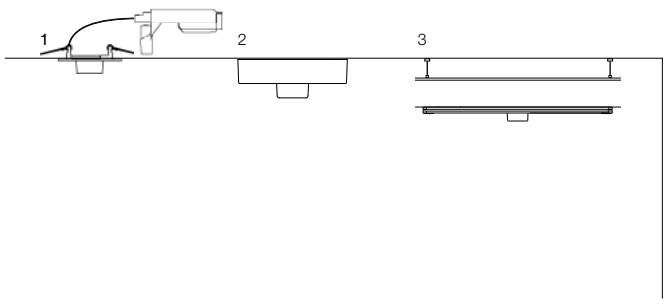
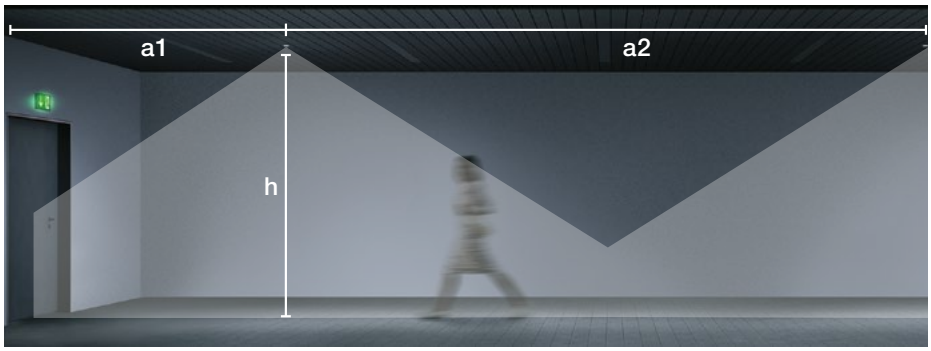


1 Recessed into ceiling
Ceiling cut-out Ø 68 (±2) mm
Intermediate ceiling height at least 125 mm
Wall thickness 1–25 mm
2 Surface-mounted and high ceilings
IP40 Hole spacing 90 mm
IP65 Hole spacing 168 x 98 mm
3 TECTON and high ceilings
Length 498 mm*
Length 248 mm**

** Trunking IP40 and swivel head 180°*
*** high ceilings*



h	a1		a2	
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	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) 145.6 x 145.6 x 34.3 mm (surface-mounted) 200 x 130 x 48.5 mm (surface-mounted IP65)
Application EN 1838	Escape route lighting

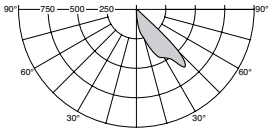
Factors of spacing table:
Minimum illuminance: 1 lx on central floor axis,
0.5 lx on half of escape route width | Escape route width: 2 m
Maintenance factor: 0.8 | Reflection factor: 0 | Uniformity: max 40 : 1
Luminous intensity distribution: cd/1000 lm

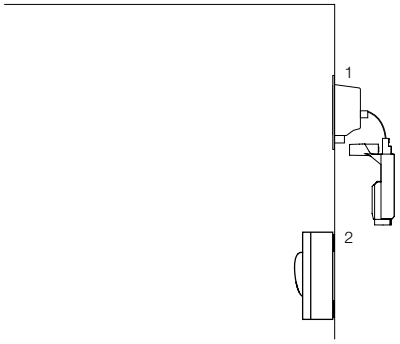
ONLITE RESCLITE wall

Maximum luminaire spacing
up to 16 m > 1 lux

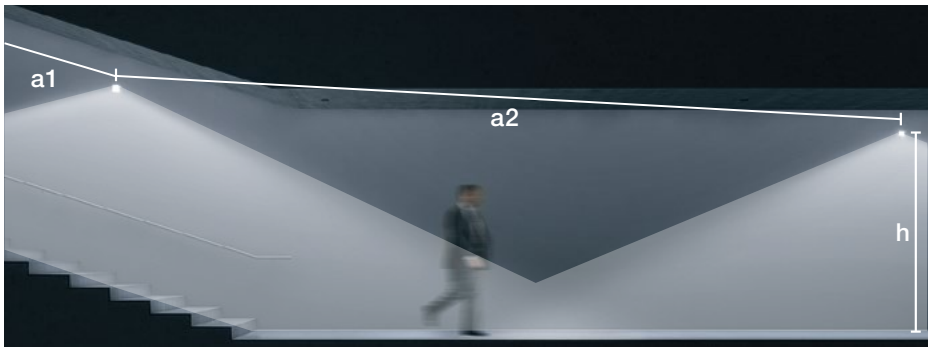
Uses the wall for safe escape route lighting
Where emergency luminaires cannot be installed on the ceiling for visual or technical reasons, for instance because rooms are very high or the ceiling design makes installation impossible, RESCLITE provides an elegant option: square LED wall luminaires with 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 16 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	a1		a2	
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	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	- / - / 5.60	- / - / 1.70	12.60 / 12.60 / 15.60	10.00 / 10.00 / 14.90
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

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	90 x 90 x 2.2 mm (recessed) 200 x 130 x 48.5 mm (surface-mounted IP65)
Application EN 1838	Escape route lighting

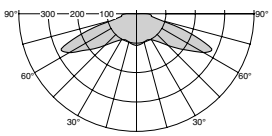
Factors of spacing table:
Minimum illuminance: 1 lx on central floor axis,
0.5 lx on half of escape route width | Escape route width: 2 m
Maintenance factor: 0.8 | Reflection factor: 0 | Uniformity: max 40 : 1
Luminous intensity distribution: cd/1000 lm

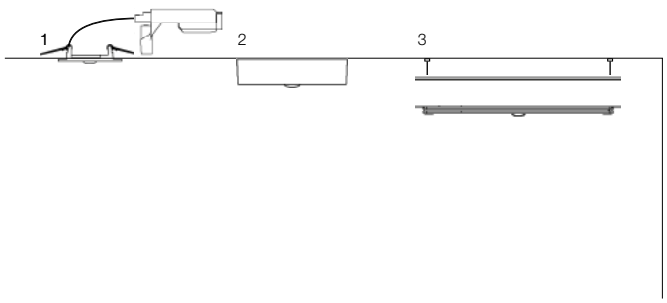
ONLITE RESCLITE antipanic

Maximum room illumination
up to 219 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 219 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 50 for detailed information about emergency lighting for high-ceilinged rooms.

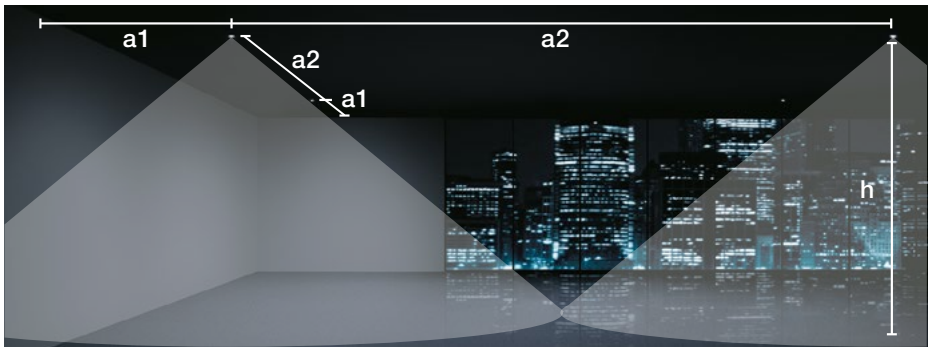
IP 40
IP 65





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
IP40 Hole spacing 90 mm
IP65 Hole spacing 168 x 98 mm
3 TECTON and high ceilings
Length 498 mm*
Length 248 mm**

** Trunking IP40*
*** high ceilings*



h	a1		a2	
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

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) 145.6 x 145.6 x 34.3 mm (surface-mounted) 200 x 130 x 48.5 mm (surface-mounted IP65)
Application EN 1838	Antipanic lighting

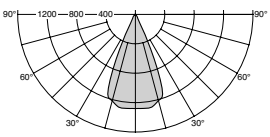
Factors of spacing table:
Minimum illuminance: 0.5 lx | Maintenance factor: 0.8
Reflection factor: 0 | Uniformity: max 40 : 1
Luminous intensity distribution: cd/1000 lm

ONLITE RESCLITE spot

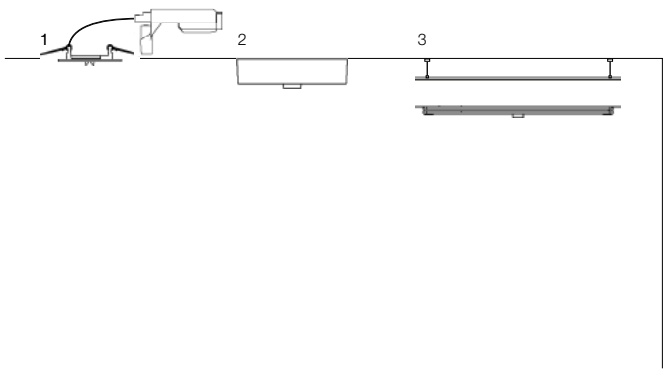
Maximum object illumination
Ø up to 3.8 m > 5 lux

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

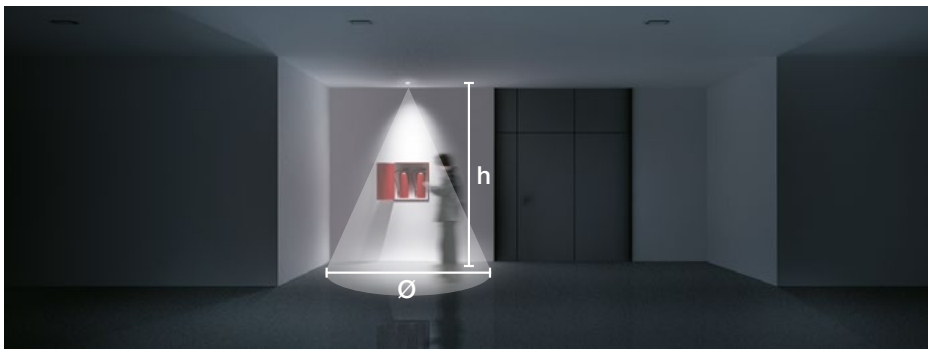


zumtobel.com/resclite



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
IP40 Hole spacing 90 mm
IP65 Hole spacing 168 x 98 mm
3 TECTON
Length 498 mm*

* *Trunking IP40*



h	Ø	
Mounting height (m)	Diameter (m)	
	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	- / - / -

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) 145.6 x 145.6 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

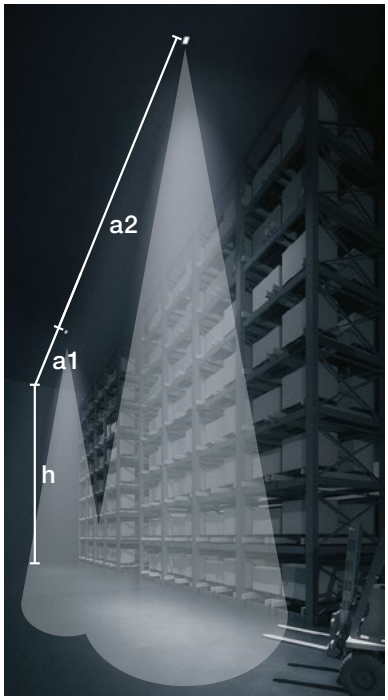
RESCLITE escape high ceilings

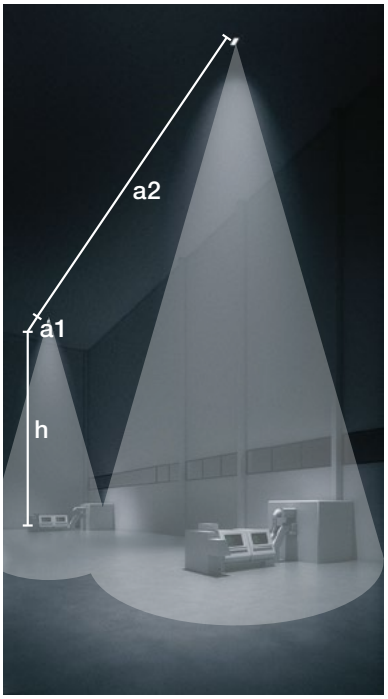
Max. luminaire spacing
up to 22 m > 1 lux

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.

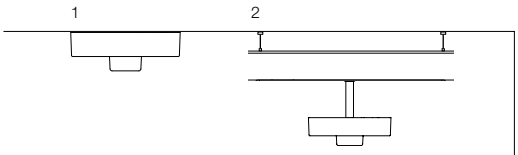
Max. room illumination
up to 290 m² > 0.5 lux

ONLITE RESCLITE antipanic high ceilings nsures 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.

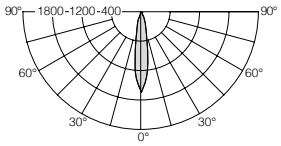


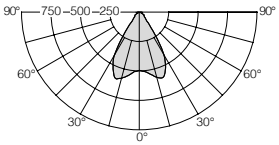


RESCLITE antipanic high ceilings



1 Ceiling-mounted high ceilings
Hole spacing 168 x 98 mm
2 TECTON high ceilings
Length 248 mm



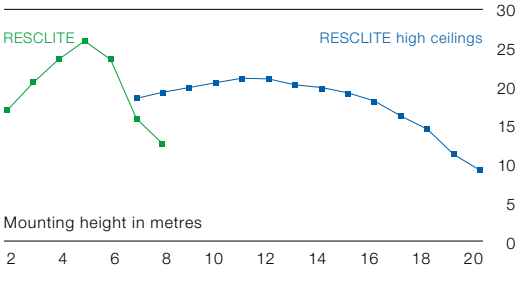


h	a1*	a2*
Mounting height (m)	wall / luminaire max. distance (m)	luminaire / luminaire max. distance (m)
	NDA, NSI, NPS	**NDA, NSI, NPS**
7.0	7.45	17.75
8.0	8.00	19.10
9.0	8.50	20.35
10.0	8.35	21.20
11.0	5.95	22.30
12.0	6.00	21.90
13.0	6.00	22.15
14.0	5.25	21.10
15.0	4.20	20.35
16.0	2.90	16.80
17.0	-	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 48,5 mm (surface-mounted IP65) 248 mm (TECTON module length)
Application EN 1838	Escape route lighting Antipanic lighting

Comparison Distance in metres



IP65

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 high performance | **RESCLITE escape** | **RESCLITE antipanic high performance** | **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 high performance | **RESCLITE escape H 180** | **RESCLITE escape** | **RESCLITE antipanic high performance** | **RESCLITE antipanic** | **RESCLITE spot**


high ceilings*

RESCLITE escape | **RESCLITE antipanic**

Aluminium

RESCLITE escape

RESCLITE antipanic

RESCLITE spot

RESCLITE escape

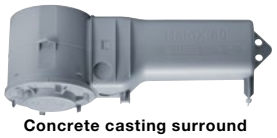
RESCLITE antipanic

RESCLITE spot

Accessories

Cover frame white

Cover frame aluminium



Concrete casting surround recessed into ceiling

RESCLITE wall

Concrete casting surround recessed into wall

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

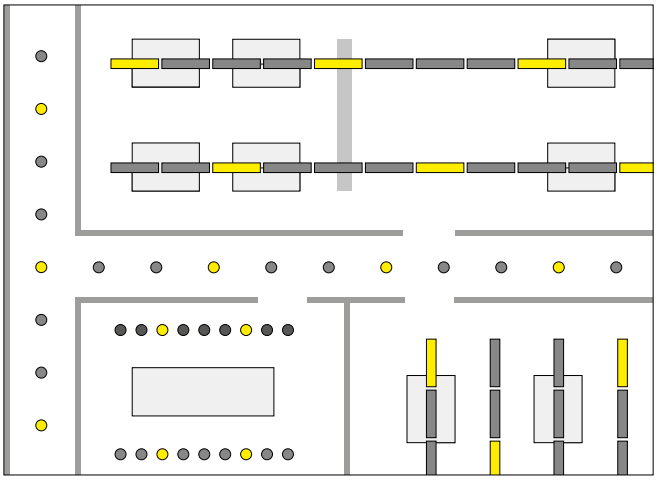
The ERI spots of the PURESIGN 150 and CROSSIGN 110 and 160 emergency sign luminaires are the perfect supplement to RESCLITE luminaires. The two LED spots with rotating lenses integrate emergency lighting into the emergency sign luminaires. Additional RESCLITE emergency luminaires are not needed with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

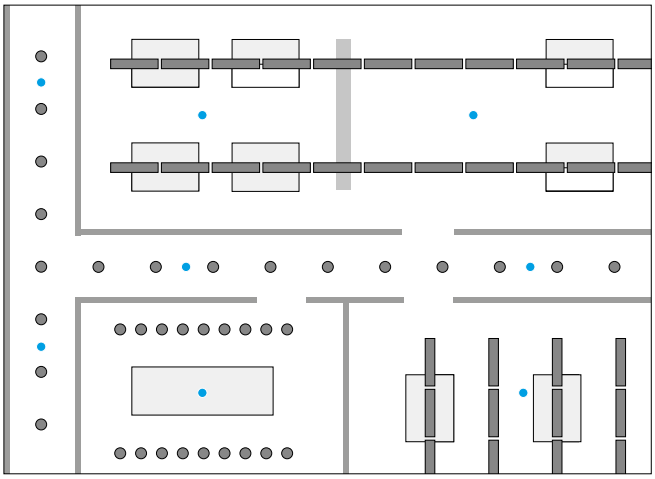
* at an emergency lighting level of 20 %



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

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

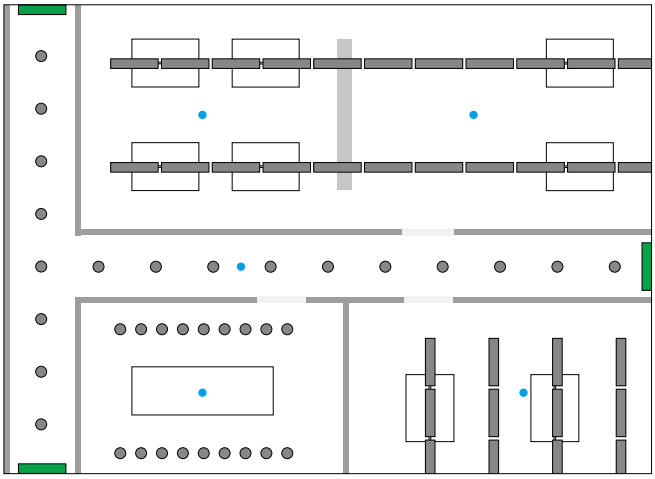
* 1.5 W in standby mode
** at an emergency lighting level of 100 %



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


ZUMTO

ONLITE
Emergency sign luminaires

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		 ERGOSIGN		
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°			 CROSSIGN 110	 COMSIGN 150	 PURESIGN 150
IP 40 **4** Protected against foreign bodies with Ø from 1 mm Protected against access with a wire **0** No protection		 ARTSIGN		

IPxx

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 emergency 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 emergency 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 m

ECOSIGN

CROSSIGN
160

SQUARESIGN
300

CROSSIGN
160

CUBESIGN
210

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

left

below

right

Individual emergency signs
ONLITE emergency 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.

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 emergency 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 emergency 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

	Recessed into ceiling	Surface-mounted on the ceiling	TECTON continuous-row system only PURESIGN 150	Recessed cord ceiling
Variety of mounting options				
COMSIGN 150				
PURESIGN 150				

The Zumtobel ONLITE emergency and emergency 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 emergency sign changes.

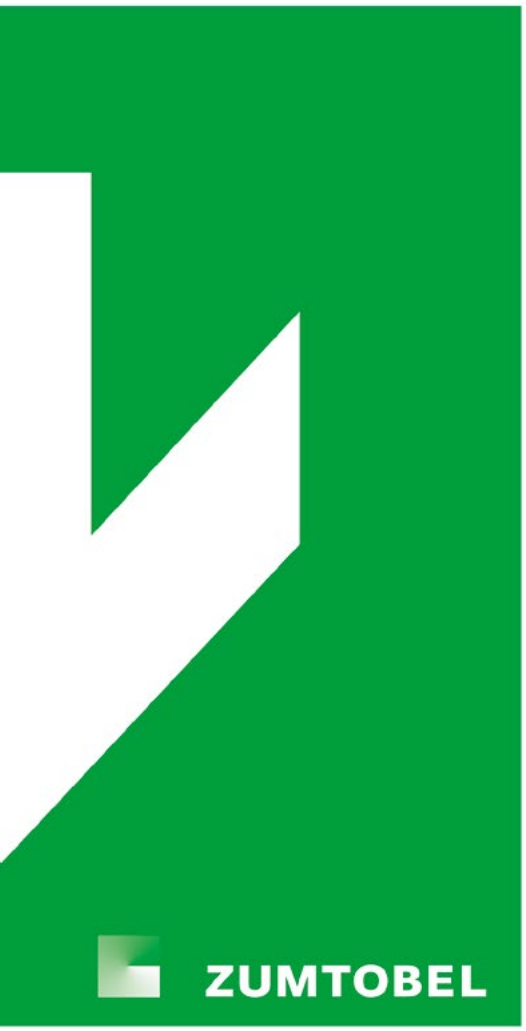
Levelling kit for easy installation
The new levelling kit means mounting luminaires is child's play: simply position the surface-mounted or recessed box at the installation location and rotate the levelling screw to open a metal component. Further fastening attaches this component to the wall or ceiling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

The LED is a point light source, and yet Zumtobel emergency 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/m² is sufficient to mark escape routes according to relevant standards. Only Germany specifies a luminance level of 200 cd/m² or 500 cd/m² in the white range. Zumtobel offers this luminance level increased by a factor of 100 for all emergency sign luminaires to ensure maximum safety.

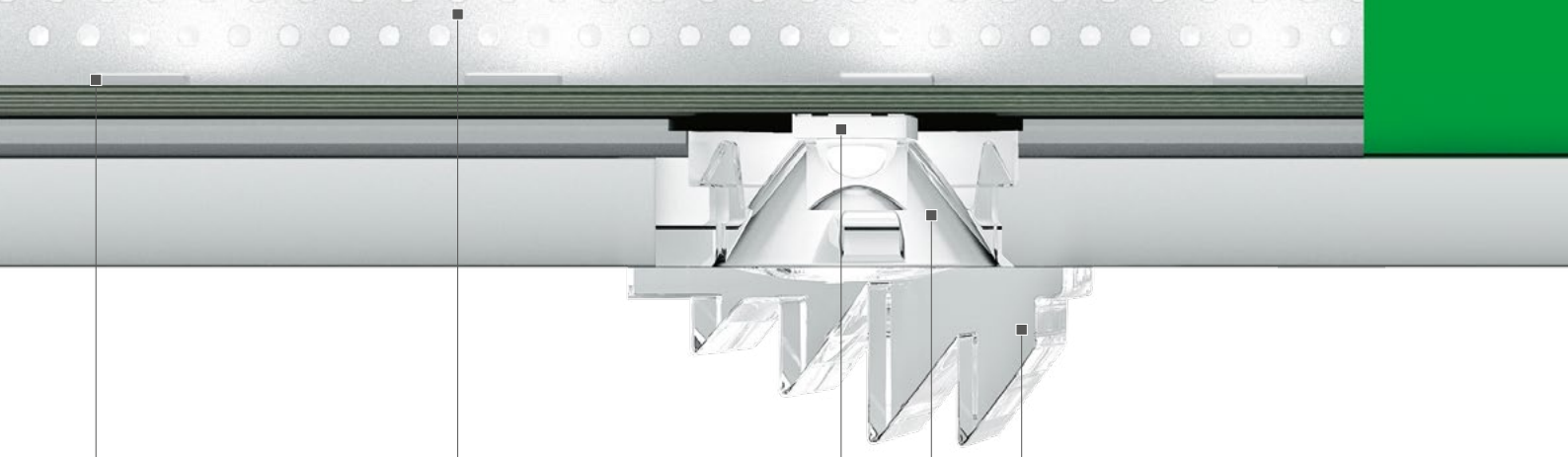
Illumination with pictogram luminance of 2 cd/m²

Illumination with pictogram luminance of 200 cd/m²

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.

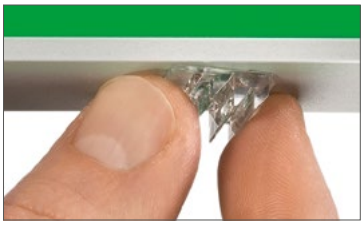
ERI spot
Two LED spots attached to the underside of the CROSSIGN 110 and 160 and the PURESIGN 150 emergency sign luminaires act as emergency lighting.

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. Emergency 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*

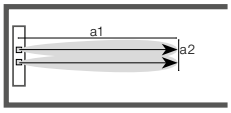
h	0.5 lx a1 / a2	1.0 lx a1 / a2	2.0 lx a1 / a2	5.0 lx a1 / a2
2.0	7.5 / 2.2	7.1 / 1.4	5.8 / 0.9	0.1 / 0.2
2.2	8.0 / 2.2	7.0 / 1.4	5.9 / 0.9	0.2 / 0.2
2.4	8.5 / 2.2	7.3 / 1.4	6.0 / 0.8	
2.6	9.0 / 2.0	7.6 / 1.4	6.2 / 0.8	
2.8	9.4 / 2.0	7.9 / 1.4	6.3 / 0.6	
3.0	9.8 / 2.0	8.1 / 1.4	6.4 / 0.2	
3.2	10.1 / 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° *

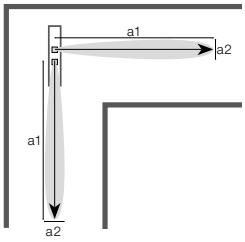
h	0.5 lx a1 / a2	1.0 lx a1 / a2	2.0 lx a1 / a2
2.0	6.70 / 2.00	5.65 / 1.30	4.50 / 0.70
2.2	7.10 / 2.00	5.75 / 1.20	4.55 / 0.40
2.4	7.40 / 1.90	6.10 / 1.10	2.80 / 0.30
2.6	7.65 / 1.80	6.20 / 1.00	0.75 / 0.70
2.8	7.90 / 1.70	6.35 / 0.90	0.60 / 0.50
3.0	8.20 / 1.60	6.40 / 0.80	0.50 / 0.40
3.2	8.30 / 1.40	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).

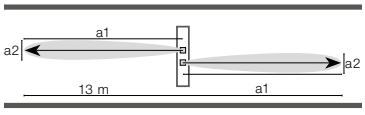
Lenses aligned in the same direction
If both lenses are aligned in the same direction, the light from the individual ERI spots is intensified. Depending on the ceiling height, up to 9 metres of escape route are illuminated.



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.



zumtobel.com/ERI-Spot

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 emergency 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.

omparison of emergency 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 %

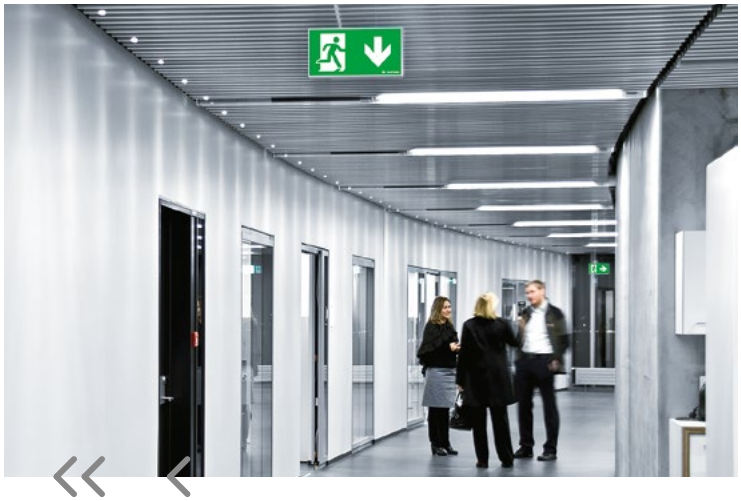
* ECOSIGN for comparison

- 31%

Amortisation example
A classic project with 100 emergency 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 emergency 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 €	-8 %
LED	8 500 €	

Electricity costs

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

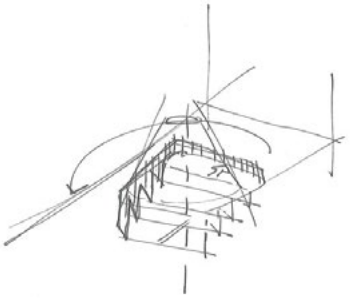
Maintenance costs

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

ONLITE is design
Design by EOOS

product design award 2013

"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.

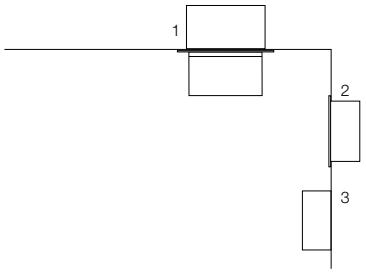
ONLITE ARTSIGN

A design sensation in its own right
ARTSIGN is the smallest emergency 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 emergency 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

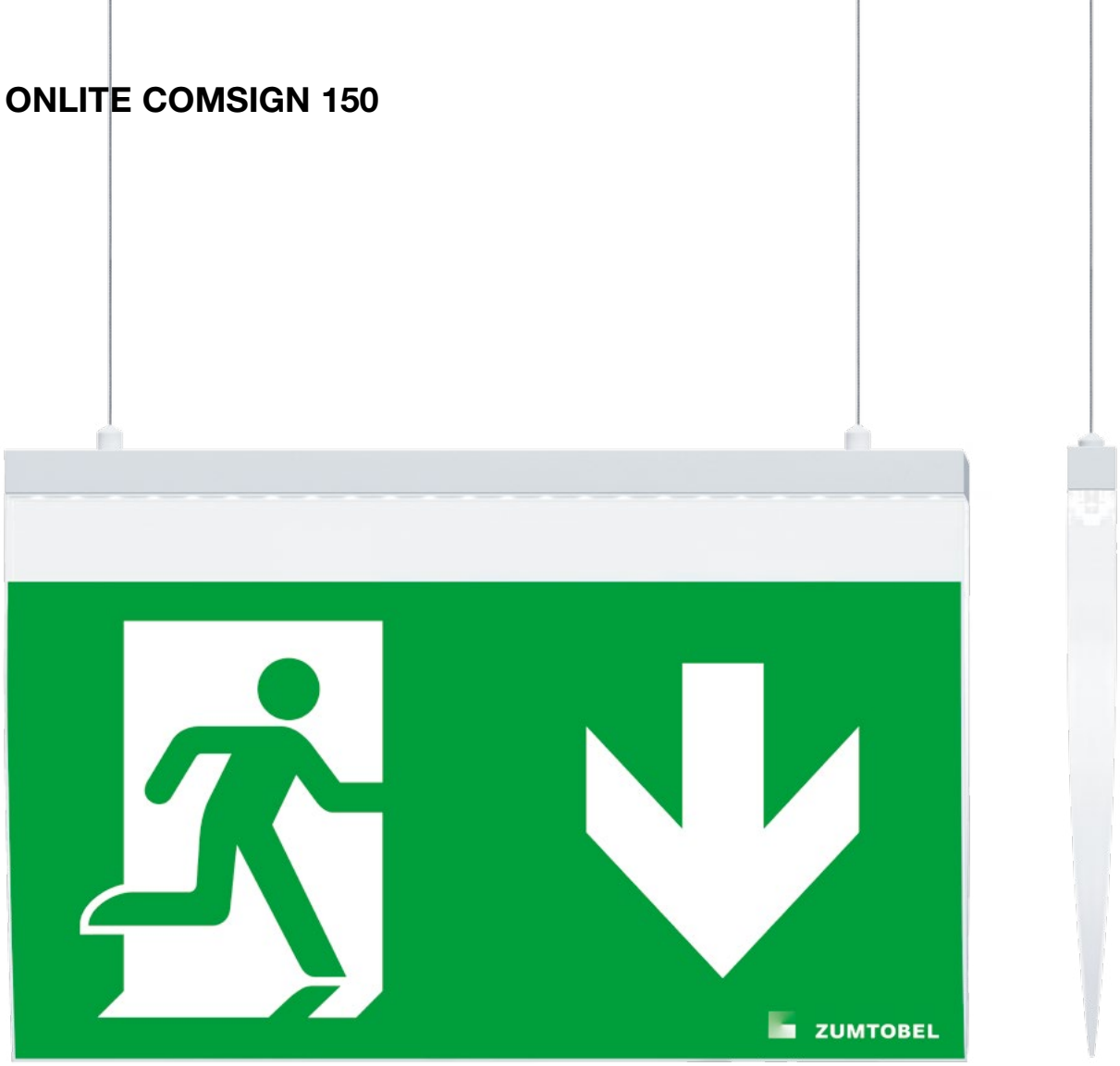
zumtobel.com/artsign



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/m² (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 pictogram W x H x D	150 x 85 x 13 mm (recessed into ceiling) 153 x 80 (recessed into wall)
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 emergency sign luminaire boasts a special talent for low operating costs.

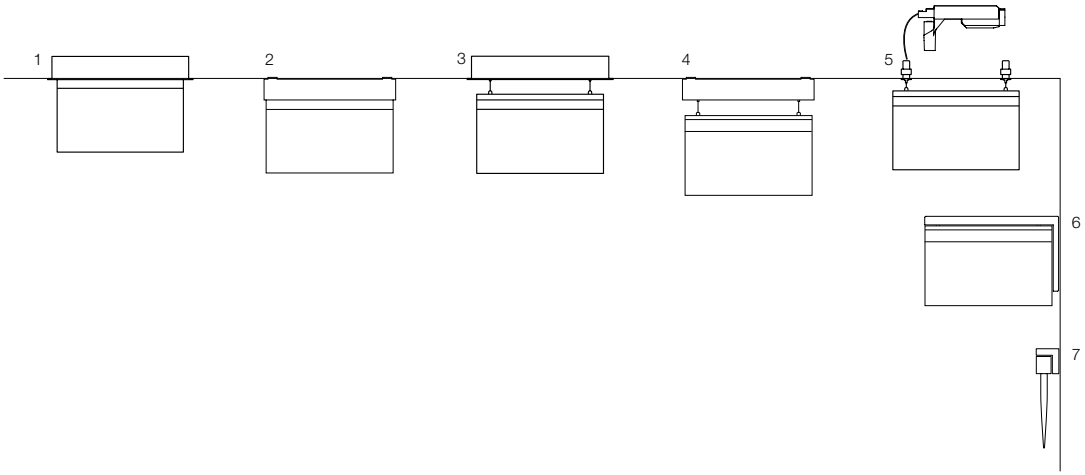
Design | EOOS

IP 42 *

30 m

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

zumtobel.com/comsign

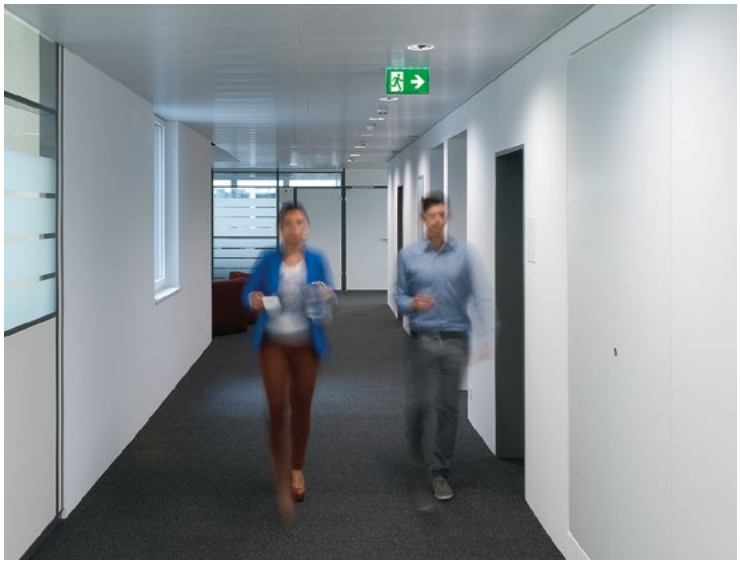


1 **Recessed into ceiling** [c]
Ceiling cut-out
330 (±2) x 76 (±2) mm
2 **Surface-mounted on ceiling** [a]
Hole spacing 270 mm
Cable feed 28/58 mm*
3 **ESI cord suspension** [c]
Ceiling cut-out
330 (±2) x 76 (±2) mm
4 **ASI cord suspension** [b]
Hole spacing 270 mm
Cable feed 28/58 mm*
5 **RSI cord suspension** [c]
Hole spacing 236 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/m² (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 pictogram W x H x D	300 x 172 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 emergency 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

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 emergency 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.

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.

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.

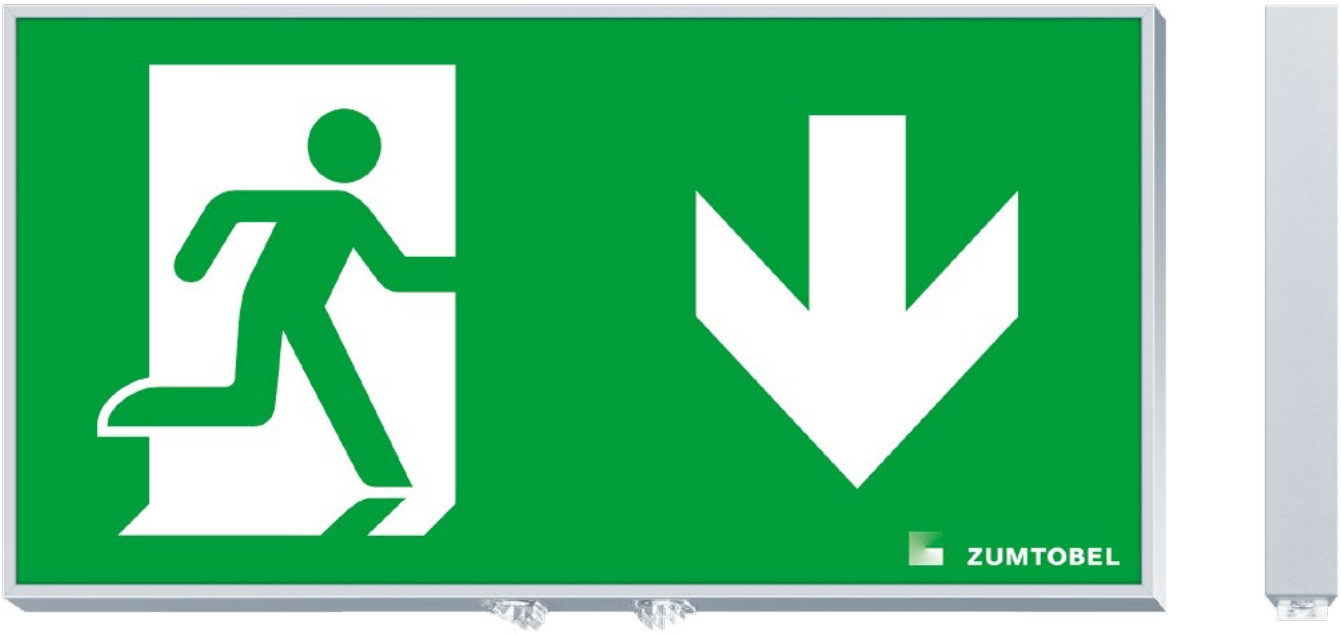
Temperature range

	Maintained mode	Non-maintained mode
NT1, NT3	+5 °C to +30 °C	+5 °C to +35 °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 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 50 000 hour service life. More light is therefore available in emergency situations compared to other emergency sign luminaires on the market, which in turn significantly increases safety.

COMSIGN 150 ESI cord suspension
Shown in original size

ONLITE PURESIGN 150



product design award 2013

Great lighting technology in a slender design
Zumtobel is collaborating with the renowned EOOS design studio to develop emergency 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.

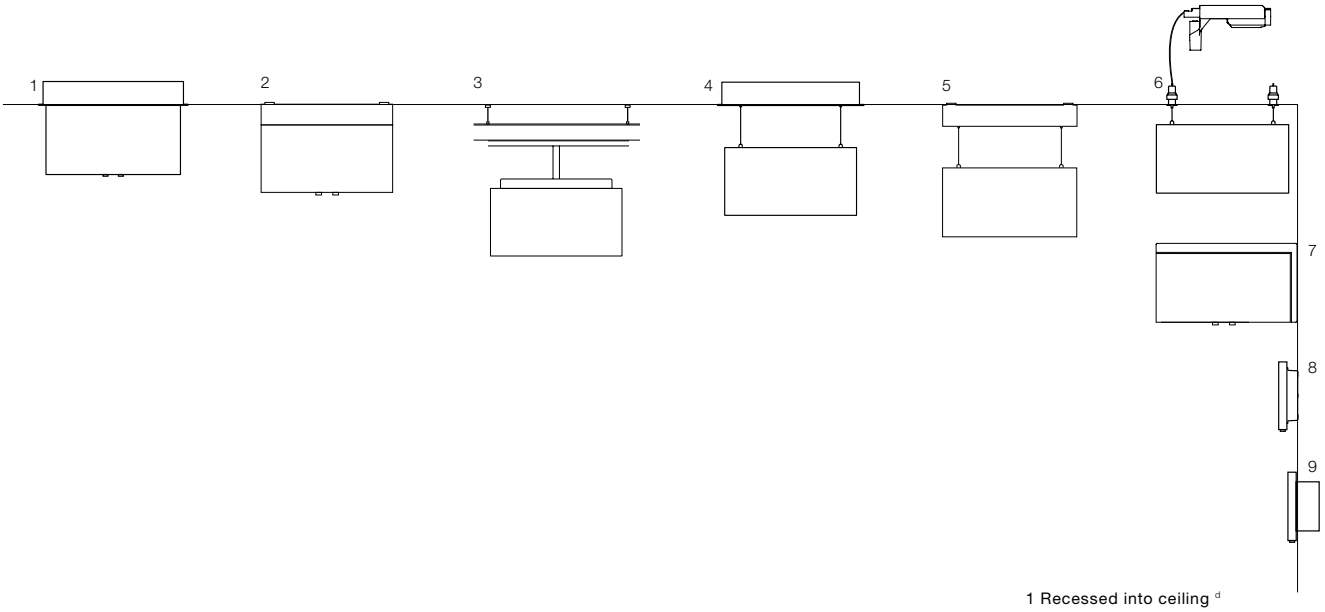
Design | EOOS

IP 42*

30 m

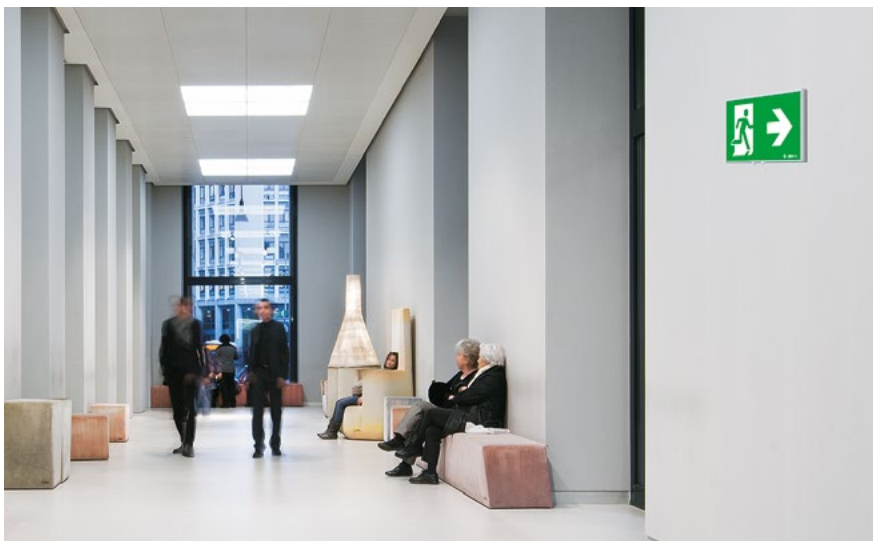
* Surface-mounted on ceiling and wall (90° and 180°)

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 498 mm
4 **ESI cord suspension** [d]
Ceiling cut-out 330 (±2) x 76 (±2) mm
5 **ASI cord suspension** [b]
Hole spacing 270 mm
Cable feed 28/58 mm*
6 **RSI cord suspension** [d]
Hole spacing 236 mm
7 **Surface-mounted on wall 90°** [a,d]
Hole spacing 28,5 mm
Cable feed above first mounting point
8 **Surface-mounted on wal 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/m² (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 pictogram 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 luminairess, ONLITE PURESIGN emergency 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

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.

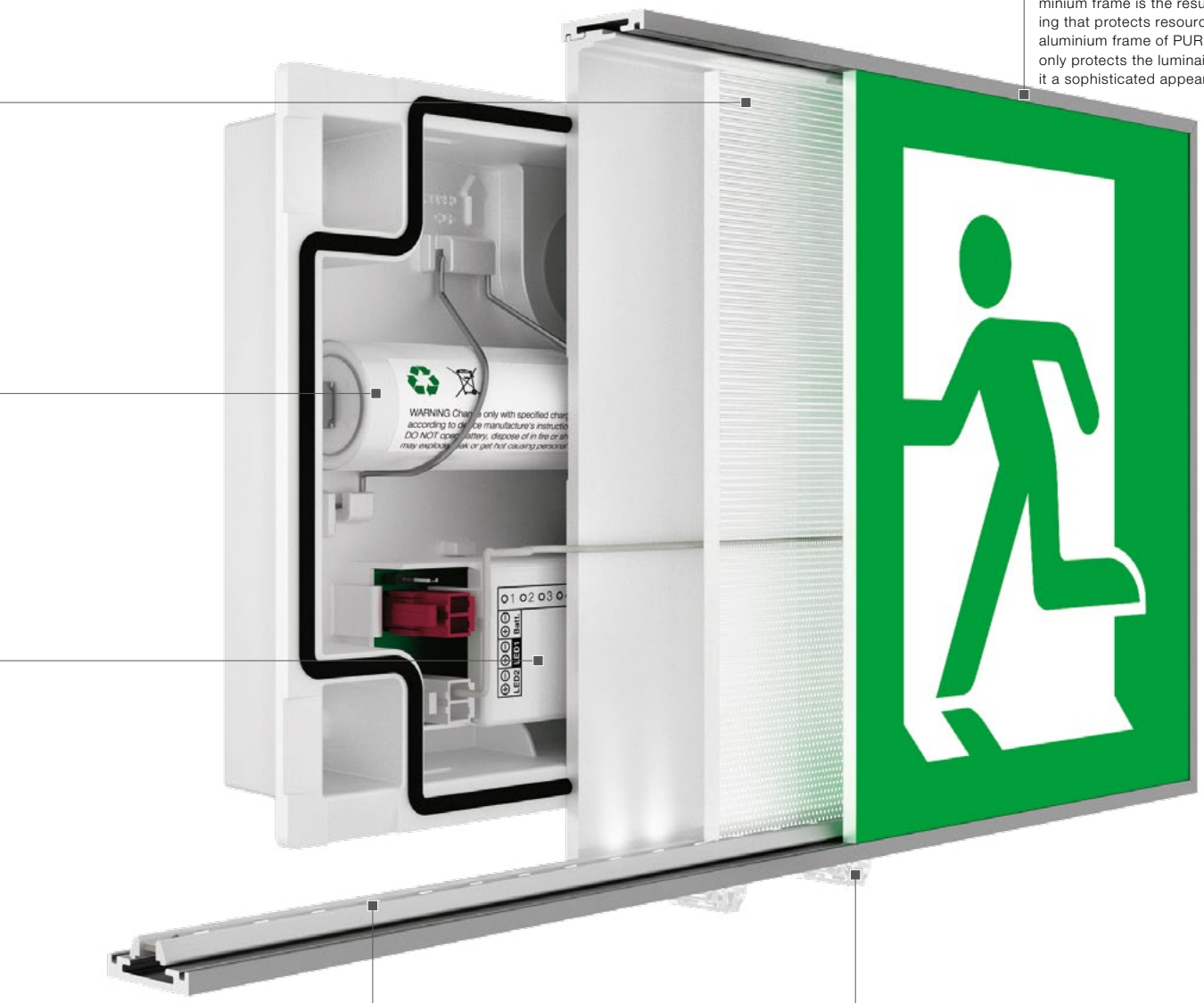
Innovative light guide panel
Light distribution in the PURESIGN 150 is adjusted by a light guide panel. A special laser engraving distributes the light uniformly across the complete luminaire to achieve perfectly illuminated pictograms. Stringent use of materials and environment-friendly powder coating 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.

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.

Temperature range

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

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 emergency 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

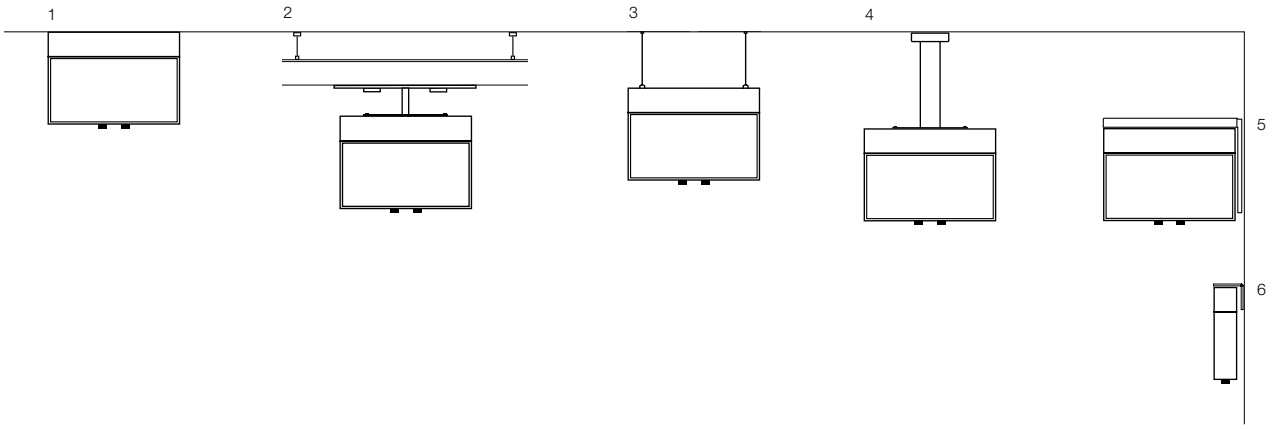
ONLITE CROSSIGN 110 and 160

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 emergency sign luminaire into an emergency luminaire as well.

IP42
22 m

IP42
IP54
32 m

Design | EOOS



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 248 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/m² (white)	LED > 500 cd/m² (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.

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 emergency 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 50000 hour service life. More light is available in emergency situations compared to other emergency sign luminaires on the market, which in turn significantly increases safety.

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 +45 °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)*

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

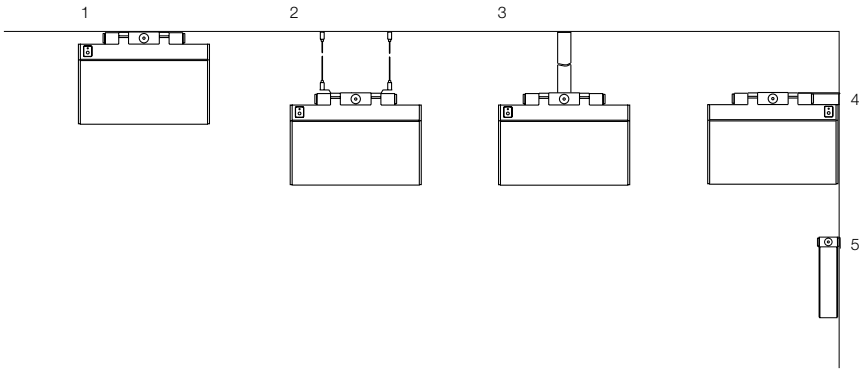
ONLITE ECOSIGN

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.

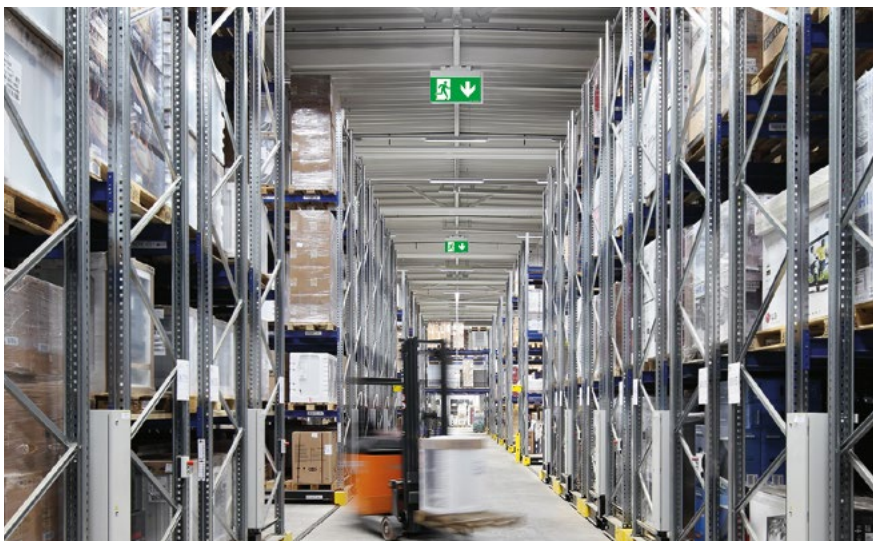
Design | Matteo Thun

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



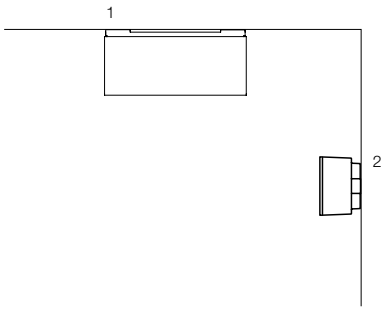
Light source	LED > 500 cd/m² (white)
Installed load	6 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP65
Housing material	Polycarbonate (PC)
Housing colour	White RAL 9016
Dimensions W x H x D	335 x 238 x 55 mm
Recognition range EN 1838	32 m

ONLITE ERGOSIGN

Frameless emergency sign luminaire
The classic among emergency 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



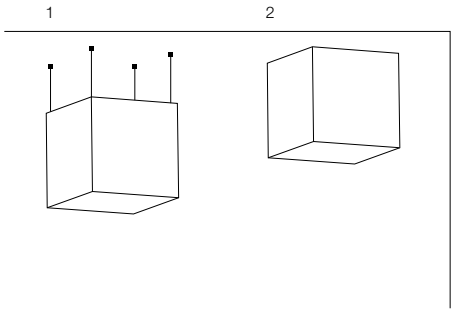
1 Surface-mounted on ceiling
Hole spacing 150 mm
Central cable feed
2 Surface-mounted on wall 180°
Hole spacing 100 mm
Central cable feed

Light source	LED > 500 cd/m² (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

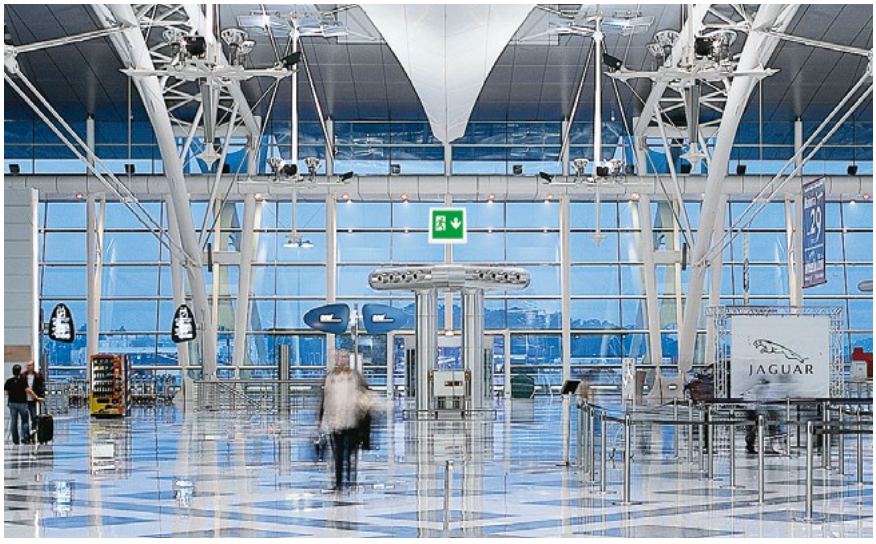
ONLITE CUBESIGN 210

Emergency sign cube for large-scale marking of escape routes
With pictograms printed on three sides, the cube-shaped escape-sign luminaire CUBESIGN 210 is the ideal solution for high halls and rooms. With a viewing range of 42 metres, it exploits the benefits of modern LED technology for a long-life and economical operation with 100 % output immediately after it is switched on.

IP 40
42 m



1 ASI cord suspension
Hole spacing 192 mm
2 Surface-mounted on ceiling
Hole spacing 192 mm
Cable feed 35/68 mm
distance from centre



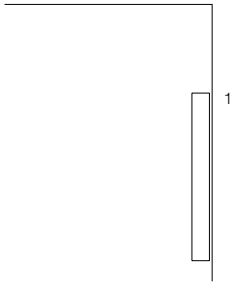
	210
Light source	LED > 500 cd/m² (white)
Installed load	11.5 W
Power supply	NT1, NT3 (DALI, separate battery) NDA (DALI, central) NSI (Powerline, central) NPS (no communication, central)
Protection type	IP40
Housing material	Opal plastic (luminaire cube) Metal (basic unit)
Housing colour	White RAL 9016
Dimensions W x H x D (mm)	250 x 250 x 250
Recognition range EN 1838	42 m

ONLITE SQUARESIGN 300+

A giant in terms of safety and design
Featuring extra IP54 protection, SQUARESIGN 300+ 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 emergency sign luminaire. Special applications include bays, shopping centres, transit areas and underground car parks. SQUARESIGN 300+ achieves a viewing range of 60 metres with evenly distributed LEDs.

IP 54

60 m



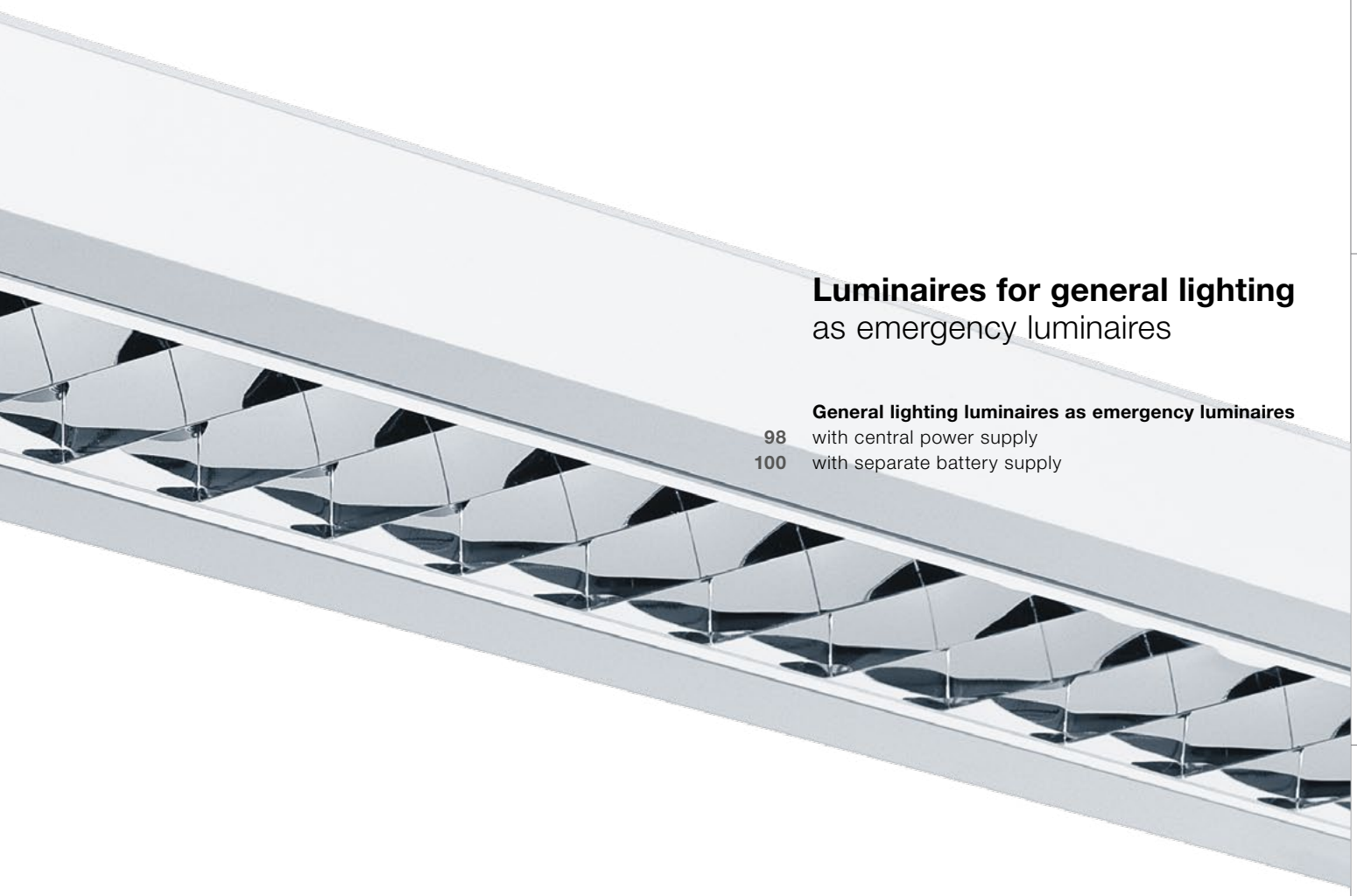
1 Surface-mounted on wall 180°
Hole spacing 220 mm
Cable feed 2 x along the axis of the left mounting points
16 mm distance from centre

	300
Light source	LED > 500 cd/m² (white)
Installed load	7 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
Recognition range EN 1838	60 m

ONLITE emergency sign luminaires
Product overview

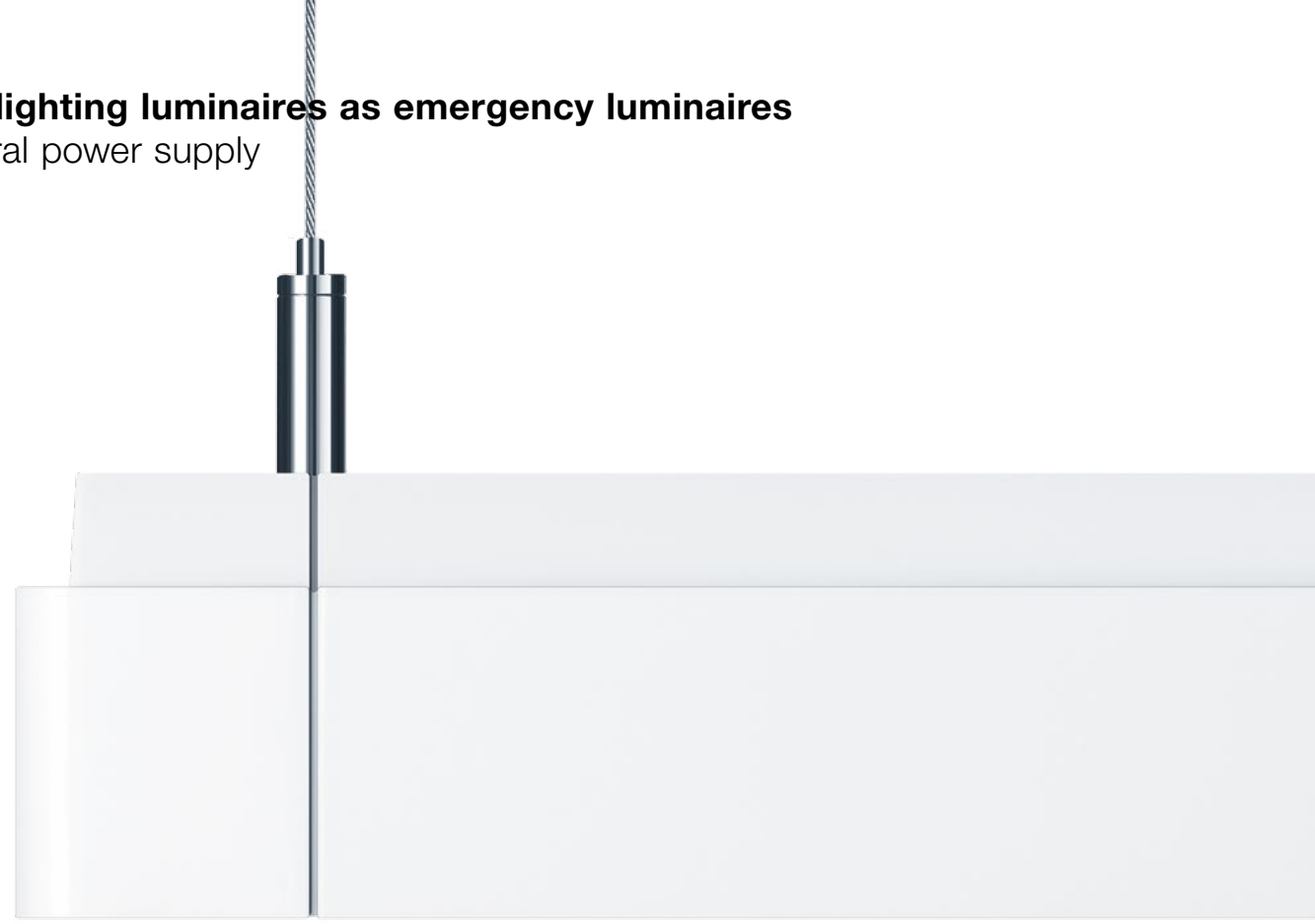
	ED Ceiling-recessed	AD Surface-mounted on ceiling	TEC TECTON continuous-row system	ESI Ceiling-recessed, cord
ARTSIGN **IP40** 15 m | non-compliant with VKF (Switzerland) 3.2 W				
COMSIGN 150 **IP42** 30 m 4.5 W				
PURESIGN 150 **IP42** 30 m 4.5 W				
CROSSIGN 110 **IP42** 22 m | non-compliant with VKF (Switzerland) 5 W **CROSSIGN 160** **IP54** 32 m 6 W				
ECOSIGN **IP65** 32 m 7 W				
ERGOSIGN **IP54** 16 m | non-compliant with VKF (Switzerland) 3 W				
CUBESIGN 210 **IP40** 42 m 11.5 W				
SQUARESIGN 300+ **IP54** 60 m 7 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
with central power supply

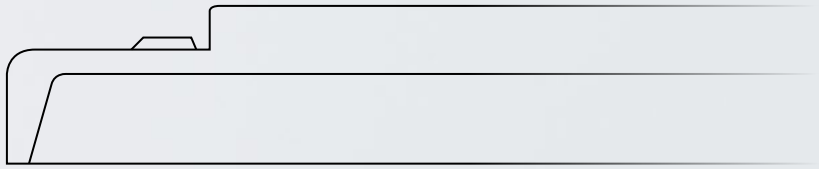


General lighting luminaires turned into emergency luminaires with one click
Nearly all Zumtobel general lighting luminaires are also available as emergency luminaires. This integration of emergency lighting into general lighting is mainly specified when higher illuminance levels are required, or when 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



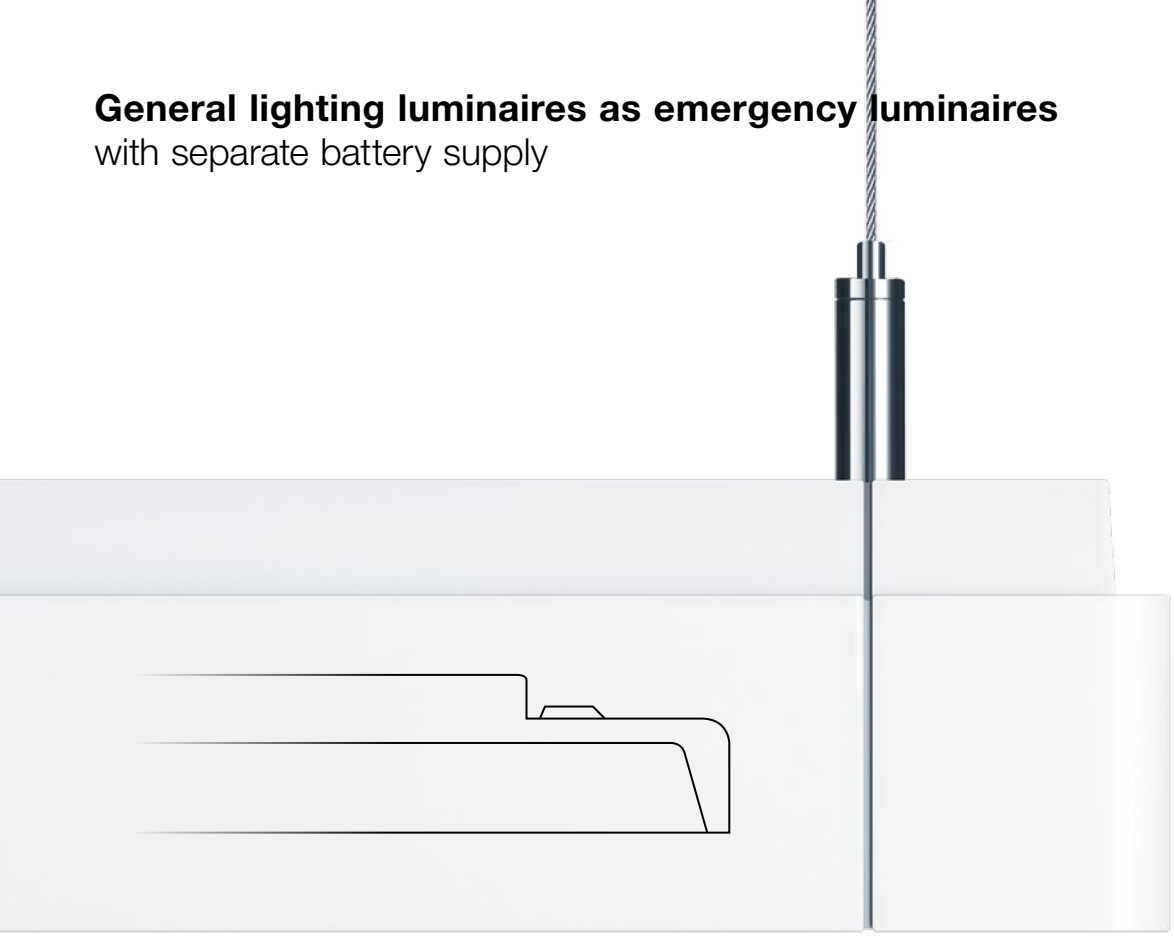
LDO luminaires
for central battery supply
General lighting luminaires with the article designation LDO (formerly LDE DO) are dimmable via DALI. DC voltage operation and use in emergency lighting systems is not possible or possible to a limited extent, depending on the luminaire.

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		
T5	6 W			
	8 W	40,0		
	13 W			
ECO T5	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
T5 FH	14 W	24,0		
	21 W		18,0	
	28 W			15,0
	35 W			11,0
T5 FQ	24 W	15,6		
	39 W			10,0
	49 W			6,7
	54 W			5,3
	80 W			4,2
T8	15 W	17,0		
	18 W	18,0		
	30 W			
	36 W	11,0		
	38 W			
	58 W		7,5	
	70 W			4,5
TC-DD	10 W			
	16 W	23,6		
	21 W	15,4		
	28 W	13,7		
	38 W			10,3
	55 W			5,9
TC-SEL	7 W			
	9 W	27,6		
	11 W	31,0		
TC-DEL	10 W			
	13 W	25,6		
	18 W	17,0		
	26 W	14,4		
TC-TEL [1]	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			
T5c	22 W	16,9		
	40 W		7,4	
	55 W		5,1	
TC-F	18 W	18,0		
	24 W		21,0	
	36 W		13,0	
TC-L	18 W	17,4		
	24 W		17,0	
	36 W		12,0	
	40 W		8,8	
	55 W			5,4
TC-R	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

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

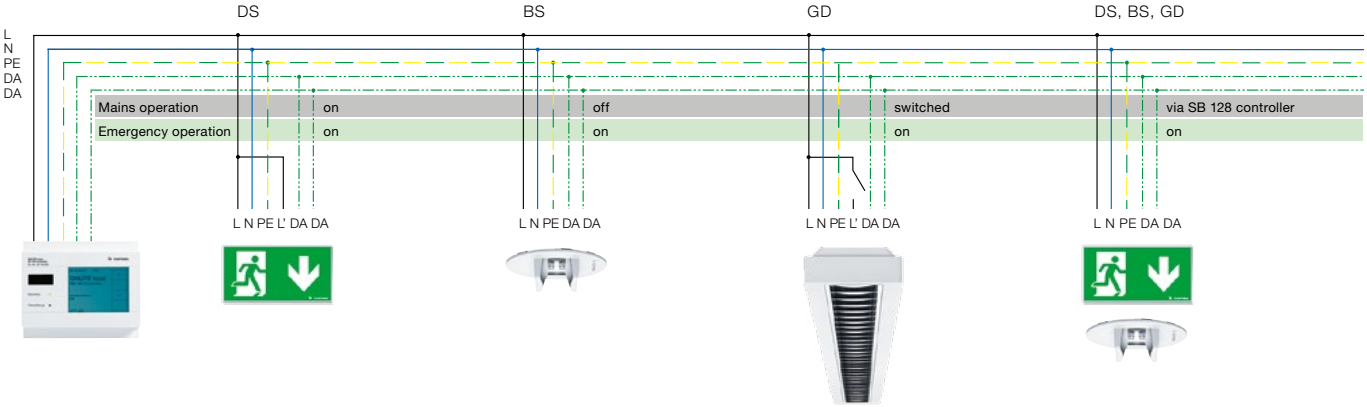
NSI Central battery and communication via Powerline
NDA Central battery and communication via DALI
NPS Central battery, no communication

ONLITE central CPS

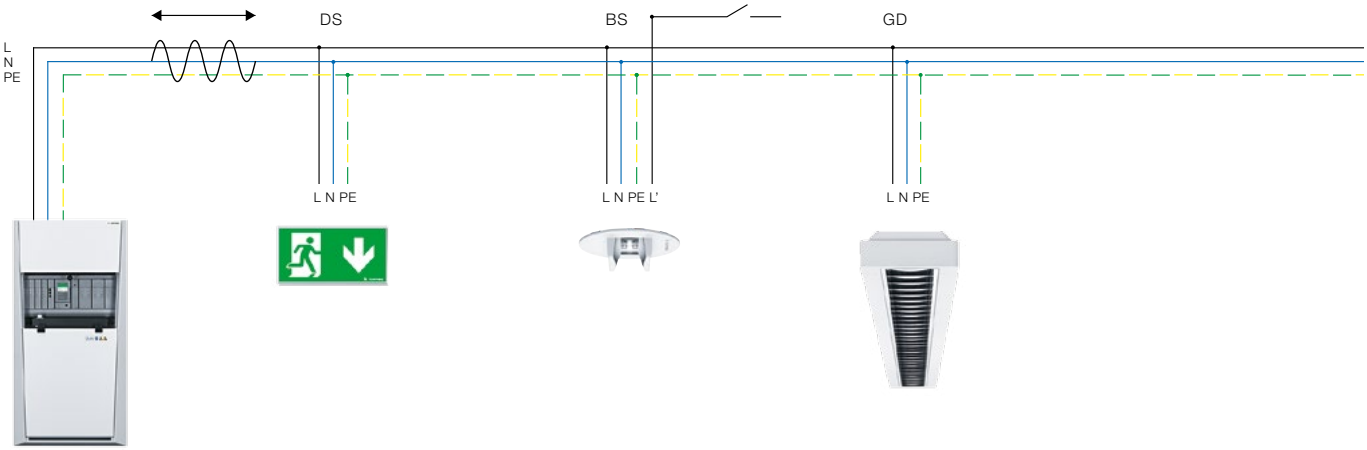
Central-battery supply

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

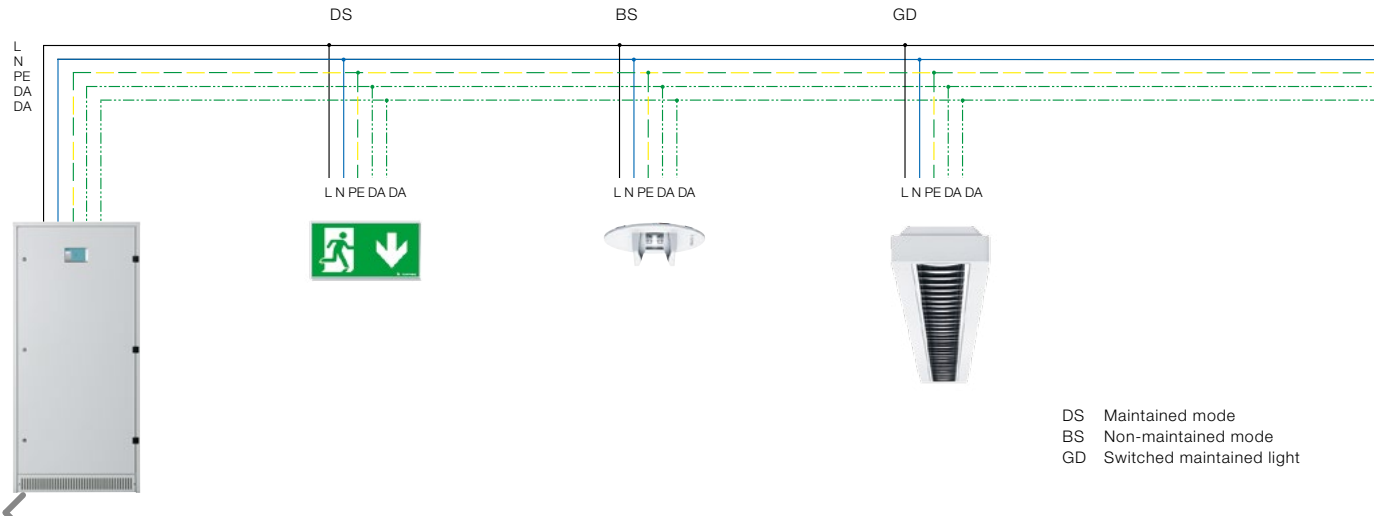
Supply by separate battery and ballast (NTx)



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

Stand alone autotest

ONLITE local SB 128 controller

ONLITE central eBox

ONLITE central CPS

LUXMATE LITENET / PROFESSIONAL

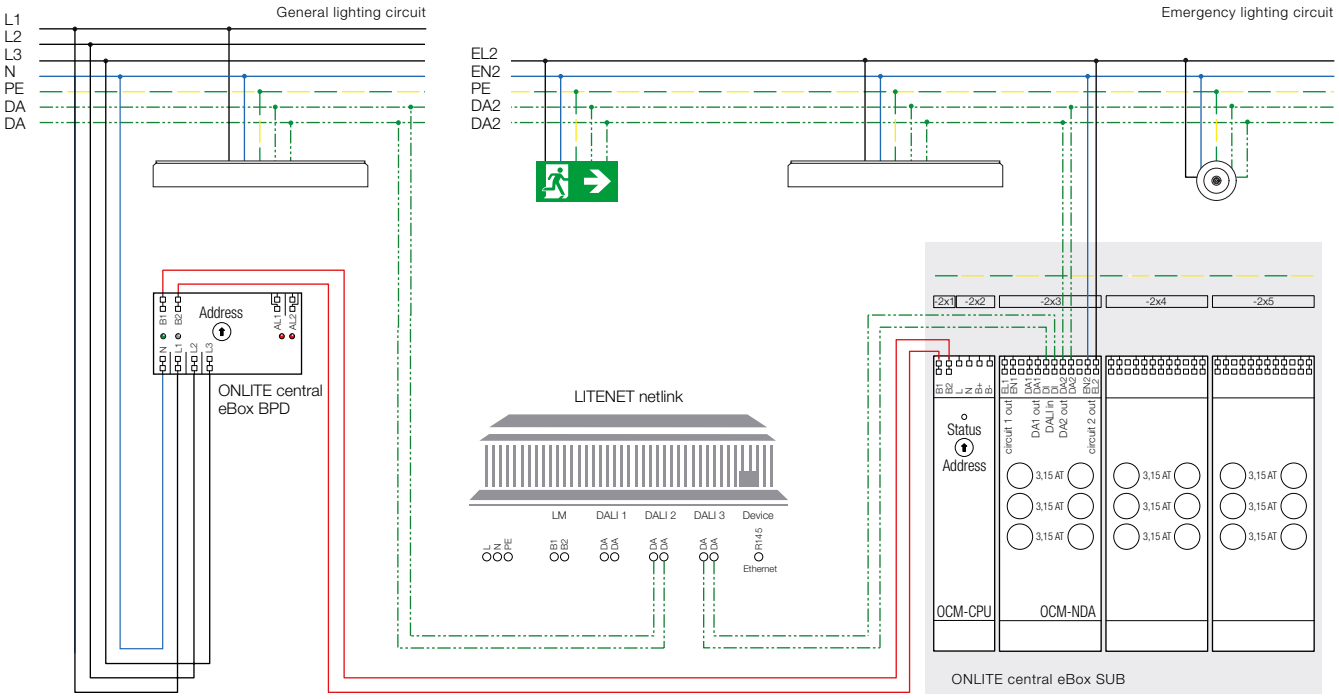
General luminaires as emergency luminaires						
	LDE	–	– [1]	o [2]	•	•
	LDE TW	–	– [1]	o [2]	•	o [4]
	LDO	–	–	o [2, 3]	o [3]	•
Emergency sign and emergency luminaires						
	NTx	•	•	–	–	• [5]
	NDA	–	– [1]	•	•	• [6]
	NPS	–	–	• [2]	• [2]	o [7]
	NSI	–	–	•	–	o [8]

- • fully compatible, therefore fully functional
- o not fully compatible, but functional
- – not compatible, does not work

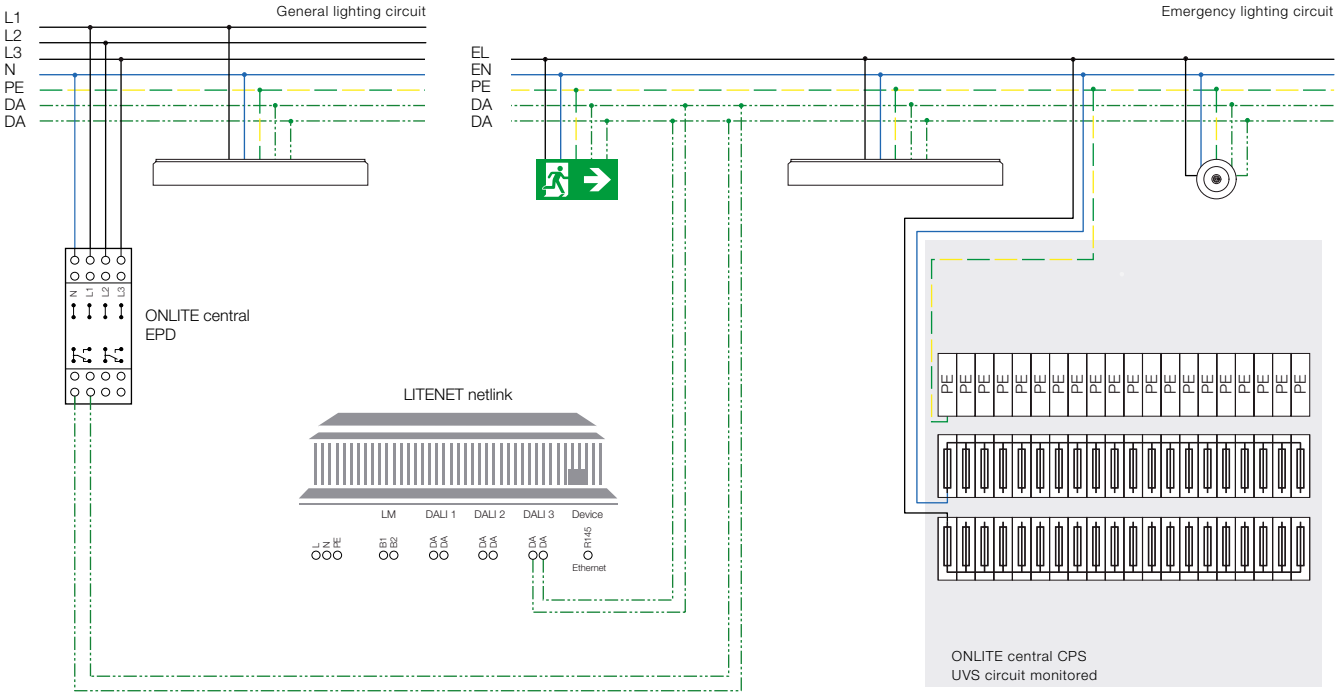
[1] Only with compatible converters and separate NT1 or NT3 battery
[2] Circuit monitoring only; mixed operation with separate-battery and circuit monitoring is not possible via a controller
[3] Dimming not permitted in DC mode
[4] Only possible with Tunable White luminaires controlled according to DALI 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



Original size

ONLITE local
Self contained emergency lighting system

ONLITE local
Self contained emergency lighting system

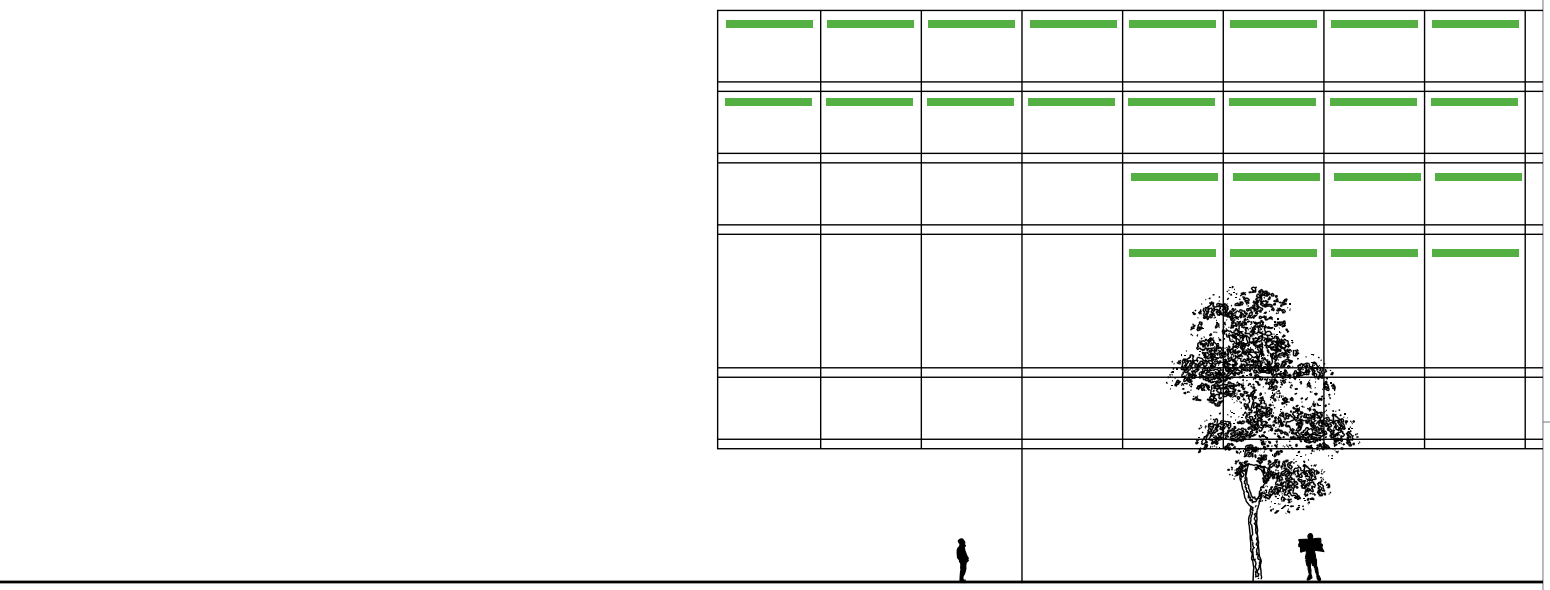
Self contained emergency lighting systems have one feature in common - the battery fitted into every luminaire. In emergency mode, this supplies the light source with power in order to prevent panic reactions, ensure the workplace is evacuated safely and show the escape route. Economic efficiency and 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

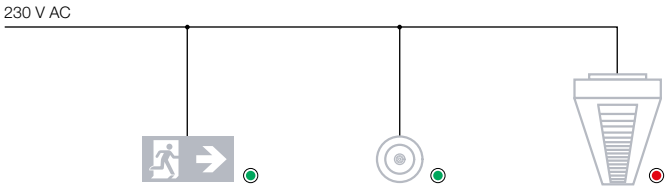
- Minimal expenditure on testing and maintenance
- Automatic testing of system
- Automatic generation of test logs

ONLITE local
Auto Test and Control Test in comparision

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

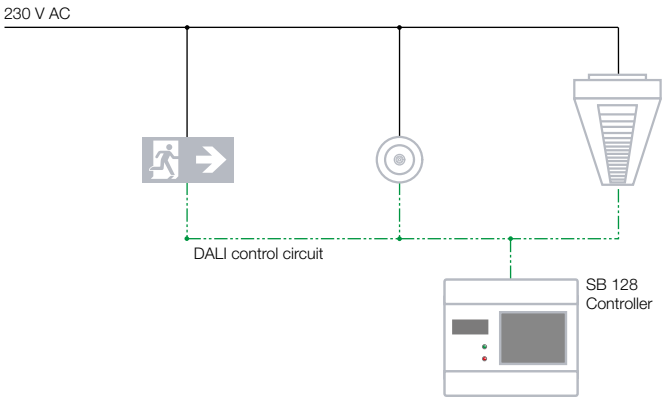
- Easy installation
- No control line

- 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

Emergency sign and emergency luminaires with automated test cycles

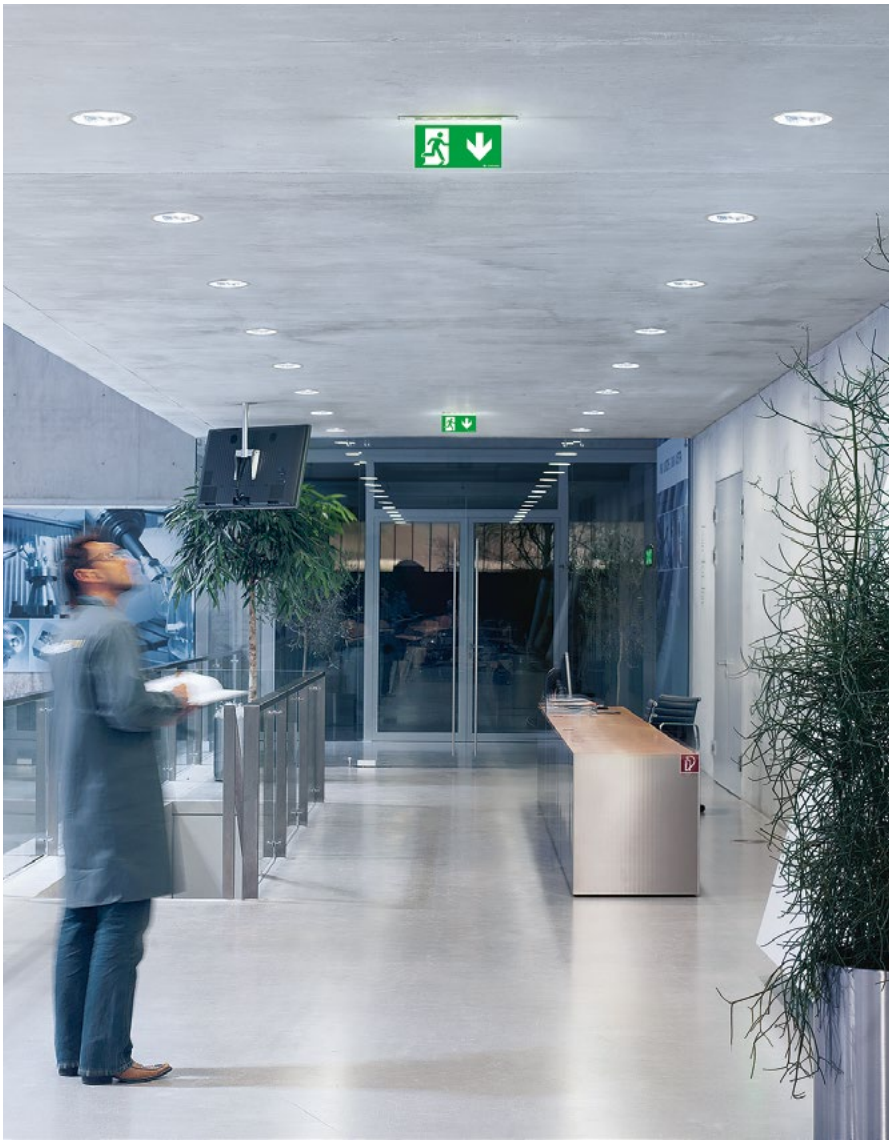
Self contained NT luminaires ensure a high level of safety: they run a weekly function test and an annual system test automatically. This reduces expenditure on testing to a weekly inspection round during which the LED status indication is noted and recorded in the test logbook. If required, testing 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

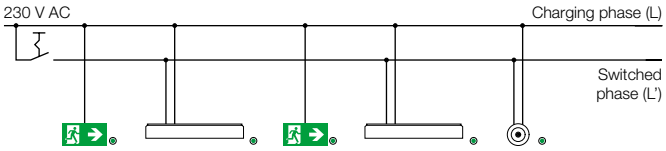
Benefits

- 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

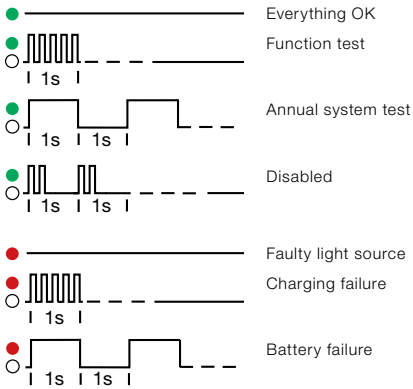
Wiring the emergency sign luminaires and emergency luminaires is confined to connection to the mains supply. The luminaire must be connected to an unswitched phase.

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

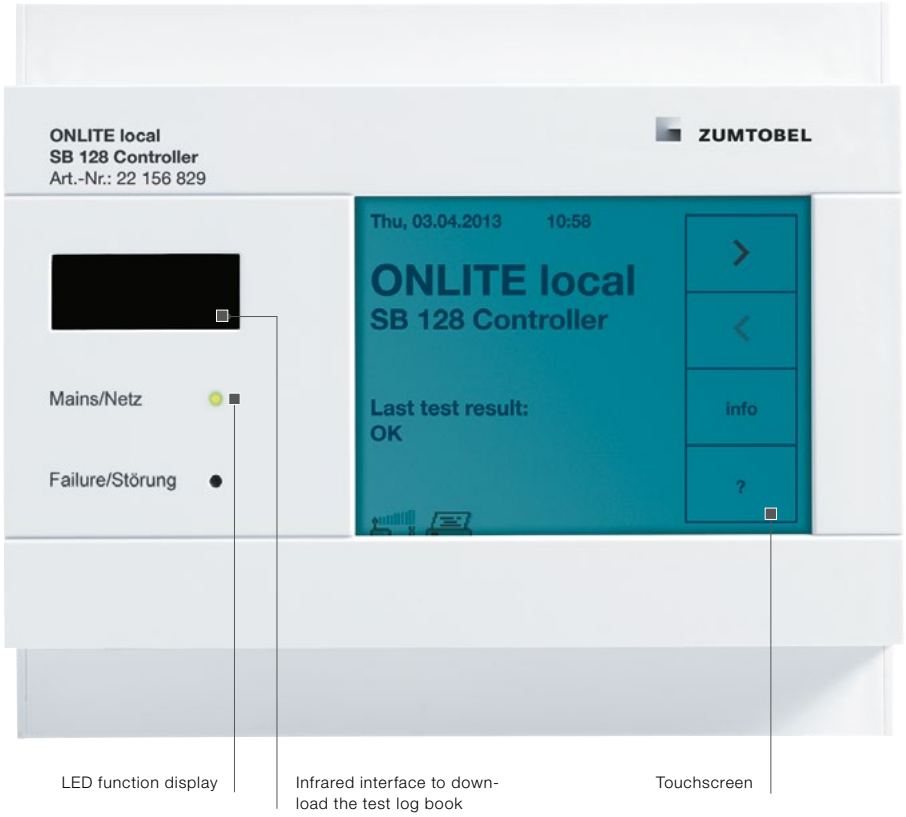
As soon as the luminaire has been connected to the mains supply, the battery is charged. Once the battery is fully charged, a function test lasting roughly 30 seconds is run automatically. The luminaire then switches back to normal mode. Connection to the mains supply initialises the timer: it starts 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



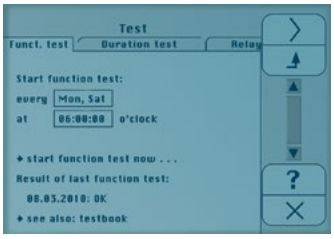
Controlling an emergency lighting system is much more convenient and safe if it is networked via a DALI control line and an SB 128 Controller is connected. The status of all the luminaires is displayed on the controller, all notifications such as faulty light sources or battery malfunctions are captured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

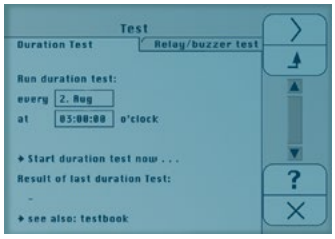
Easy operation
- Very easy commissioning and addressing of the entire emergency lighting installation – requires just one person
- Straightforward touch-screen operation
- Clearly laid-out, logical menu prompting
- Can monitor 128 luminaires, can be expanded to take 256 luminaires by fitting extenders

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

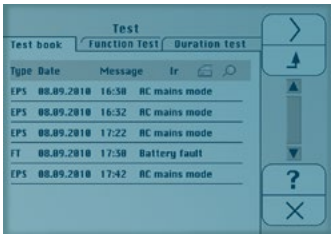
High level of functionality
- Display of all luminaires, configuration with description and addressing
- Mode can be selected individually for every ONLITE luminaire
- User-programmable signalling contacts and audible failure notification
- Installation can be disabled to allow servicing work

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.



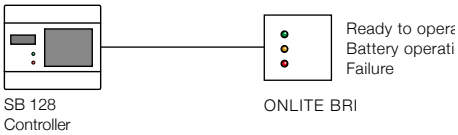


Electronic test logbook
All function and annual system tests are logged, recorded and stored in the electronic test logbook of the SB 128 Controller for at least three years. The test logbook can be read out at any time by using an infrared or RS-232-interface.



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

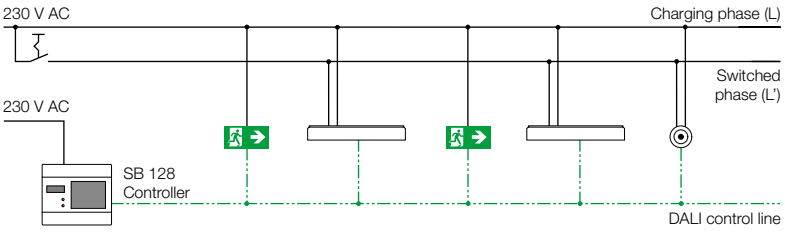
- Central control, configuring and monitoring of emergency lighting system
- User-programmable test cycles
- Fully automatic checking of luminaires
- Automatic documentation of test results
- Test logs are stored for at least three years
- Easy readout of test logbook via infrared interface
- Remote 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 cyclesn
- 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.

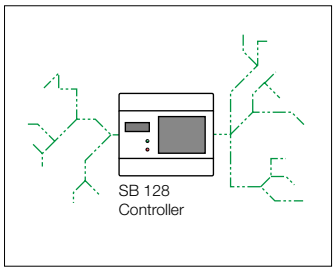
System with expandability

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 emergency sign and emergency luminaires.

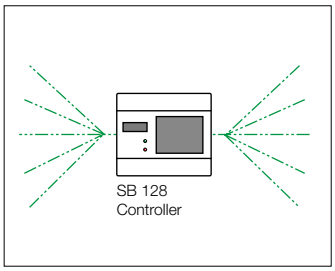
Control Test
Installation and commissioning

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.

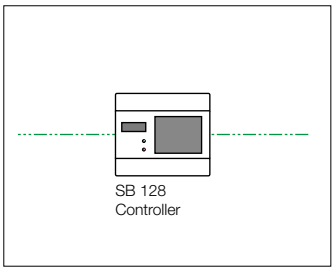
Bus topologies
The cable for the DALI control line can be laid as required. All types of tree, star and linear topologies are possible. A ring topology is not permitted.



Tree topology



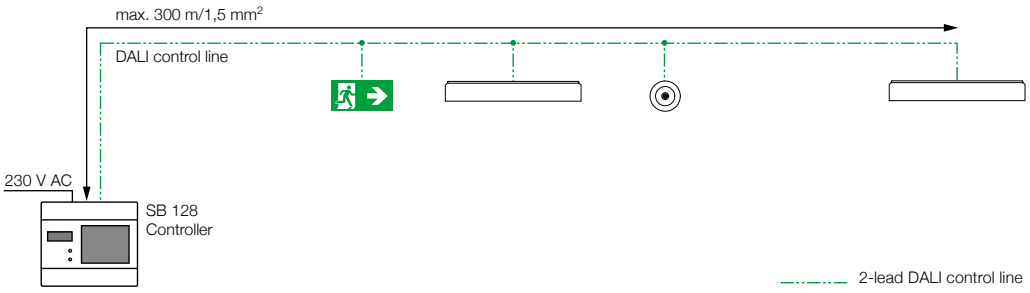
Star topology



Linear topology

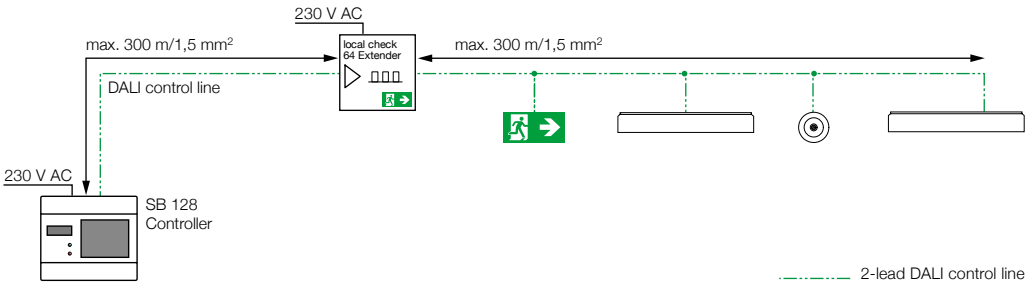
DALI-adressering
Per DALI-kring kunnen volgens de DALI-standaard maximaal 64 adressen worden toegekend. Zodoende kunnen tot 64 armaturen aan een kring van de SB 128 controller worden aangesloten (er zijn tot 4 kringen beschikbaar). De DALI-voeding is in de controller geïntegreerd. De adressering van 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.

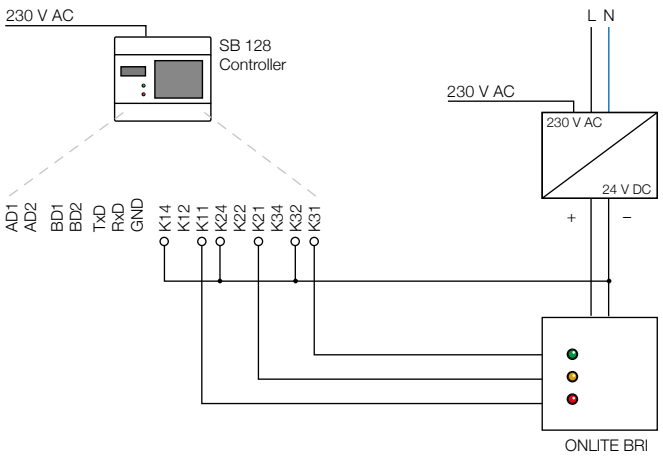


Cross-sectional area	1.5 mm²	1.0 mm²	0.75 mm²	0.5 mm²
Line length	300 m	200 m	150 m	100 m

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.

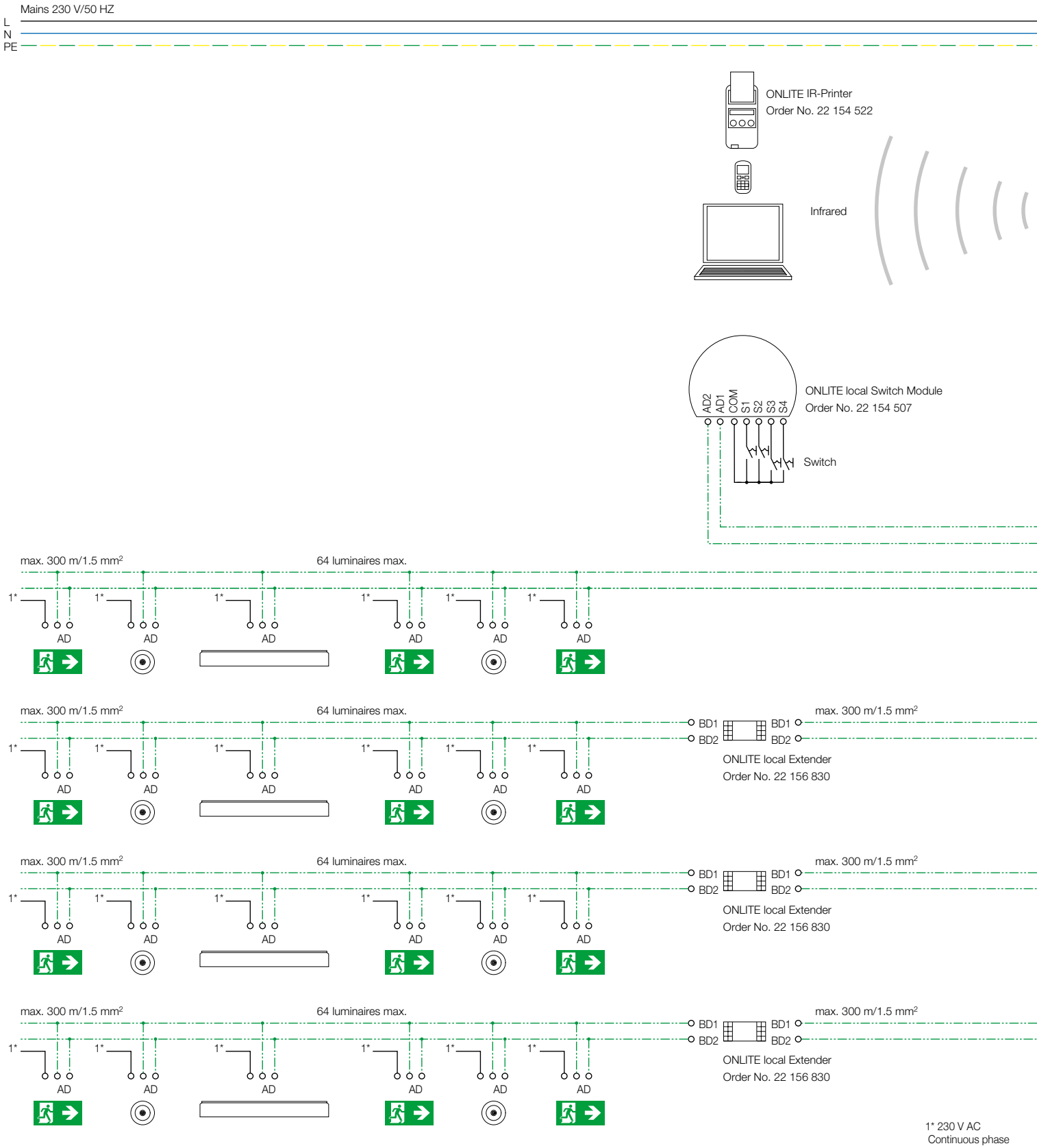


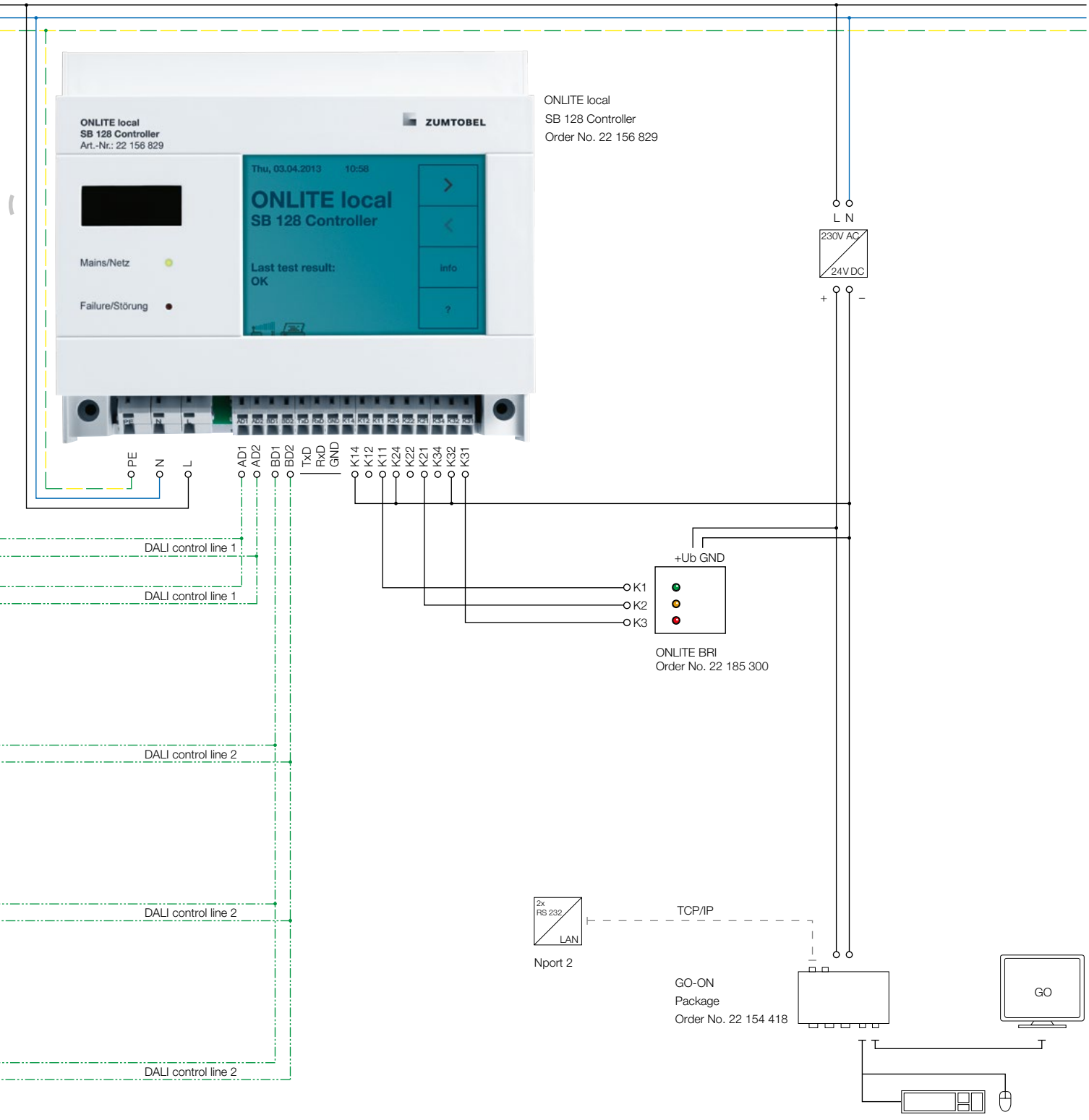
Remote indication
The SB 128 Controller has three potential-free contacts that can be used to indicate emergency lighting status remotely.
An external power supply is required in order to power the ONLITE BRI.



Control Test system topology

System overview

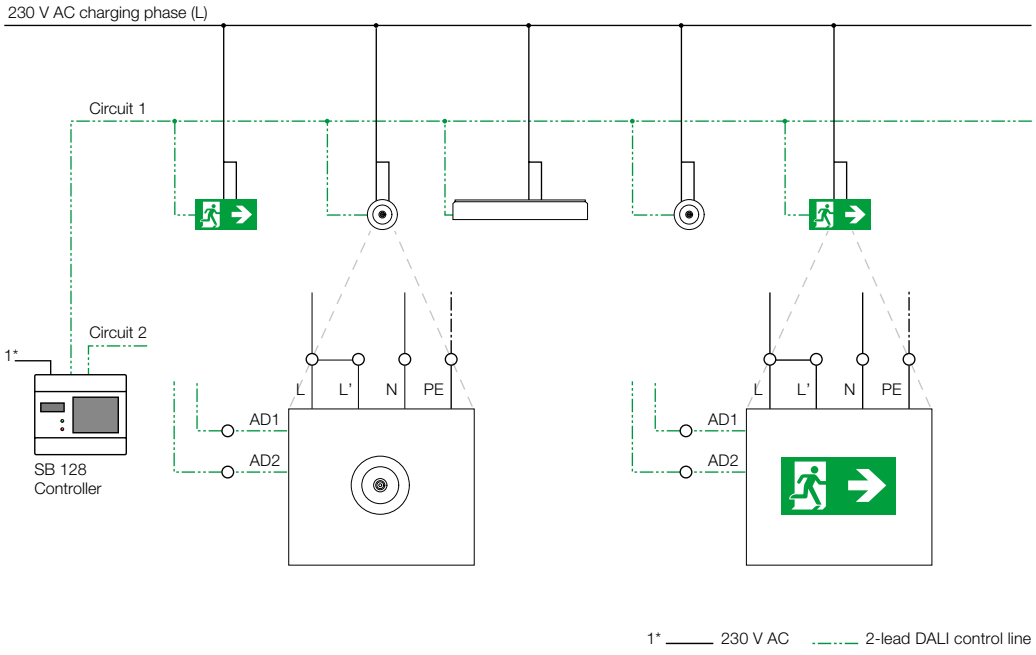



ONLITE local
SB 128 Controller
Art.-Nr.: 22 156 829
ZUMTOBEL
Thu, 03.04.2013 10:58
ONLITE local
SB 128 Controller
Last test result:
OK
info
Mains/Netz
Failure/Störung
ONLITE local
SB 128 Controller
Order No. 22 156 829
L N
230V AC
24V DC
+ –
PE N L
AD1 AD2 BD1 BD2 TxD RxD GND
K14 K12 K11 K24 K22 K21 K34 K32 K31
DALI control line 1
DALI control line 1
DALI control line 2
DALI control line 2
DALI control line 2
+Ub GND
K1
K2
K3
ONLITE BRI
Order No. 22 185 300
2x RS 232
LAN
Nport 2
TCP/IP
GO-ON
Package
Order No. 22 154 418
GO

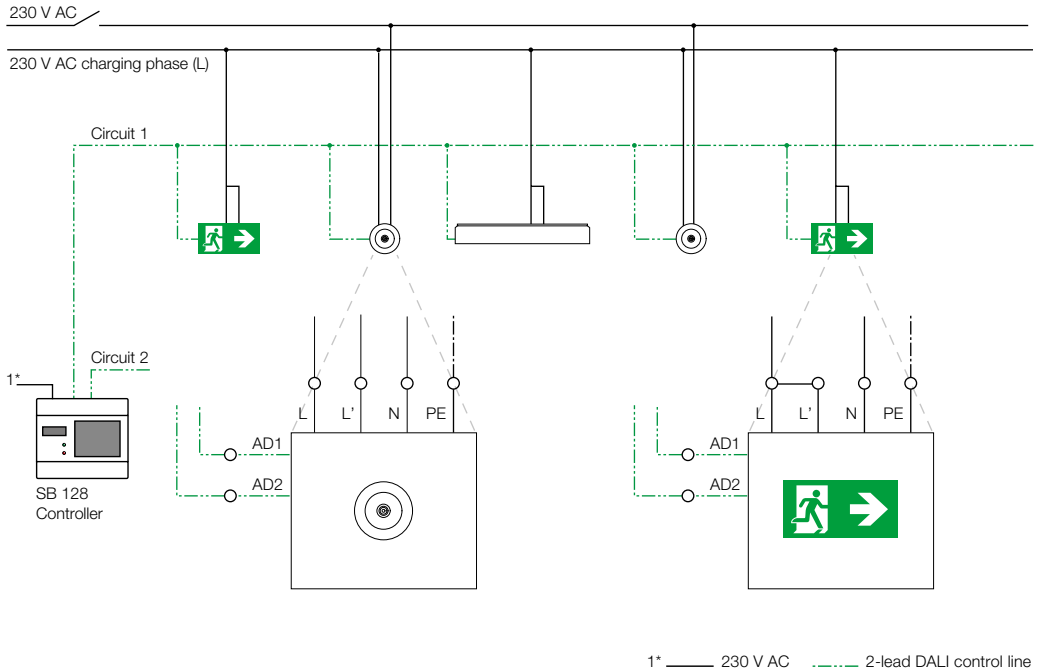
Control Test system topology
Modes

The SB 128 Controller allows the mode of every emergency and emergency 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 modeg
The mode is configured separately for every luminaire by making the appropriate adjustment on the SB 128 Controller.

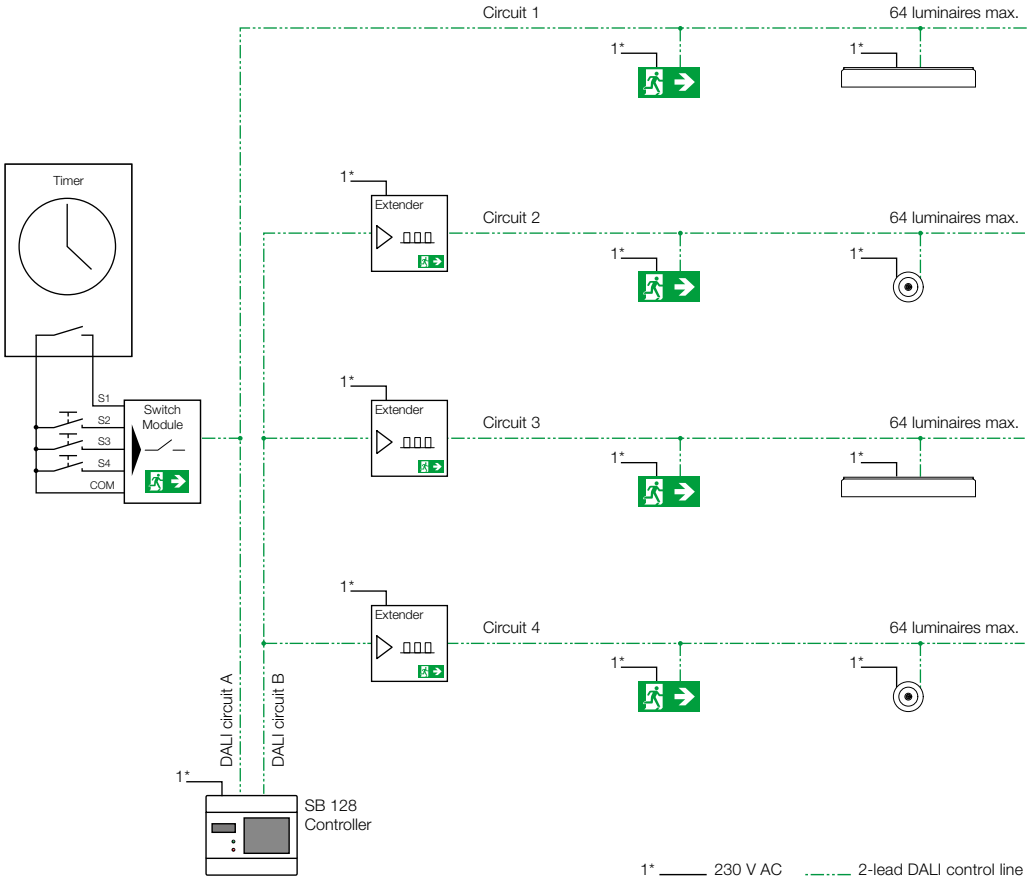


Switched maintained mode with switching input
Connect switched phase to switching input of the emergency luminaire. The luminaire is switched on and off depending on the switch position.



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 emergency 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.


ZUMTOBEL
ONLITE central eBox
ONLITE eBox
Normalbetrieb
Batteriespannung: 234,5 V
Ladestrom: -1,7 A
Batterietemperatur: 20 °C
Anlagenstatus
Quickmenü
Notlichtfunktionen
Einstellungen
V 1.02
12.03.2012 I 10:12 Uhr
Status
Address
8 AT
8 AT
8 AT
SCM
ONLITE central eBox
CPU
OCM-CPU

ONLITE central
Emergency lighting systems with central power supply

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
- Ideal for use in a fire compartment

Central power supply systems

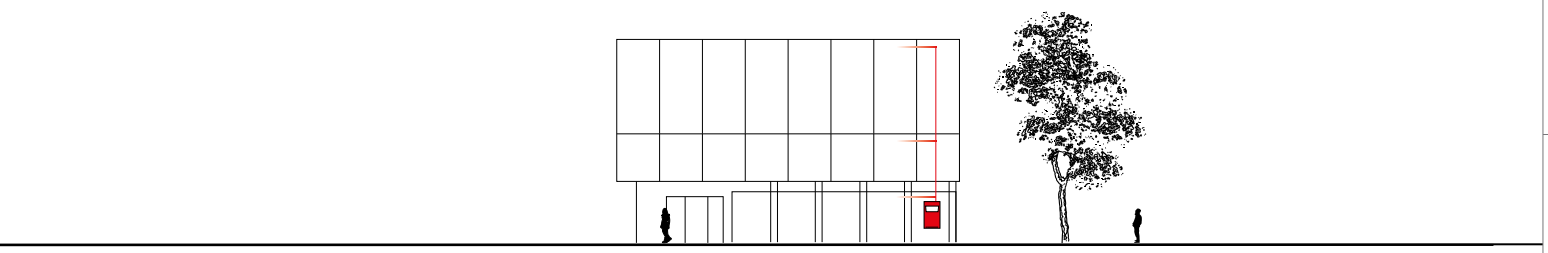
Open-ended systems
with unlimited output

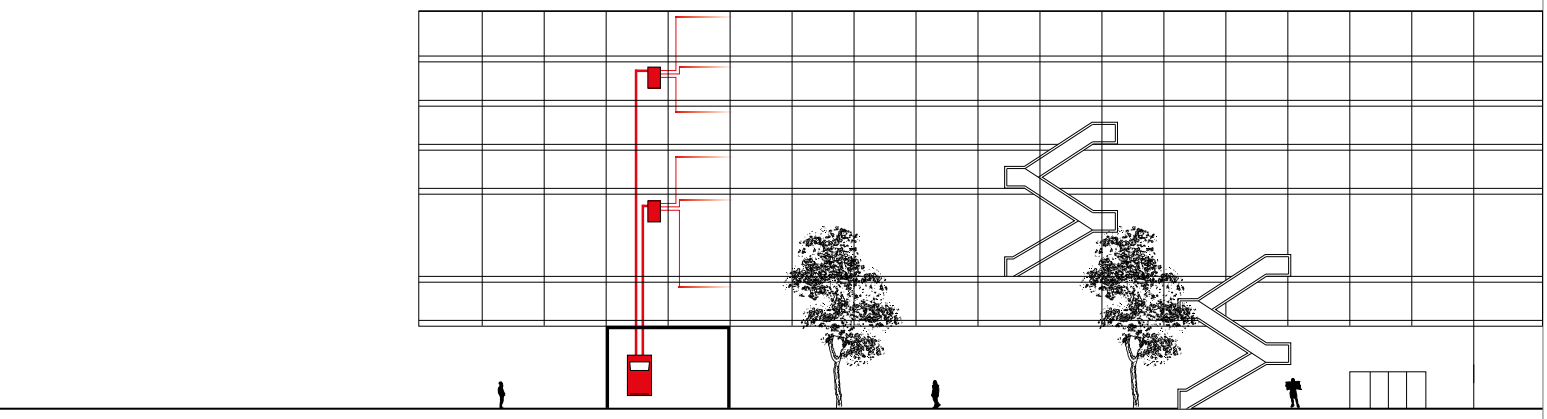
ONLITE central eBox
Providing for optimum adjustment to modern LED luminaires, several systems are simply linked to each other within the centrally supplied ONLITE central eBox emergency lighting system. In the process, the modular input and output modules acquire maximum flexibility.

- SUB distribution boards 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 supplying 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 emergency sign luminaires can be integrated into the system.

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



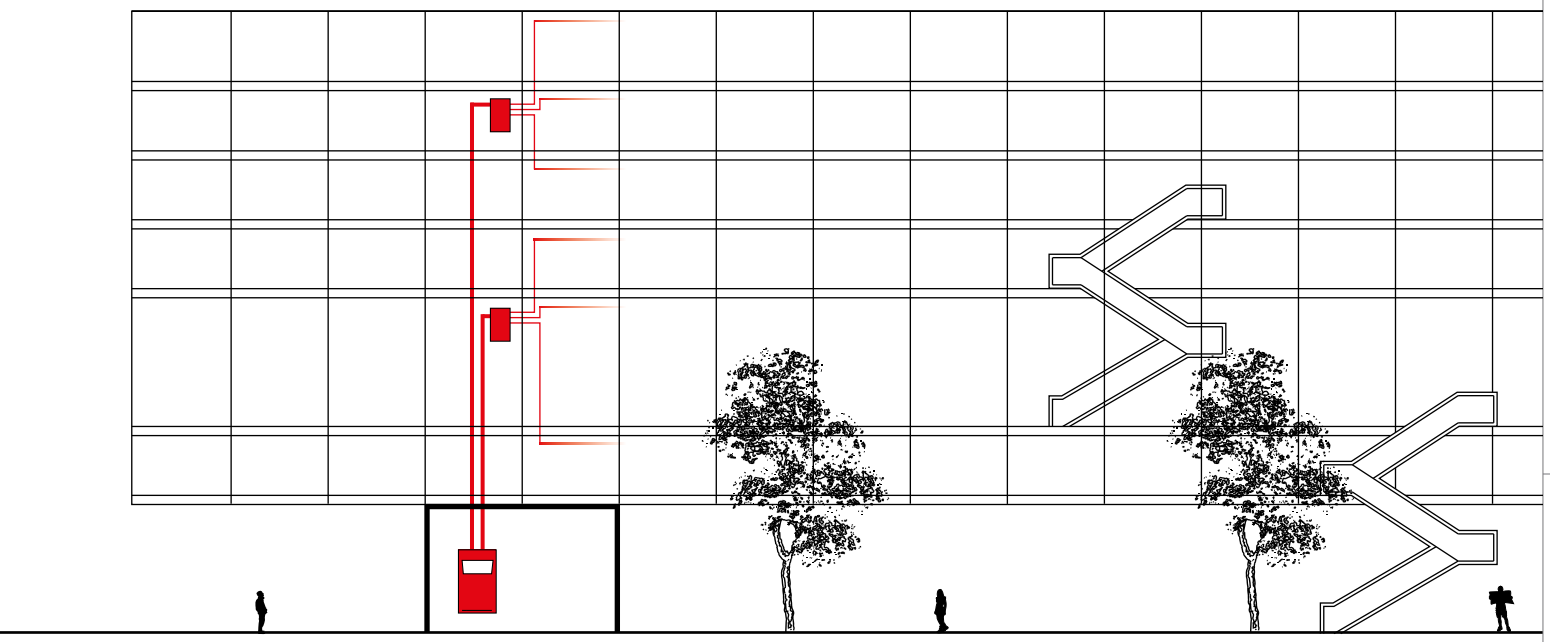


ONLITE central eBox*
Facts and benefits at a glance

* 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

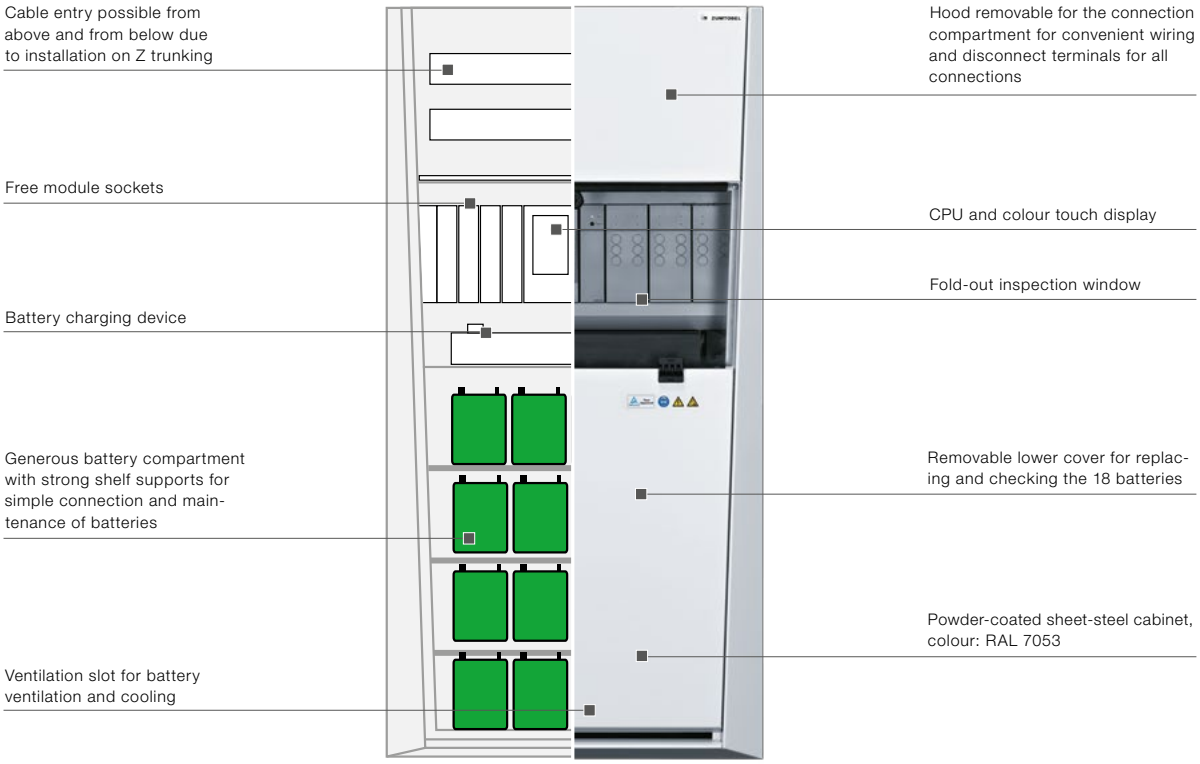
The ONLITE central eBox works in perfect harmony with Zumtobel LED emergency and emergency sign luminaires. Even the use of standard luminaires with mains voltage of 230 V AC or 216 V DC is possible. Thanks to the convenient structure and the modular plug-in technology, the central emergency power supply 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.

TÜVRheinland® Type Approved

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.

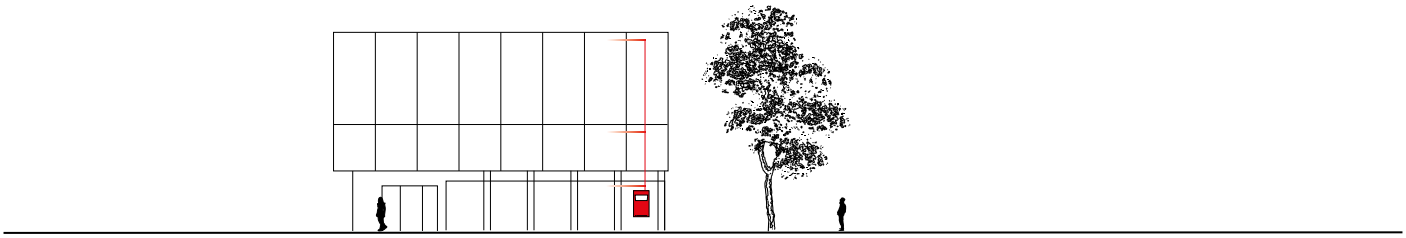
* LPS (Low Power Supply) system under EN 50171 for max. 1500 W for 1 h emergency operation and 500 W for 3 h emergency operation
** CPS (Central Power Supply) system under EN 50171Independent from output, open-ended system




ZUMTOBEL

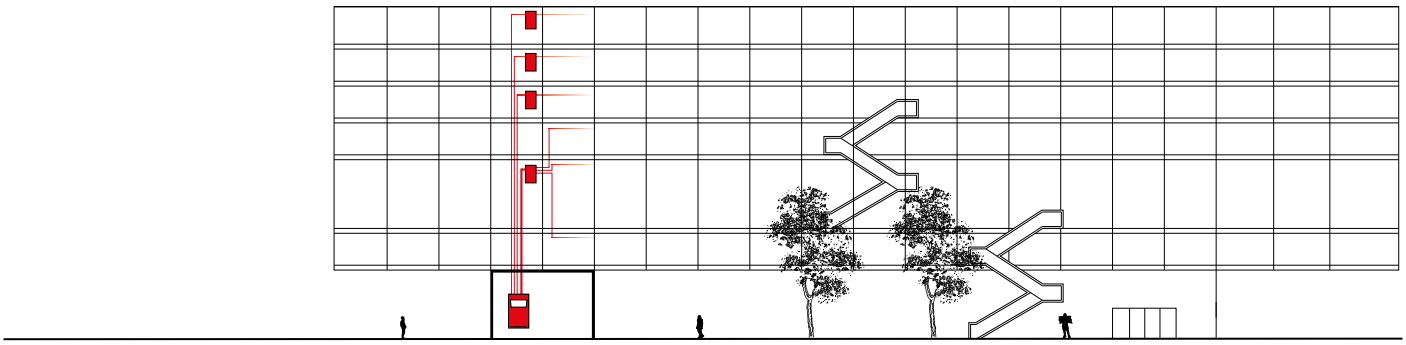
ONLITE central eBox
Examples of substation and main station applications

Stand alone



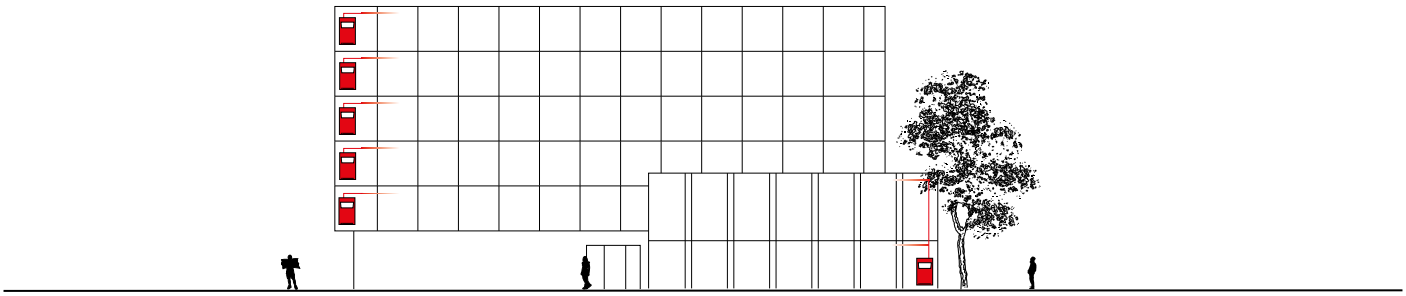
For the supply and monitoring of smaller objects, the ONLITE central eBox system is installed in the building. Being a small system without any clear fire compartments, the efficient emergency lighting system is ideally suitable for shops, smaller offices and business enterprises (SMEs).

Optimised for installation



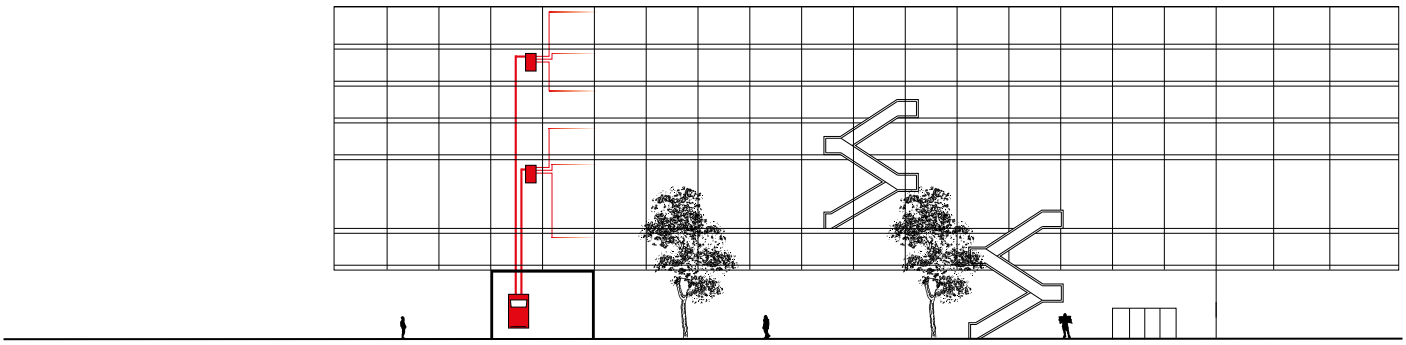
As a modular emergency lighting system, ONLITE central eBox supplies up to 30 circuits and 600 emergency and emergency sign luminaires. Owing to the use of SUB stations, the system is perfectly suitable for large-scale properties in terms of security and efficiency. The SUB stations offer another advantage: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

	eBox MS 1700	eBox MS 1200
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)					
ONLITE central eBox Accu PB / 12	[V]	8 h	5 h	3 h	2 h	1 h	0.5 h
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)

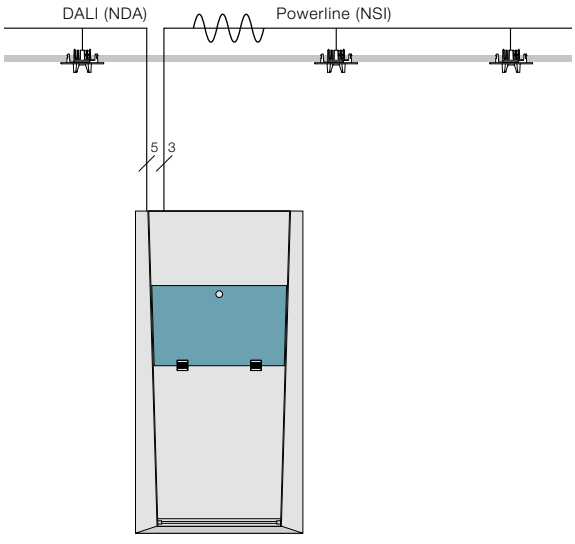
[3] DC output power depends on the available battery capacity

ONLITE central eBox system overview

Optimum solution for LED emergency lighting systems

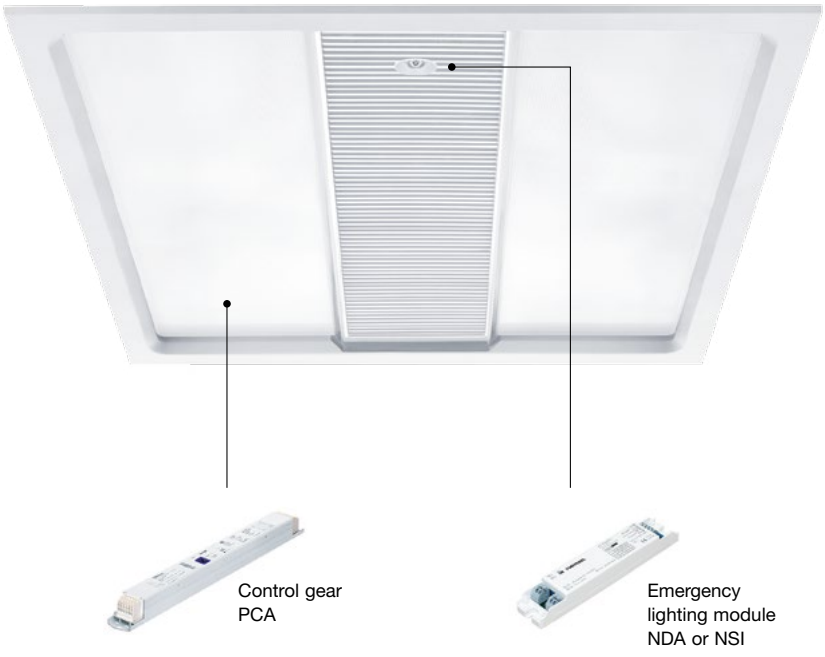
ONLITE central eBox and LED systems

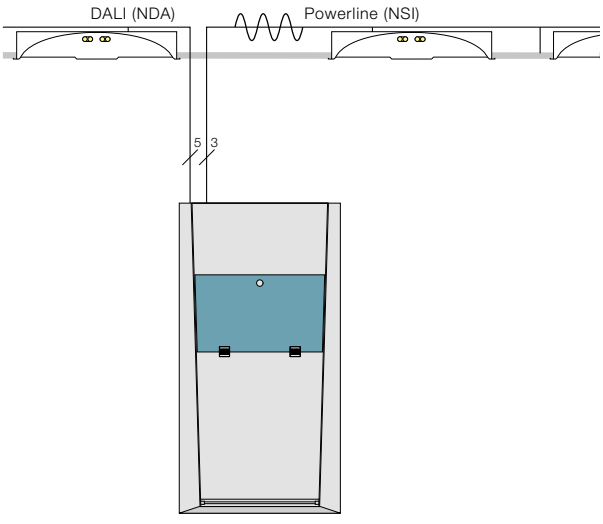
NDA or NSI control gear with built-in interface



Together, ONLITE central eBox and innovative LED emergency and emergency 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



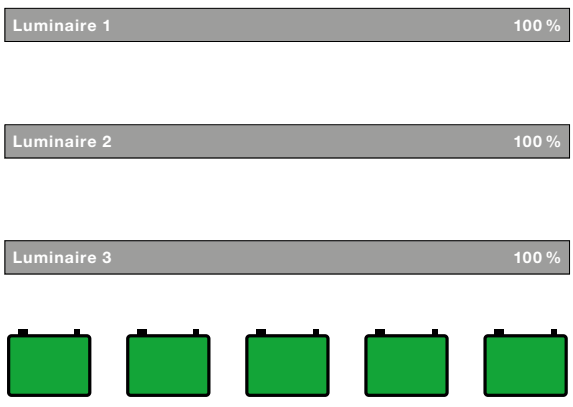


General lighting luminaires can be integrated into the emergency lighting system in order to achieve a uniform ceiling look. The ONLITE central eBox system ensures visual matching and optimum functional integration into the general lighting installation. Each luminaire can be perfectly integrated into 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

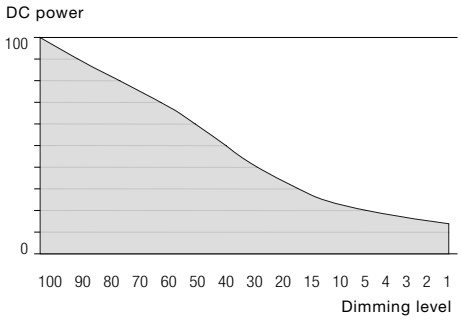
Emergency lighting level at the press of a button
The setting of the emergency lighting level is effected via the WEB interface of the ONLITE central eBox. These values, based on photometric calculations, can be entered for one circuit at a time or for each individual luminaire. Zumtobel luminaires with 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

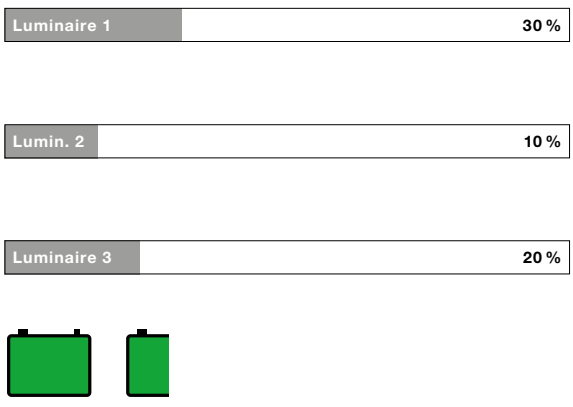


Non-programmable emergency lighting level
In the case of conventional emergency lighting solutions with non-programmable emergency lighting levels, output in emergency mode is identical to that in normal (mains operation) mode. This requires relatively high battery capacities and results in higher energy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

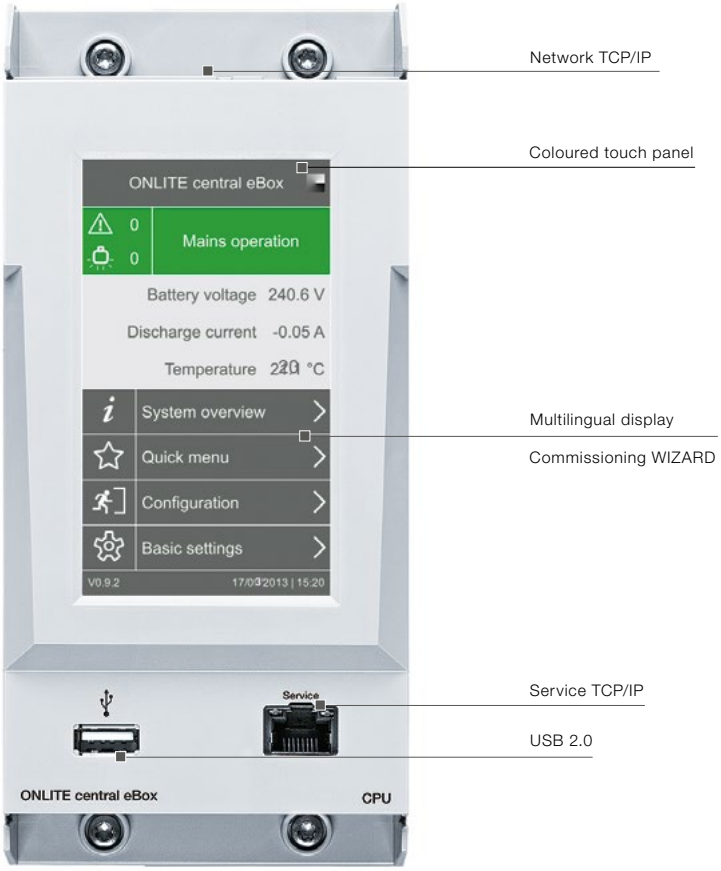


ONLITE central eBox and LED systems



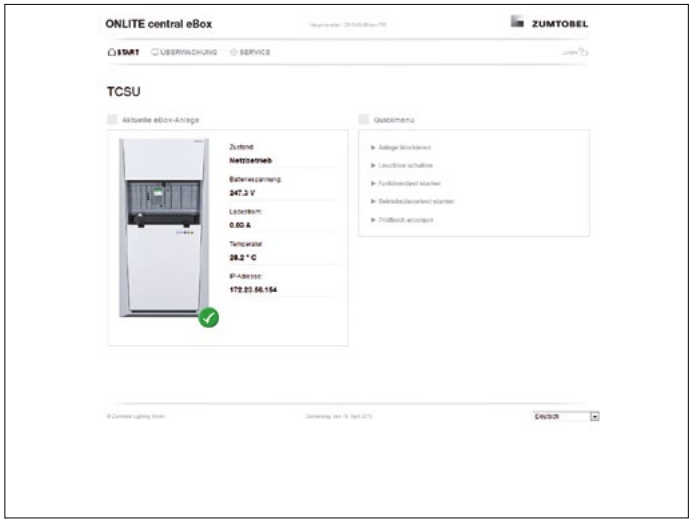
With programmable emergency lighting level
In most cases, 10 % of the lumen package of the mains lighting is sufficient to guarantee minimum illuminance for operation in emergency mode. The programmable emergency lighting level minimises system costs because sets of batteries and central installations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

ONLITE central eBox
Central processing unit for operation, visualisation and networking



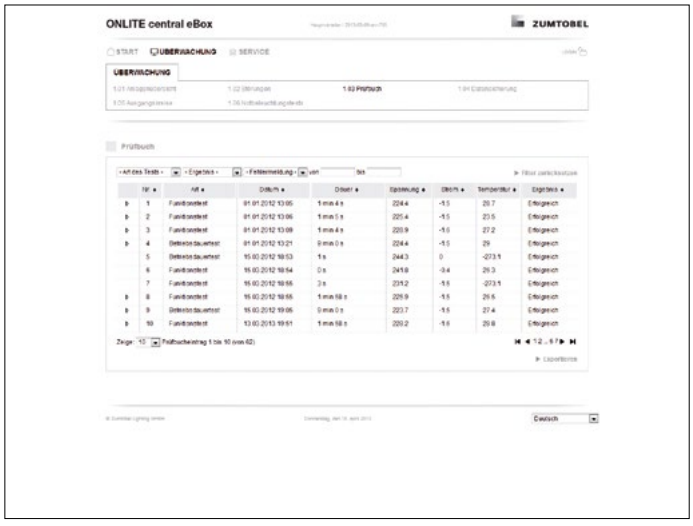
CPU Central Processing Unit
A central processing unit with a 4.3 inch colour touch display, in the ONLITE central eBox monitors and displays the entire emergency lighting system. Initial commissioning is quick and easy via the WIZARD-guided menu. Further settings are possible equally conveniently via 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.

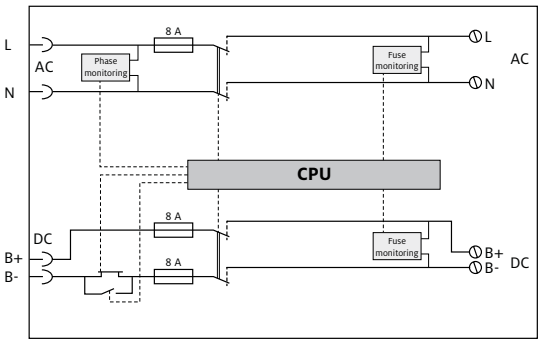
ONLITE central eBox
SCM and OCM – to be easily fitted according to requirement and application

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

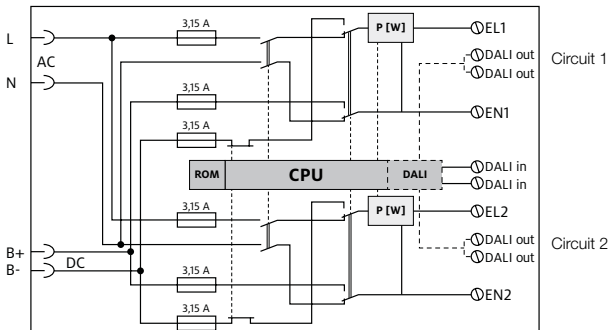


ONLITE central eBox OCM

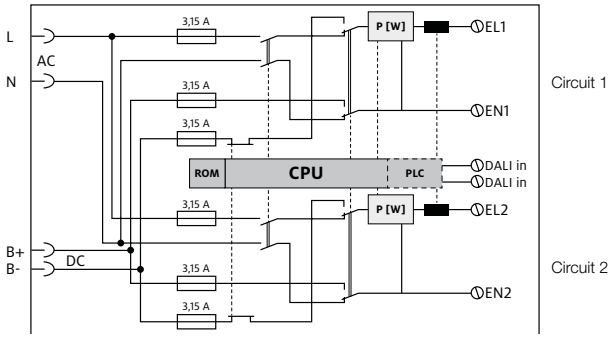
OCM Output Circuit Modules
Up to three ONLITE central eBox OCMs per system can be used as an option. In this context, the different functions of the modules may also be mixed. Each circuit is separately protected by a 3.15 A 6 x 32 mm fuse. In the battery circuit, there is 2-pole fusing, in the mains 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)

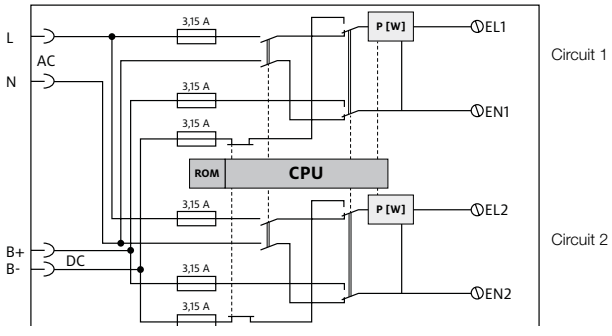
OCM NDA
Double-circuit module DALI communication



OCM-NSI
Double-circuit module Powerline communication



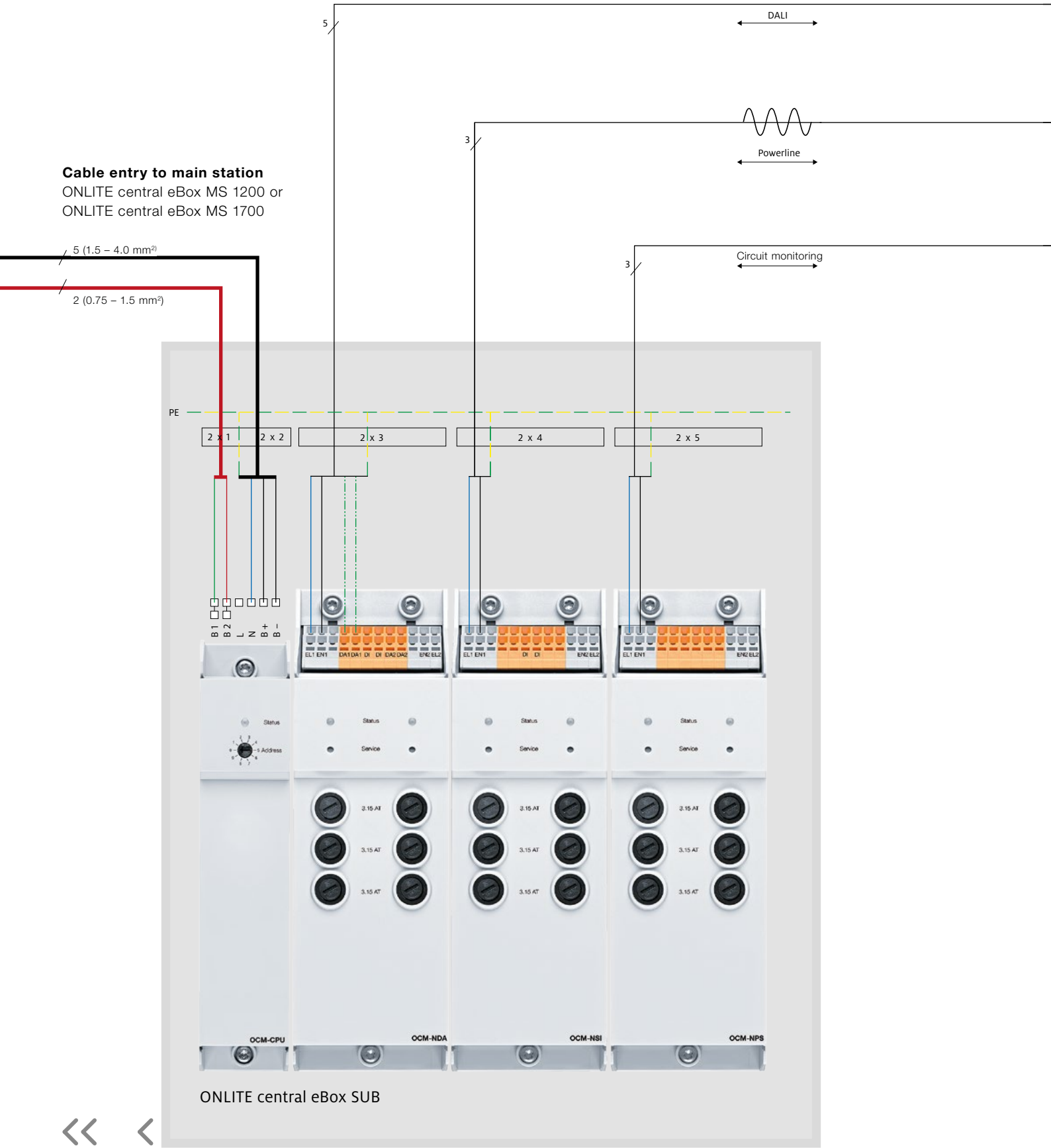
OCM-NPS
Double-circuit module with circuit monitoring



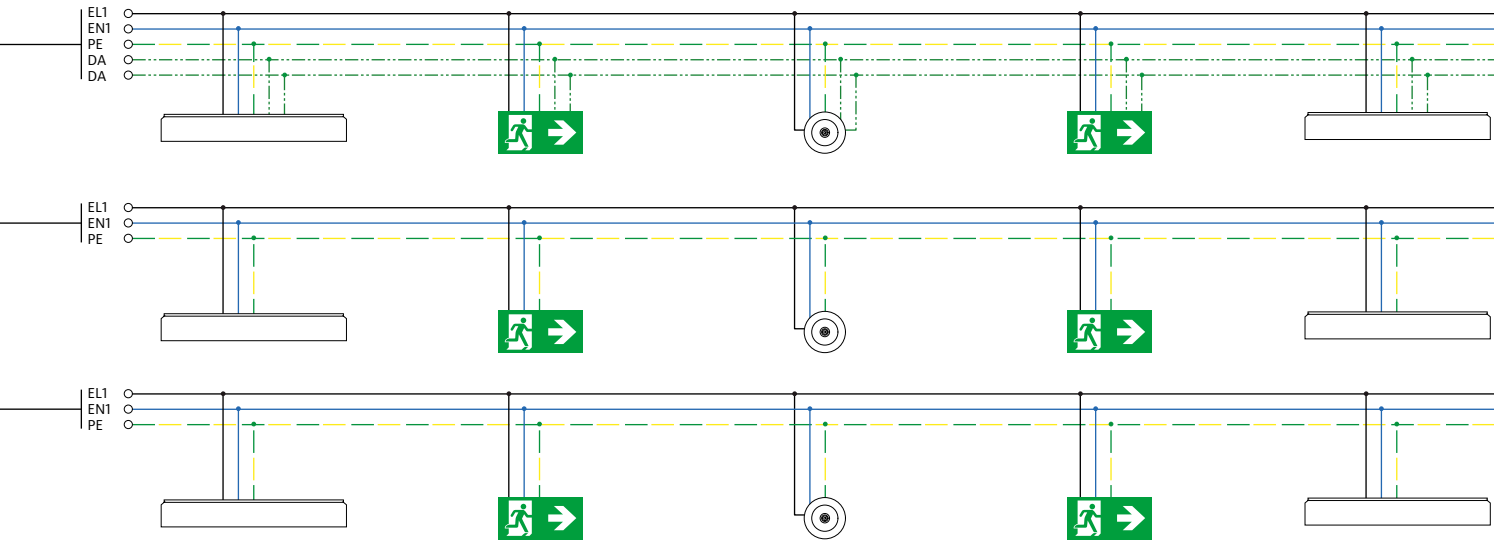
ONLITE central eBox

Three SUB stations for all requirements

Cable entry to main station
ONLITE central eBox MS 1200 or
ONLITE central eBox MS 1700



ONLITE central eBox SUB

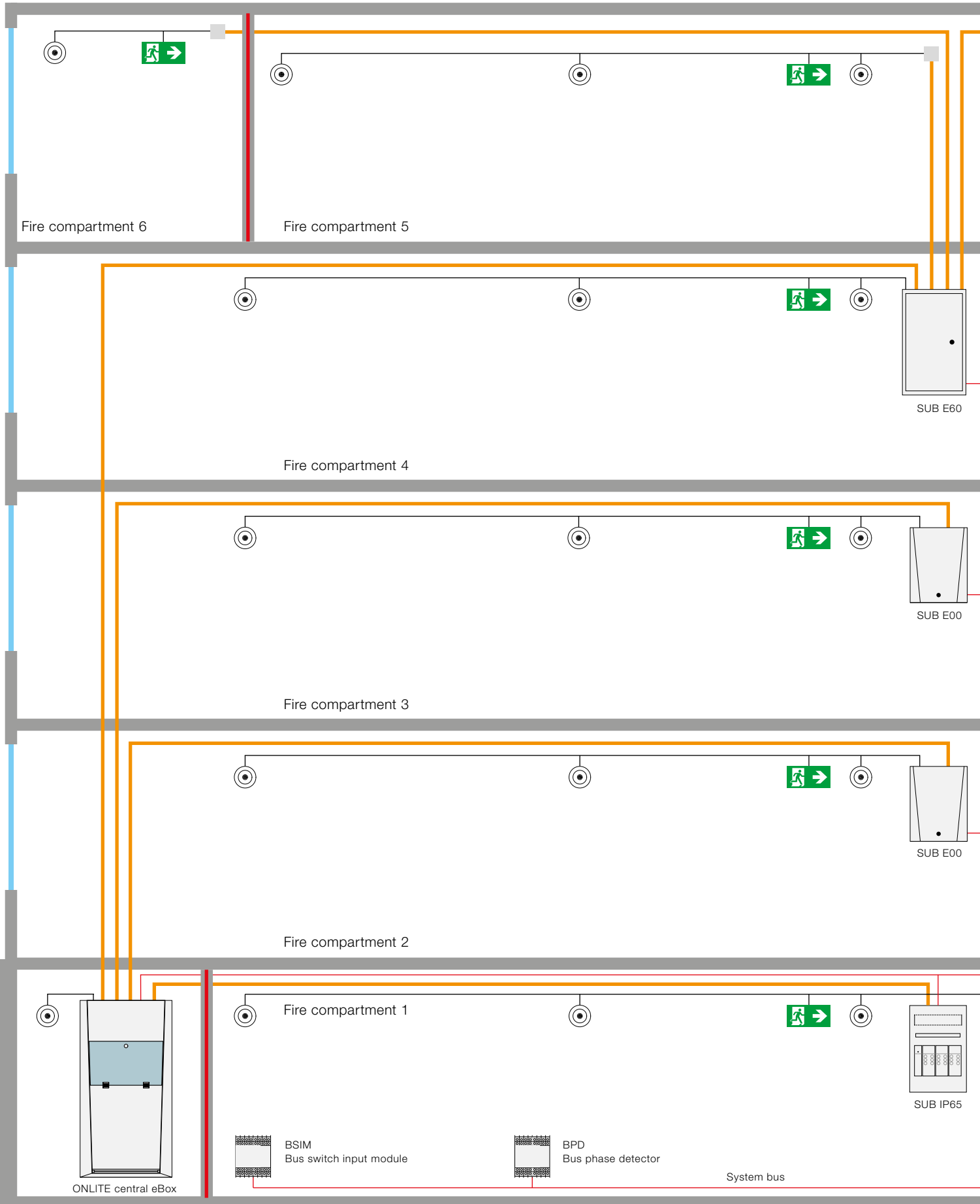


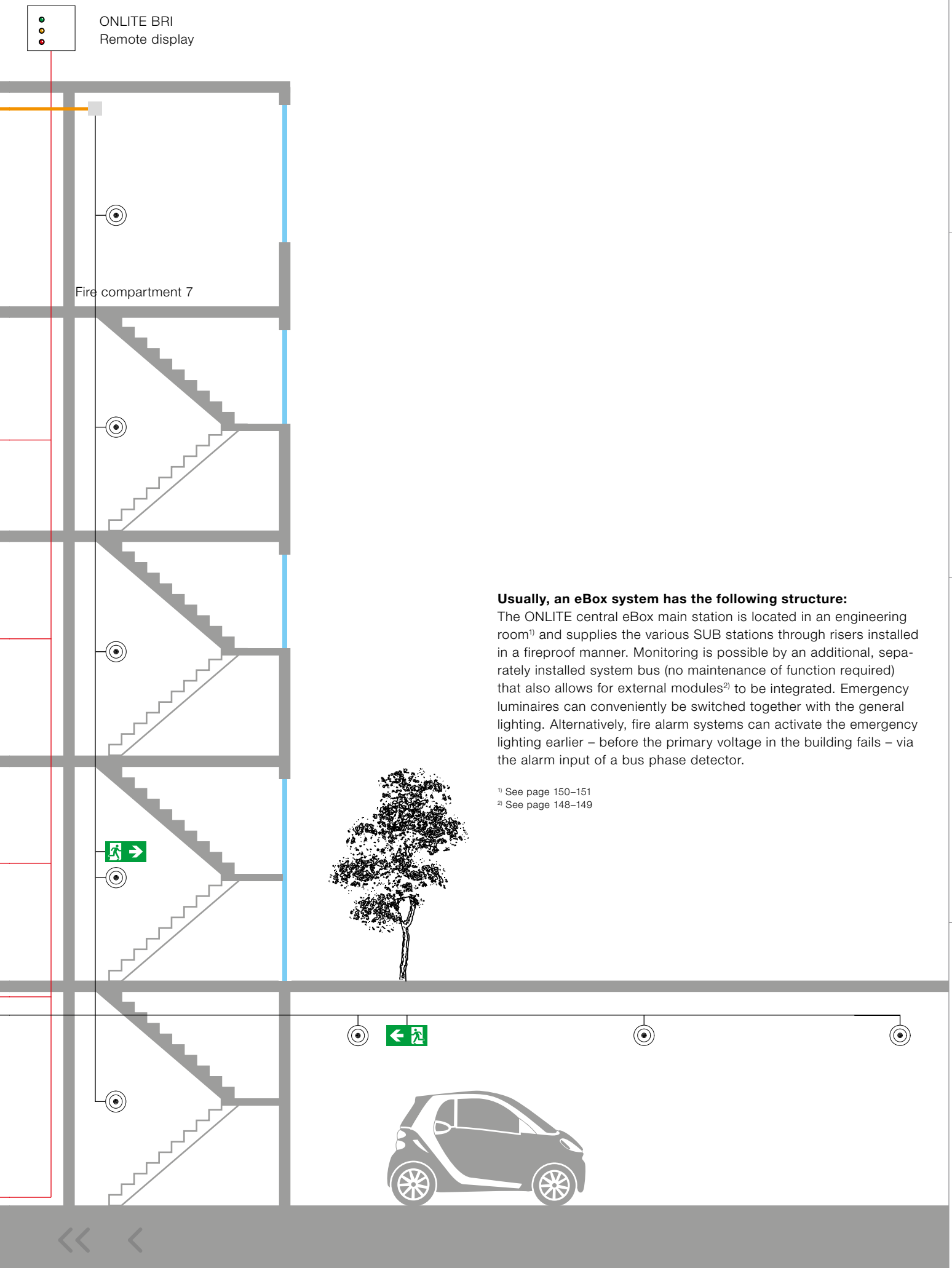
Cable entry from substation to main station ONLITE central eBox
The 5-pole power cable must be installed in a FP cable up to the place of installation of the ONLITE central eBox SUB station of the respective fire compartment. If several fire compartments are supplied from the ONLITE central eBox SUB 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





Usually, an eBox system has the following structure:
The ONLITE central eBox main station is located in an engineering room[1)] 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 modules[2)] 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

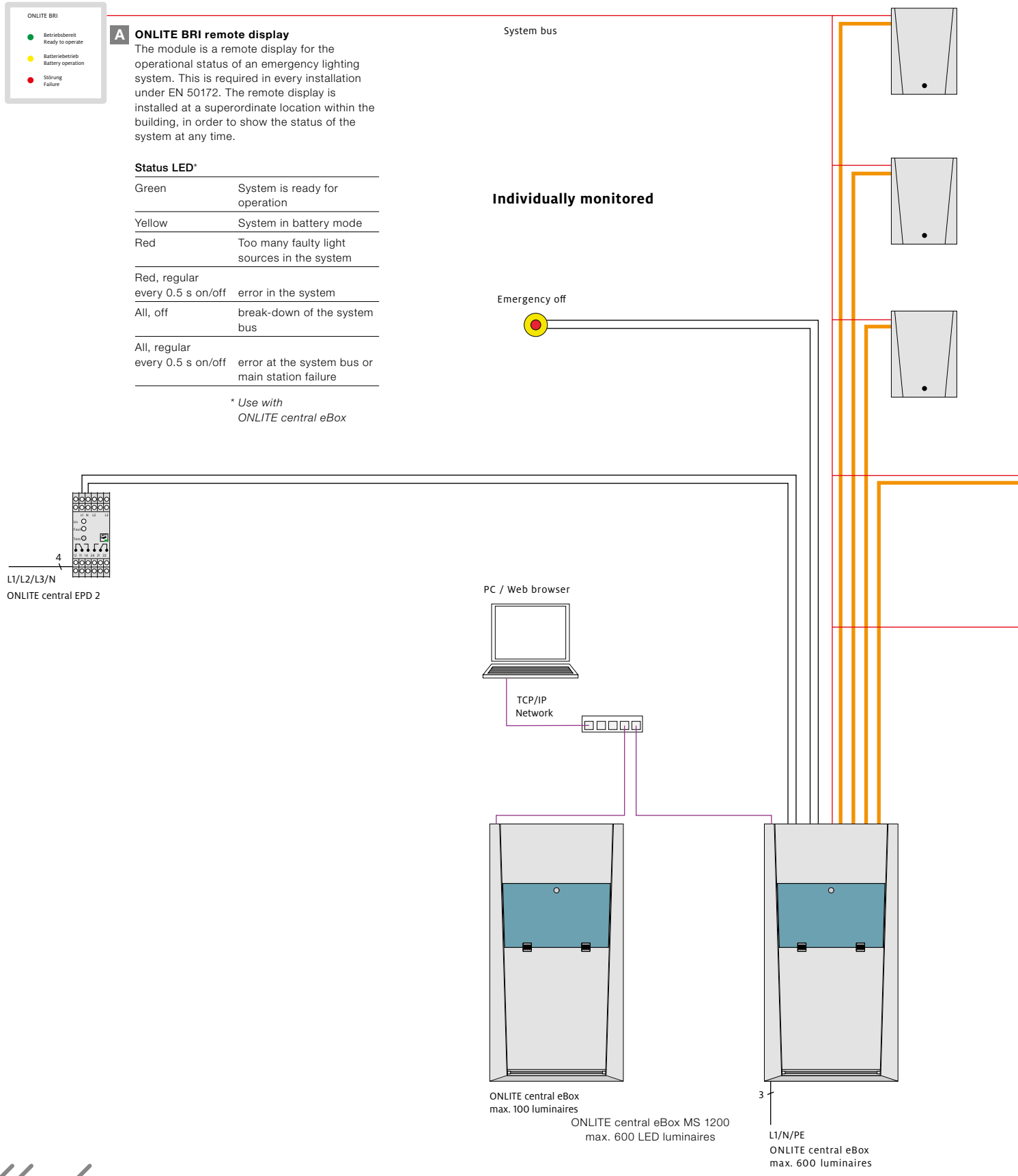
ONLITE central eBox design tips
System topology

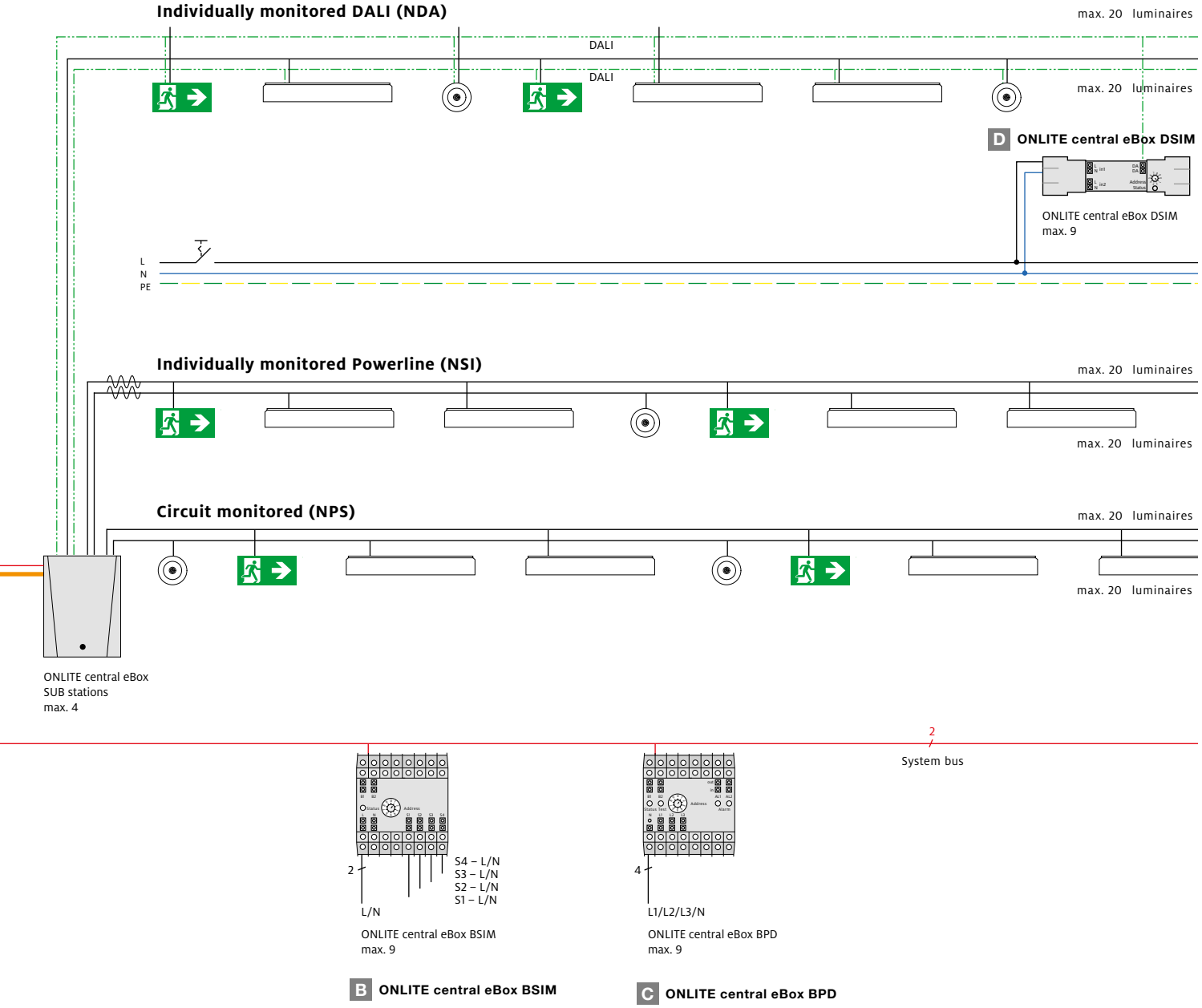
A **ONLITE BRI remote display**
The module is a remote display for the operational status of an emergency lighting system. This is required in every installation under EN 50172. The remote display is installed at a superordinate location within the building, in order to show the status of the system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

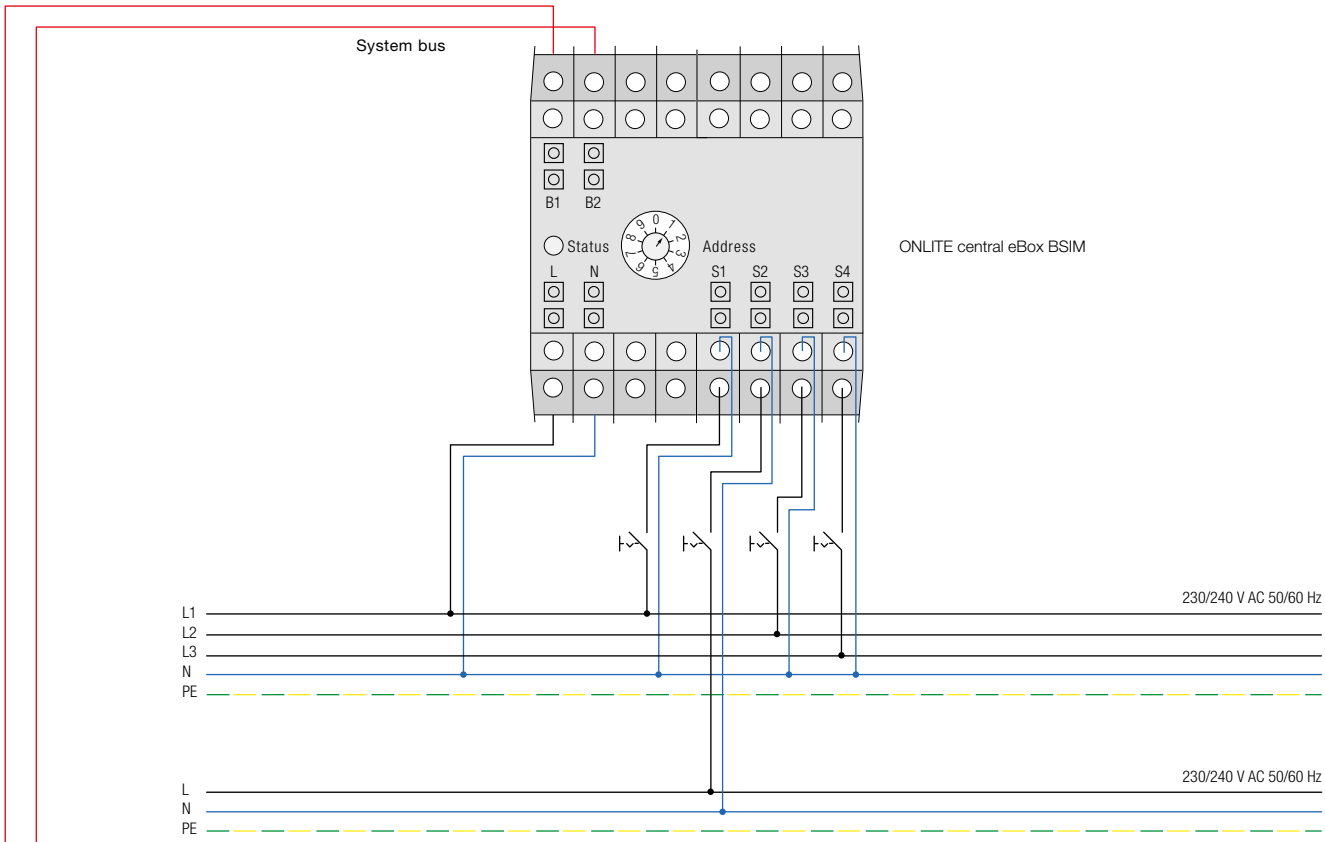
** Use with ONLITE central eBox*

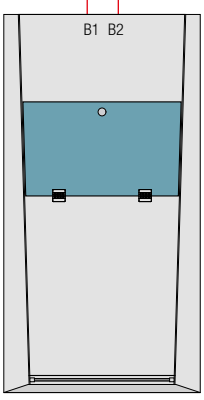



Individually monitored DALI (NDA)
max. 20 luminaires
DALI
DALI
max. 20 luminaires
D ONLITE central eBox DSIM
ONLITE central eBox DSIM
max. 9
L
N
PE
Individually monitored Powerline (NSI)
max. 20 luminaires
max. 20 luminaires
Circuit monitored (NPS)
max. 20 luminaires
max. 20 luminaires
ONLITE central eBox
SUB stations
max. 4
2
System bus
2
S4 – L/N
S3 – L/N
S2 – L/N
S1 – L/N
L/N
ONLITE central eBox BSIM
max. 9
4
L1/L2/L3/N
ONLITE central eBox BPD
max. 9
B ONLITE central eBox BSIM
C ONLITE central eBox BPD

ONLITE central eBox design tips
System topology

B ONLITE central eBox BSIM



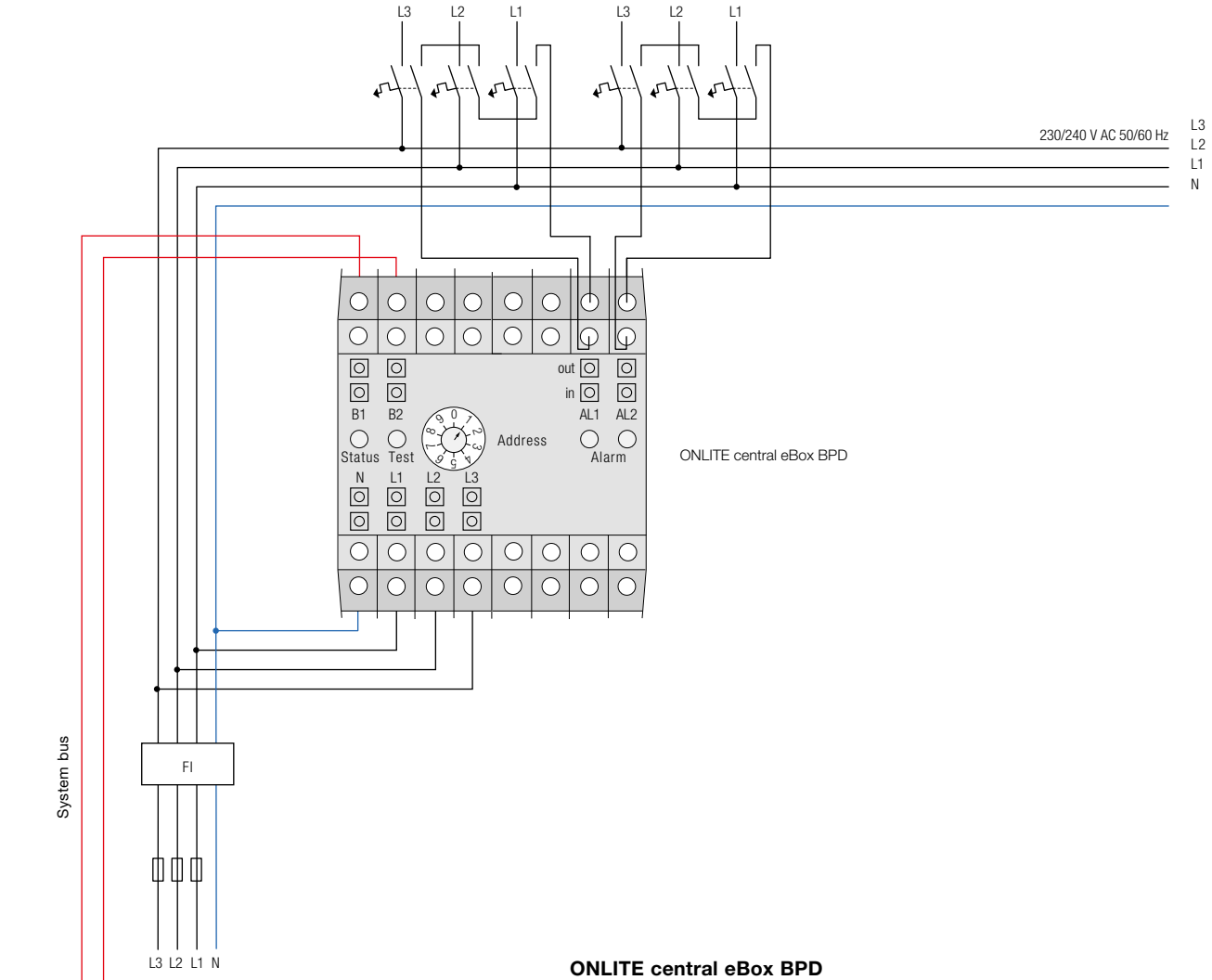


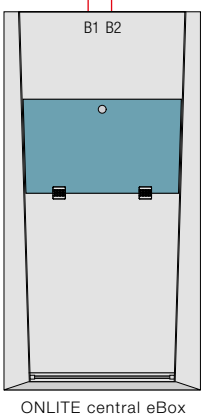
ONLITE central eBox

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 emergency 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

ONLITE central eBox BPD

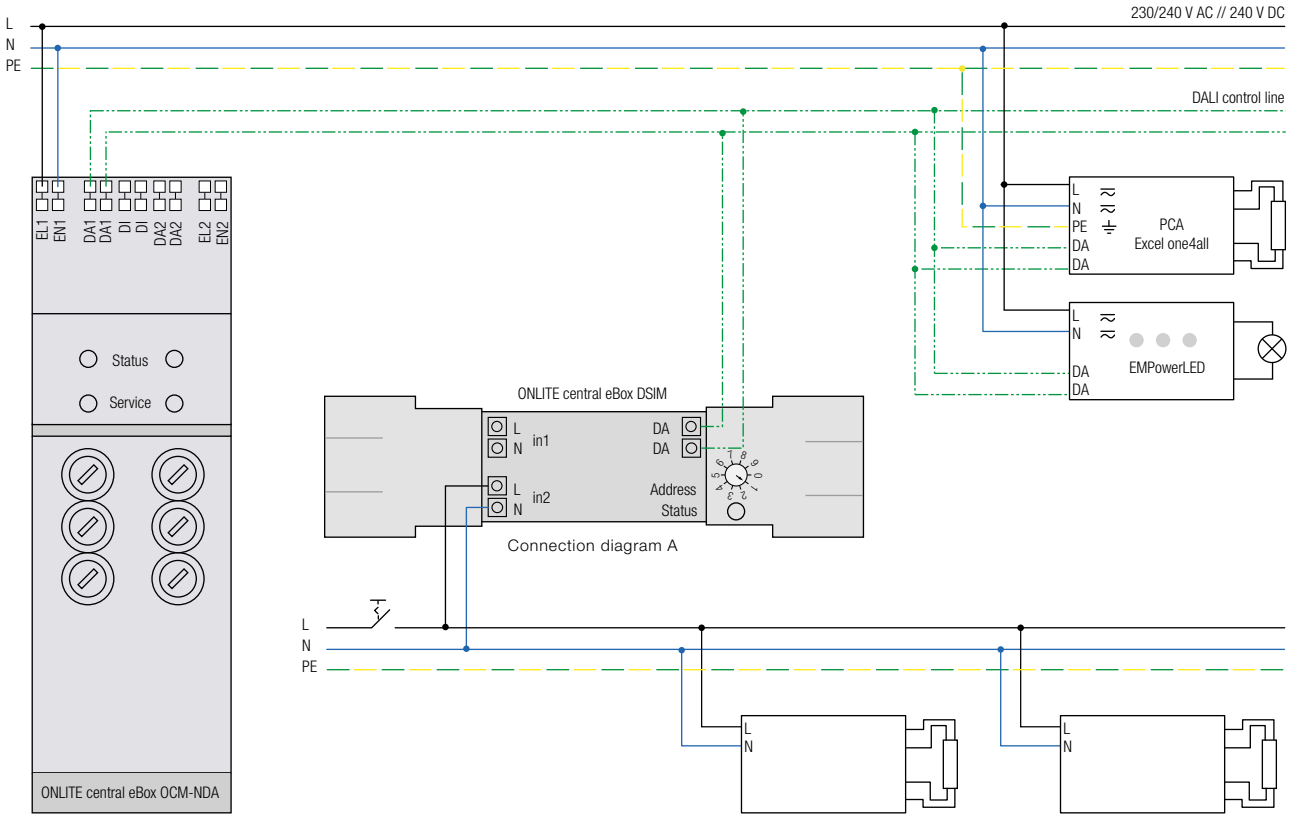
ONLITE central eBox BPD is a bus-compatible phase detector that is supplied with power from two places: the 3-phase network and the system bus. Up to nine bus phase detectors can be integrated into one ONLITE central eBox system. An eBox BPD offers fourfold protection:

- 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 emergency 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.

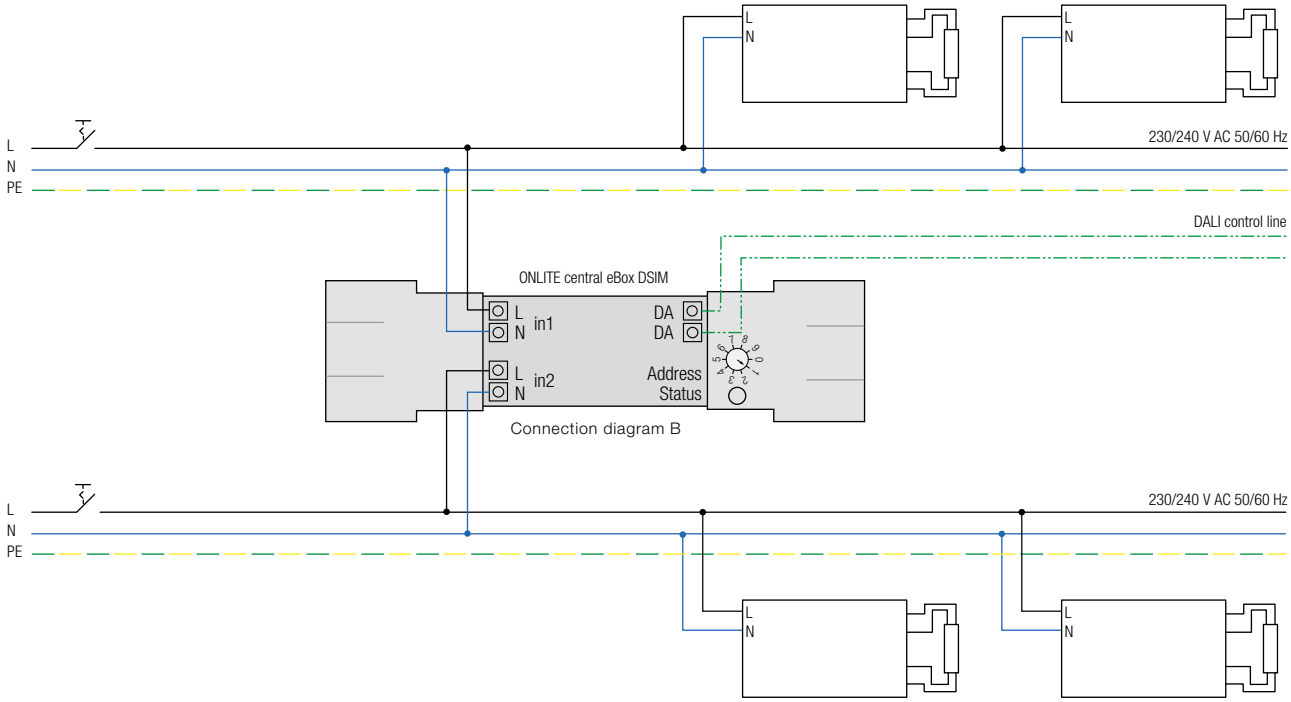
ONLITE central eBox design tips
System topology

D ONLITE central eBox DSIM

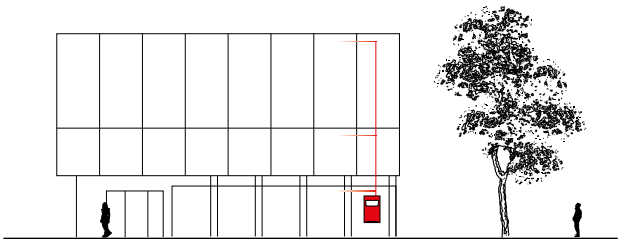


ONLITE central eBox DSIM
Dual mains switch input module for DALI-based activation of emergency luminaires together with the general lighting. Via a mains switch input of the general lighting, all luminaires at the DALI output can be switched throughout a circuit or group. The advantage of the module 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.


L
N
PE
230/240 V AC 50/60 Hz
DALI control line
ONLITE central eBox DSIM
L
N
in1
L
N
in2
DA
DA
Address
Status
Connection diagram B
230/240 V AC 50/60 Hz

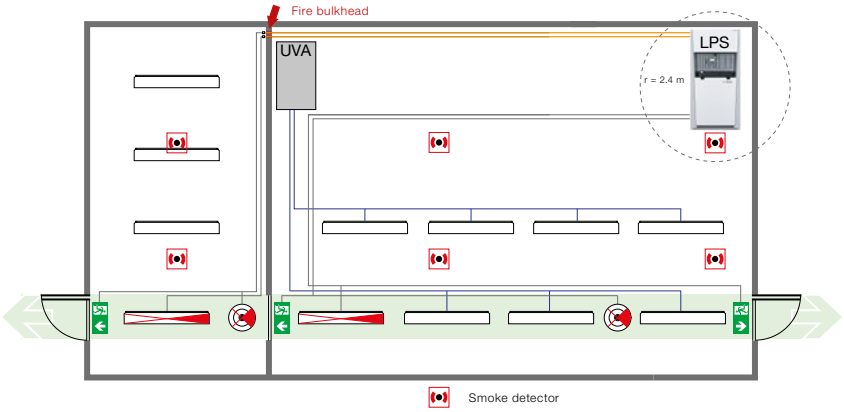
ONLITE central eBox
as a Low Power Supply system



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.

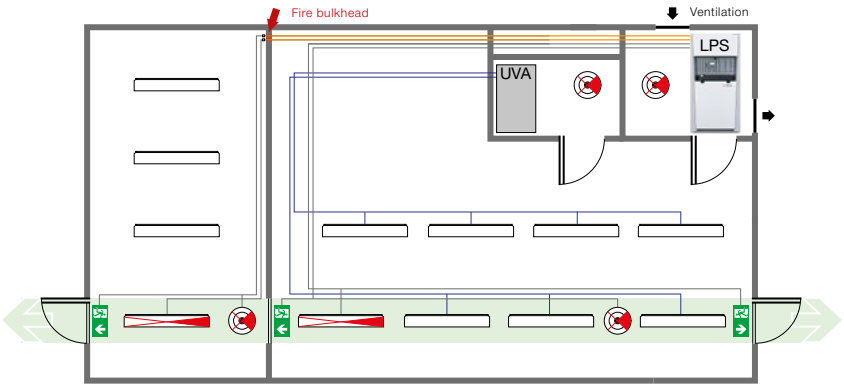
Requirements in Austria

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 $EI_2$30C (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.



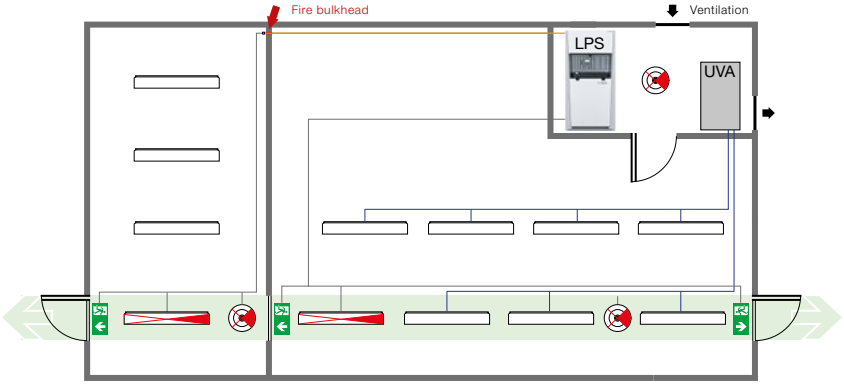
Requirements in Switzerland and Italy

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

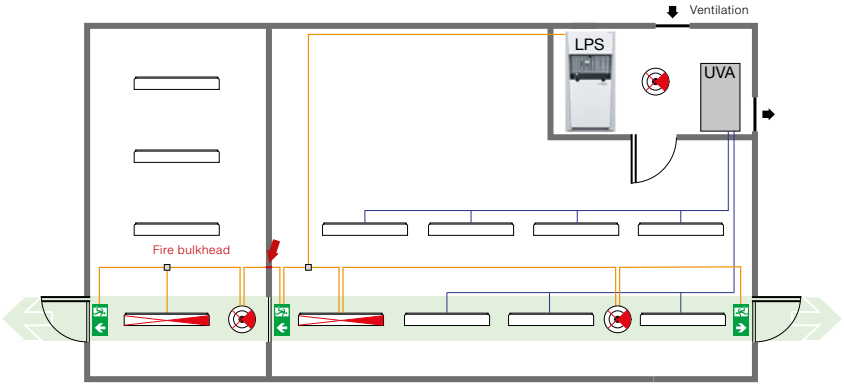
Admissible locations of power sources for emergency applications
- Sanitary distribution cabinets
- Telephone switchboards
- Rooms with safety systems
- Rooms with low-voltage distribution equipment for general power supply: power sources for safety applications must be separated with EI 60 (nbb) fire 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 emergency 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

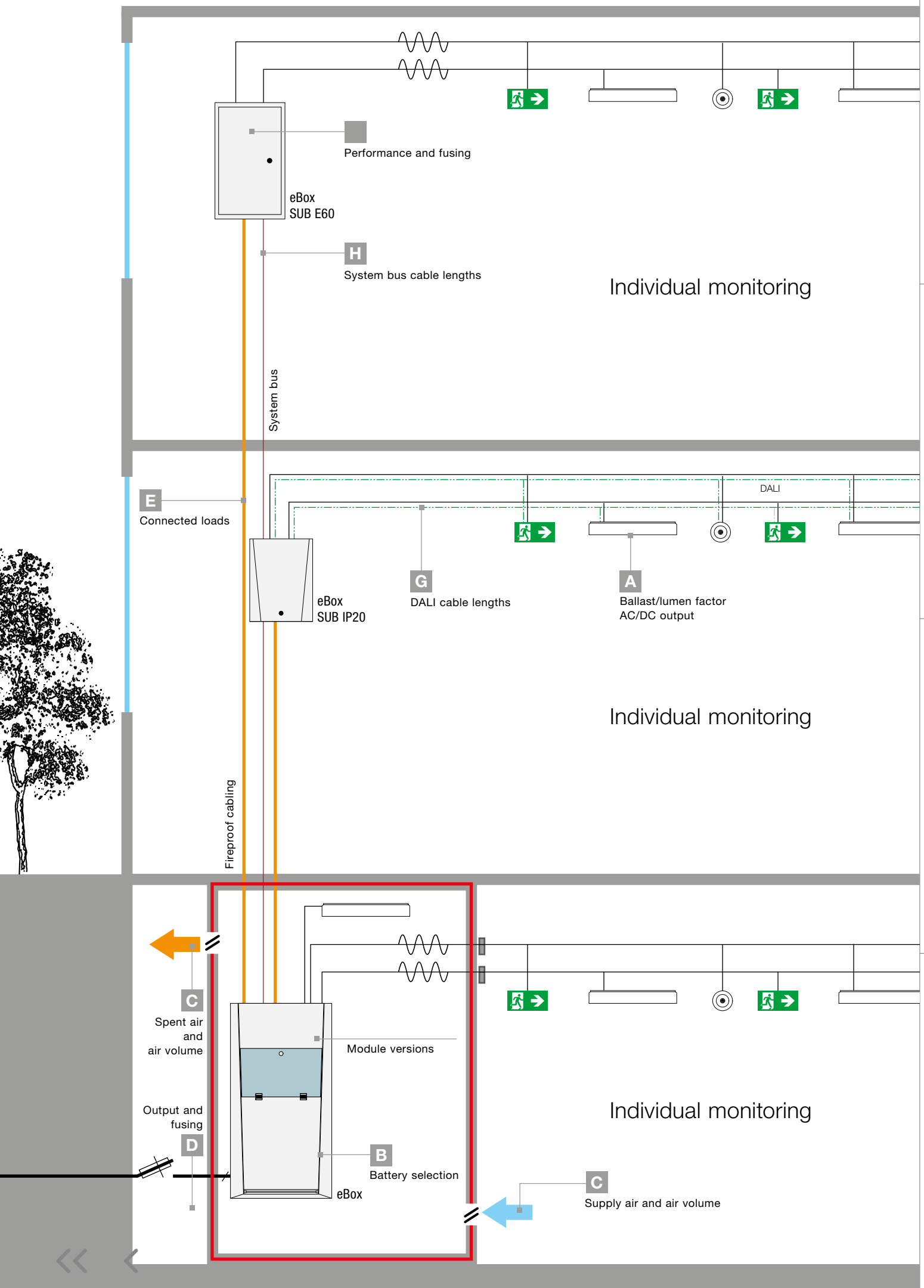
2 For each emergency luminaire, the ballast lumen factor (BFL) is defined as basic output in percent

3 Planning of emergency 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 emergency sign luminaires per output circuit

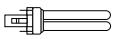
6 Determination of battery capacity according to duration of power supply


Performance and fusing
eBox
SUB E60
H
System bus cable lengths
Individual monitoring
System bus
E
Connected loads
DALI
eBox
SUB IP20
G
DALI cable lengths
A
Ballast/lumen factor
AC/DC output
Individual monitoring
Fireproof cabling
C
Spent air
and
air volume
Module versions
Output and
fusing
D
B
Battery selection
eBox
Individual monitoring
C
Supply air and air volume

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]	DC [W]	DC [W]	DC [W]	DC [W]	DC [W]	DC [W]	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	17.9	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 lp 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 lp 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 lp xitec II
		2/21W	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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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	17.7	PCA 1 x 18/24 TCL EXCEL one4all c xitec II
		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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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	Block weight	Pole connection
		[V]	8 h	5 h	3 h	2 h	1 h	0.5 h	[mm]	[kg]	
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	1 040	1 490	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		
		7.2 Ah	12 Ah	24 Ah
Required air volume flow rate in case of artificial ventilation	[m³/h]	0.04	0.07	0.13
Cross-section of ventilation slots in case of natural ventilation	[cm²]	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 Italy Europe	[min]	 4.5 kA 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_{cc}		< 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 mm²)

[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 mm²)

[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]			
		300	200	150	100
Recommended Cu cross-section with standard wiring	[mm²]	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

		Maximum length of system bus line [m]	
		350	500
Cable cross-section	[mm²]	2 x 0.75	2 x 1.5

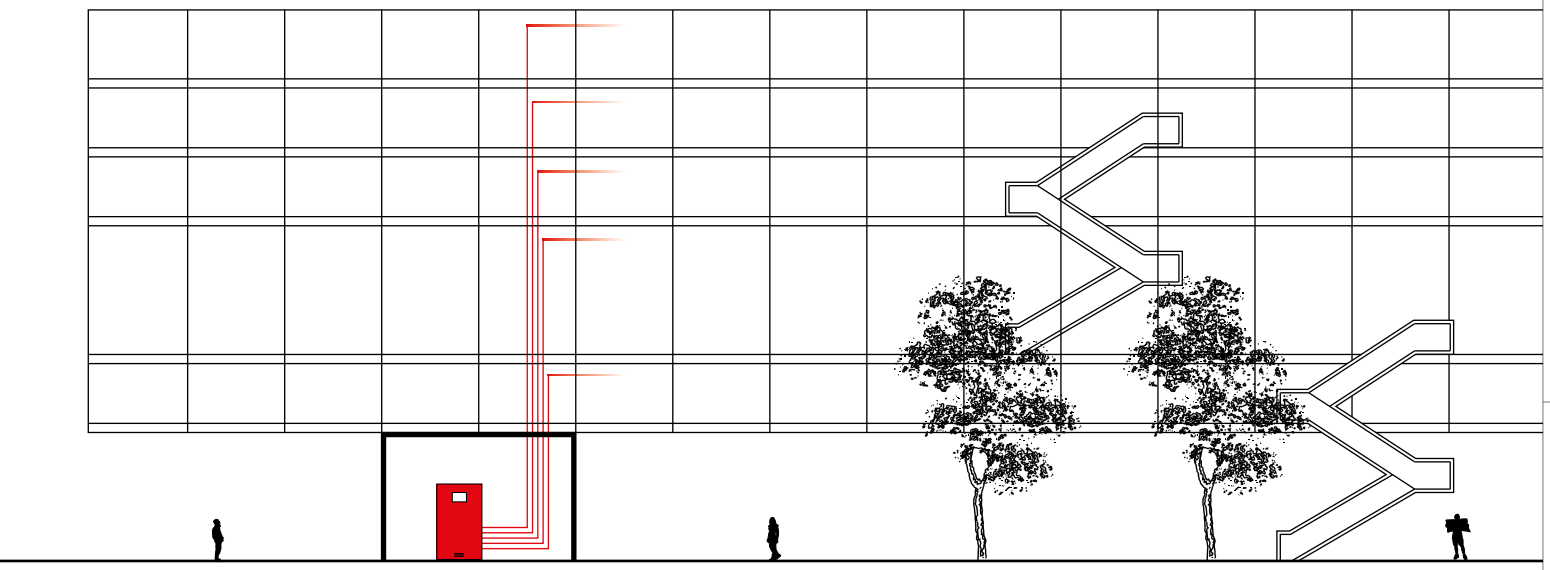
ONLITE central CPS

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 superfluo



Perfect design freedom

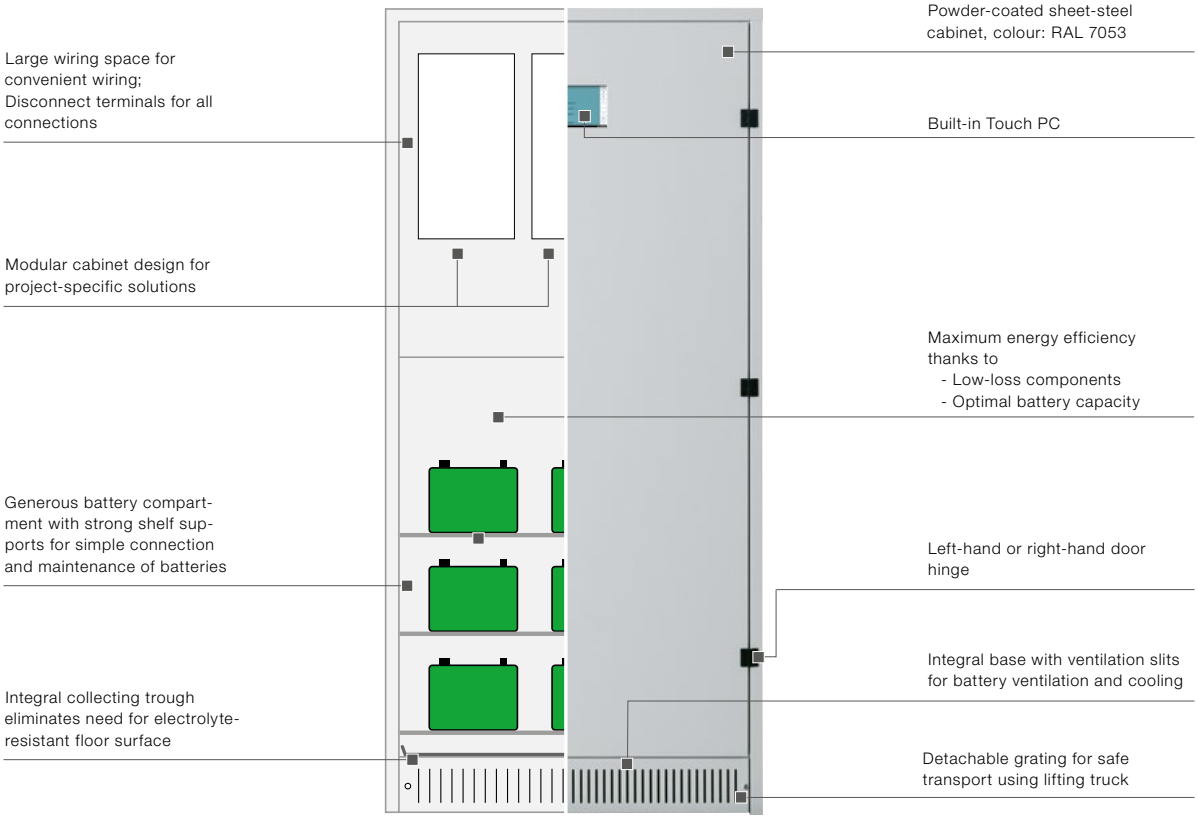
- Individual switching mode for each luminaire, even within a single circuit
- Combination of monitoring of circuits and individual luminaires in one system
- Simple project planning thanks to competent design support and extensive design tools

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

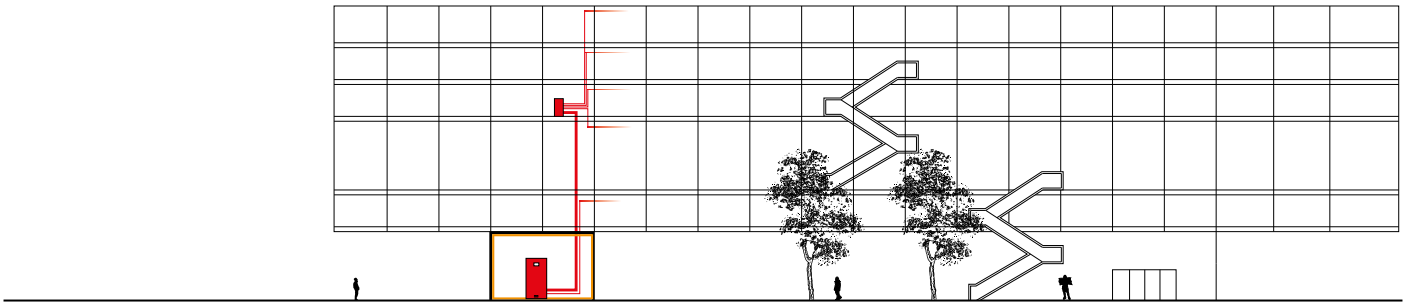
ONLITE central CPS
Tailor-made emergency lighting system

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.

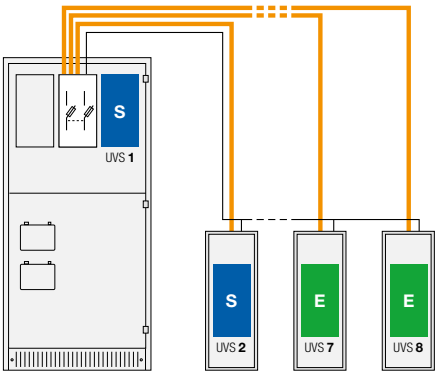


ONLITE central CPS
Examples of compact station and main station applications

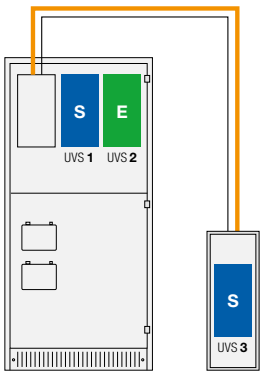
CPS K
Compact station



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.



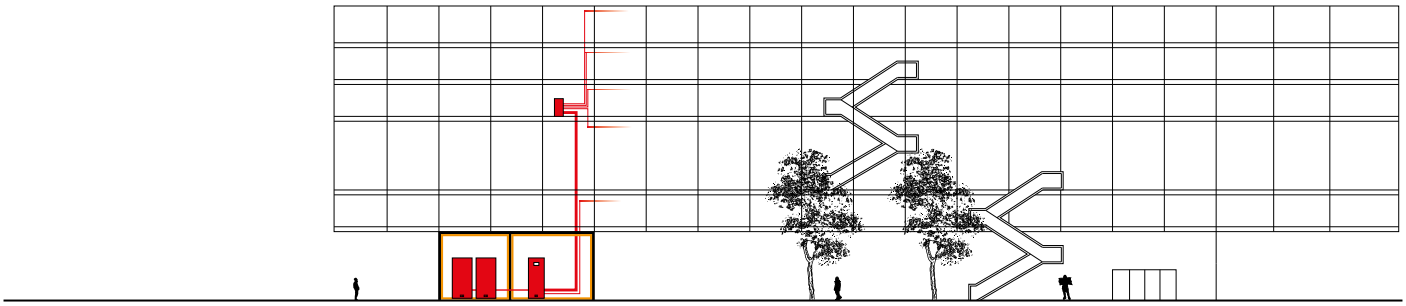
7 Ah
12 Ah
17 Ah
24 Ah
28 Ah
33 Ah
45 Ah
55 Ah
75 Ah



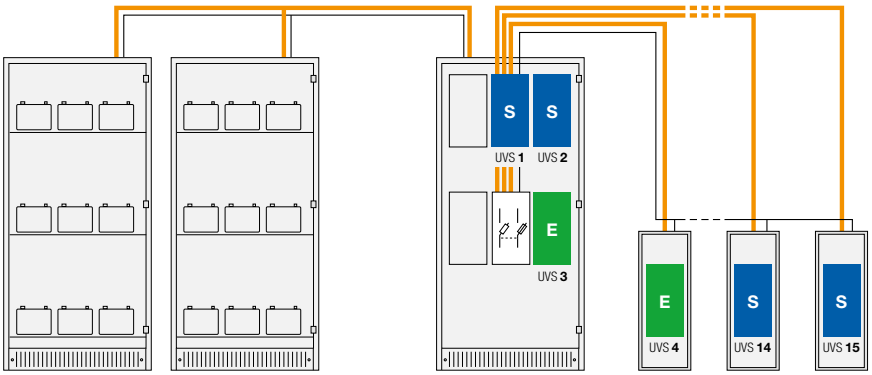
7 Ah
12 Ah
17 Ah
24 Ah
28 Ah
33 Ah
45 Ah
55 Ah
75 Ah

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	18 x 12 V / 7–75 Ah accommodated in combined cabinet	18 x 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

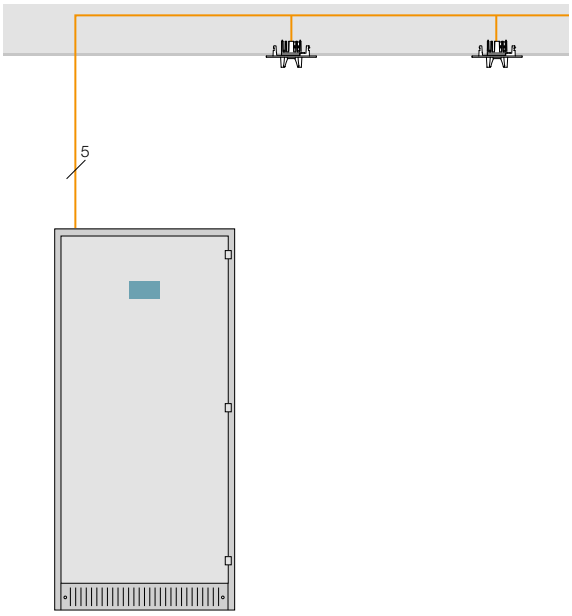
ONLITE central CPS

Every DALI standard luminaire is also an emergency luminaire

ONLITE central CPS and LED systems

NSI-Control gear with built-in DALI interface

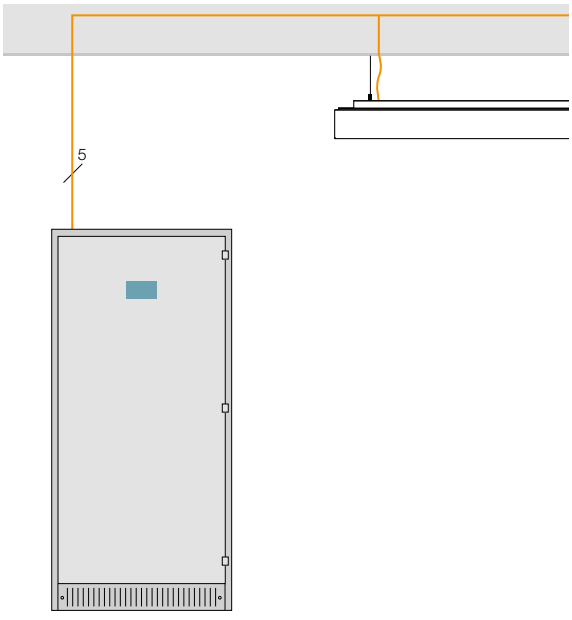
Combining ONLITE central CPS with innovative LED emergency and emergency sign luminaires offer distinct advantages. Using efficient LED luminaires that provide light distribution which is perfectly matched to emergency lighting needs keeps the installed load to a bare minimum. This means that required 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

PCA DALI
control gear

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.



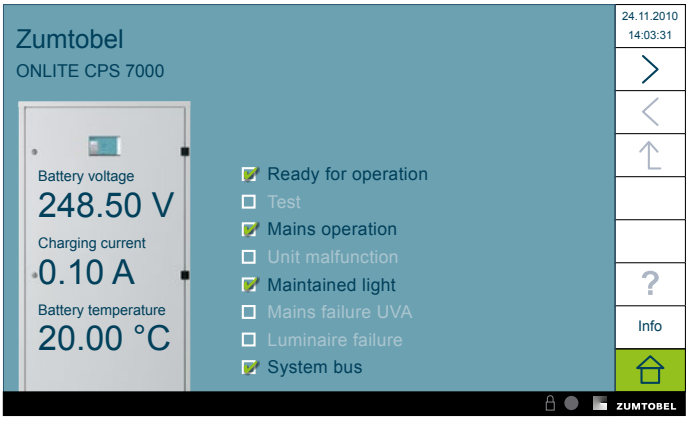
ONLITE central CPS

A system control centre for operating, displaying and networking

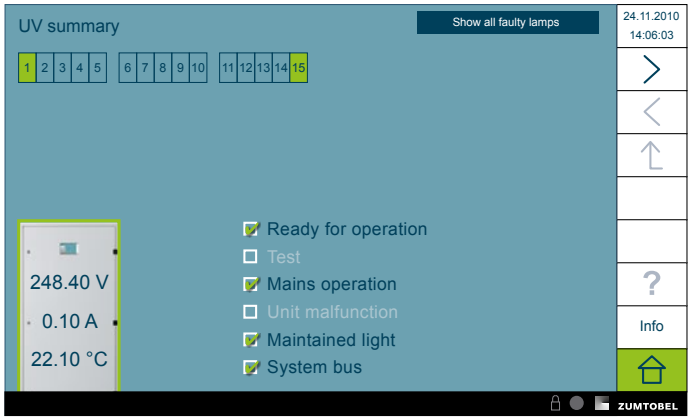
ONLITE central CPS sets new standards when it comes to monitoring and display of emergency lighting systems. A 7" LED-backlit WVGA widescreen (16:9) colour Touch PC displays the entire installation. Touch and control: It takes no more than three touches to access individual luminaire data and status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

Ethernet – WLAN – Internet

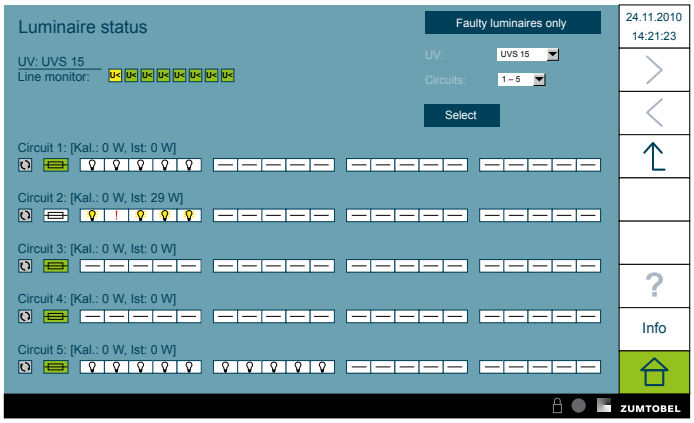
Networkability comes as standard
Every ONLITE central CPS module can be visualised via Ethernet using a web-based browser without the need for any additional software. The system can therefore be managed remotely from any PC.



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.

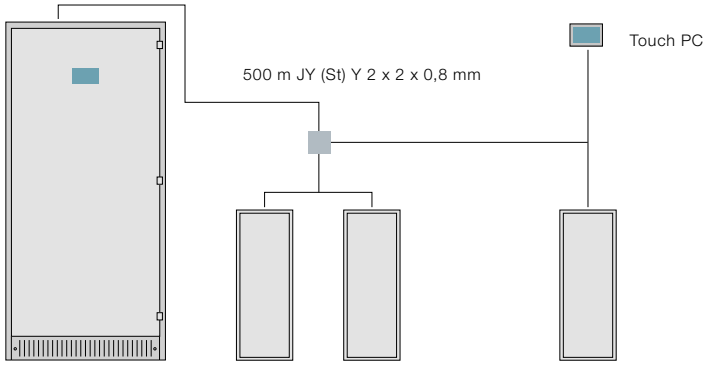
ONLITE central CPS

Plug-in and network Portable Touch PC for commissioning

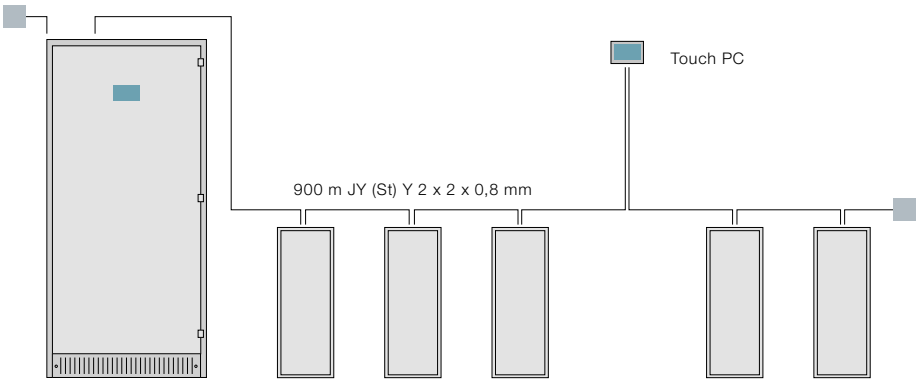
Besides performing major system documentation and display tasks, the removable unit with LED backlighting also offers substantial benefits when commissioning the ONLITE central CPS system. This operating and control unit plugs not only into the control centre but also into every substation – for local 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.

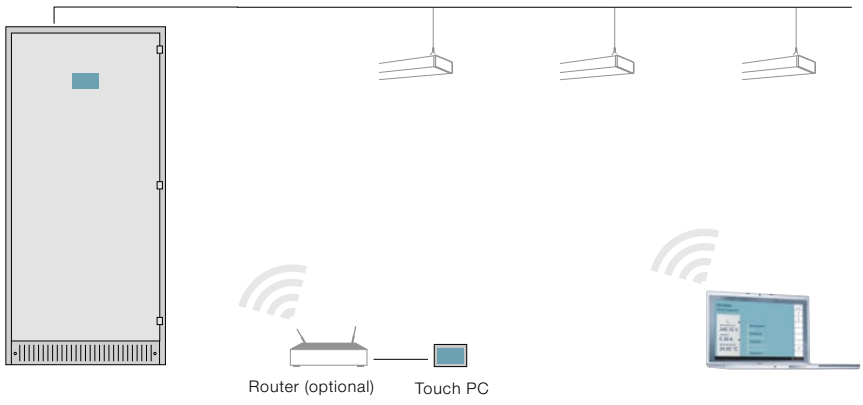
Free Topology
Total system control (bus line) cable lengths of 500 m can be realised using the standard “free topology” version. Up to 320 m between any nodes.



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

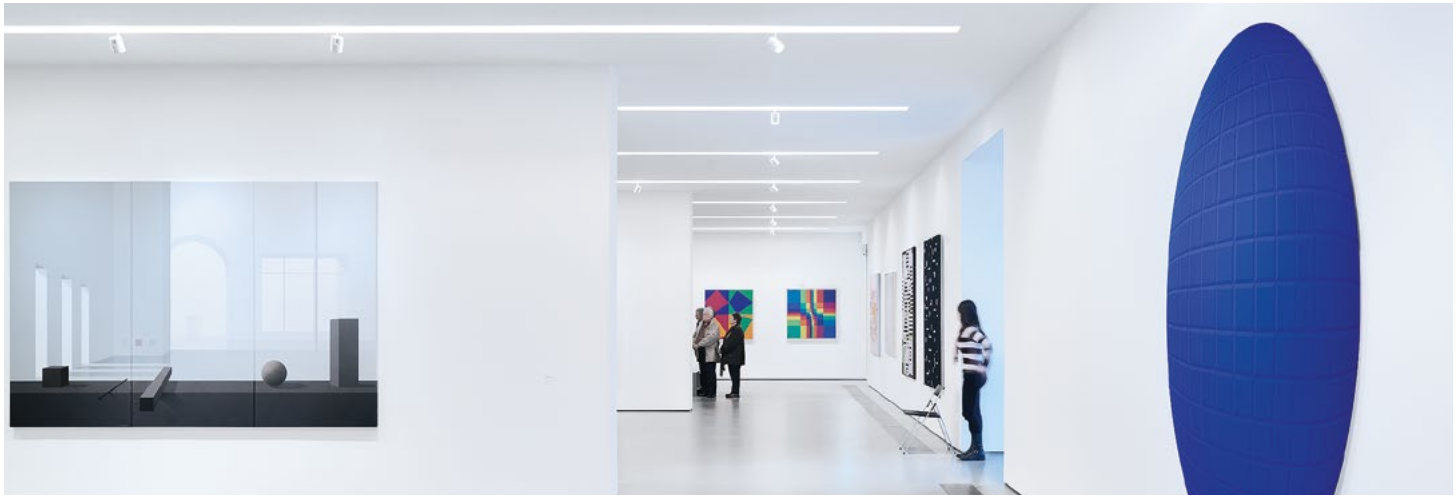
Individual monitoring is preferred in buildings such as shopping malls, hospitals or museums where there are a variety of lighting systems. Addressable, switchable and dimmable standard luminaires with DALI ballasts are used. Here too, it is possible to set the desired emergency power level without any 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 LITNET, 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

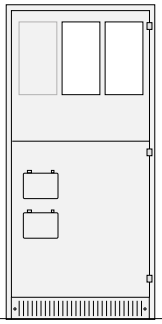
Variable monitoring – anything is possible

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 Module for circuit monitoring	E 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 (mm²)	4	4
Digital potential-free inputs	8–16	8–16

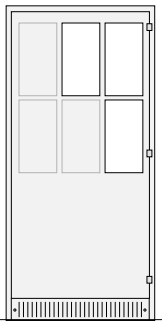
** The maximum numbers are exclusively based on the technical specifications. All locally applicable laws, standards and regulations must be taken into account*

CPS K



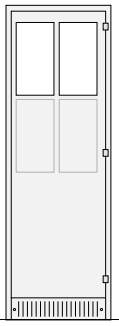
Each of the two bays can be fitted with a module for circuit monitoring or individual monitoring of luminaires.

CPS H 850 mm



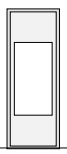
Each of the three bays can be fitted with a sub-distribution board for circuit monitoring or individual monitoring of luminaires.

CPS H 600 mm



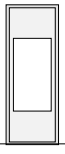
Each of the two bays sections can be fitted with a sub-distribution board for circuit monitoring or individual monitoring of luminaires.

CPS U E60

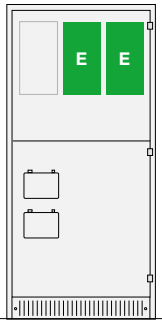


The sub-distribution board can be equipped either for circuit monitoring or individual monitoring of luminaires.

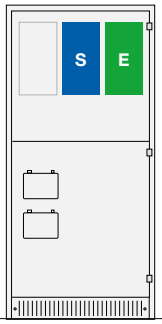
CPS U E00



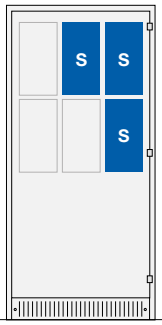
The sub-distribution board can be equipped either for circuit monitoring or individual monitoring of luminaires.



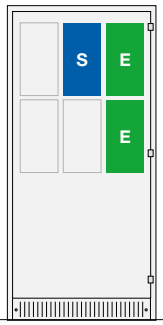
Example
Individual luminaires monitored



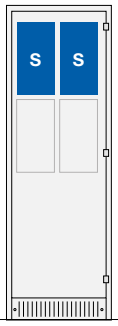
Example
Combination



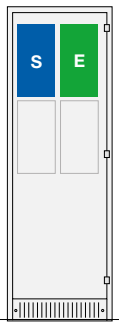
Example
Circuit monitored



Example
Combination



Example
Circuit monitored



Example
Combination

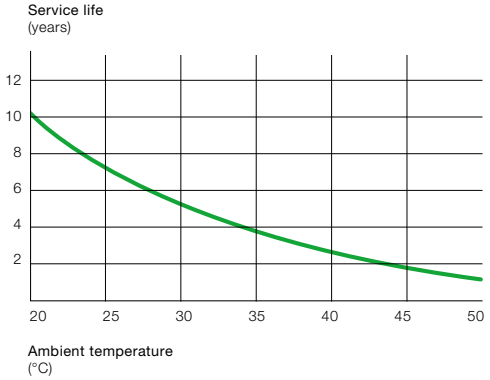
Example
Individual luminaires monitored

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	Capacity (Ah) 25 °C, 1.8 V / Cell			Dimensions	Weight	Terminal
	V	8 h	3 h	1 h	L x B x H mm	kg	
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

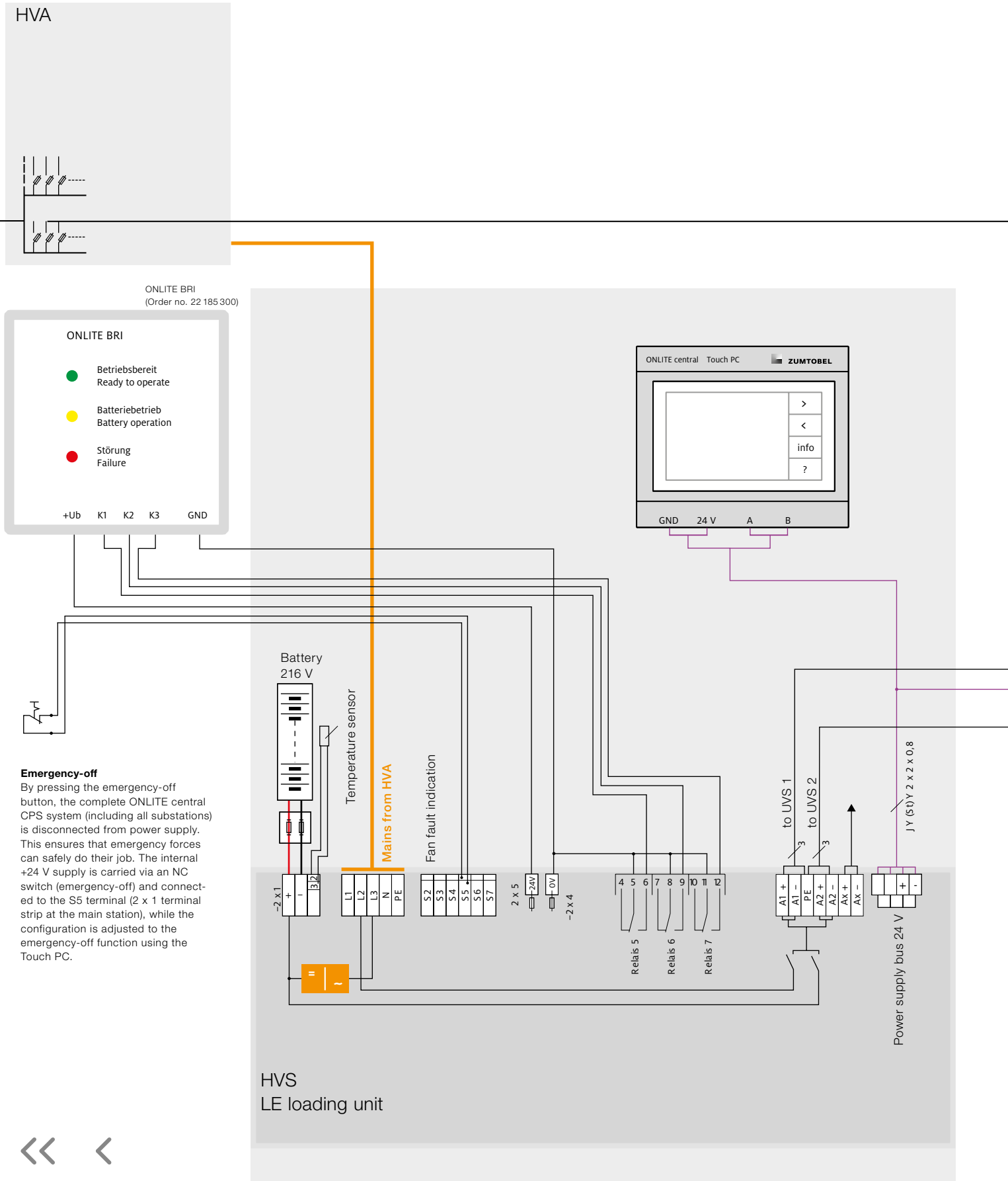
- Grid-type plates with high discharge rate (lead-calcium)
- Absorptive glass mat technology
- Capacity from 7 to 200 Ah in 12 V blocks
- Housing and lid made of ABS
- Recessed battery terminals with brass core, internally screwable
- Conforms to DIN EN 60896-21:2004
- Extremely low gassing
- Low self 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

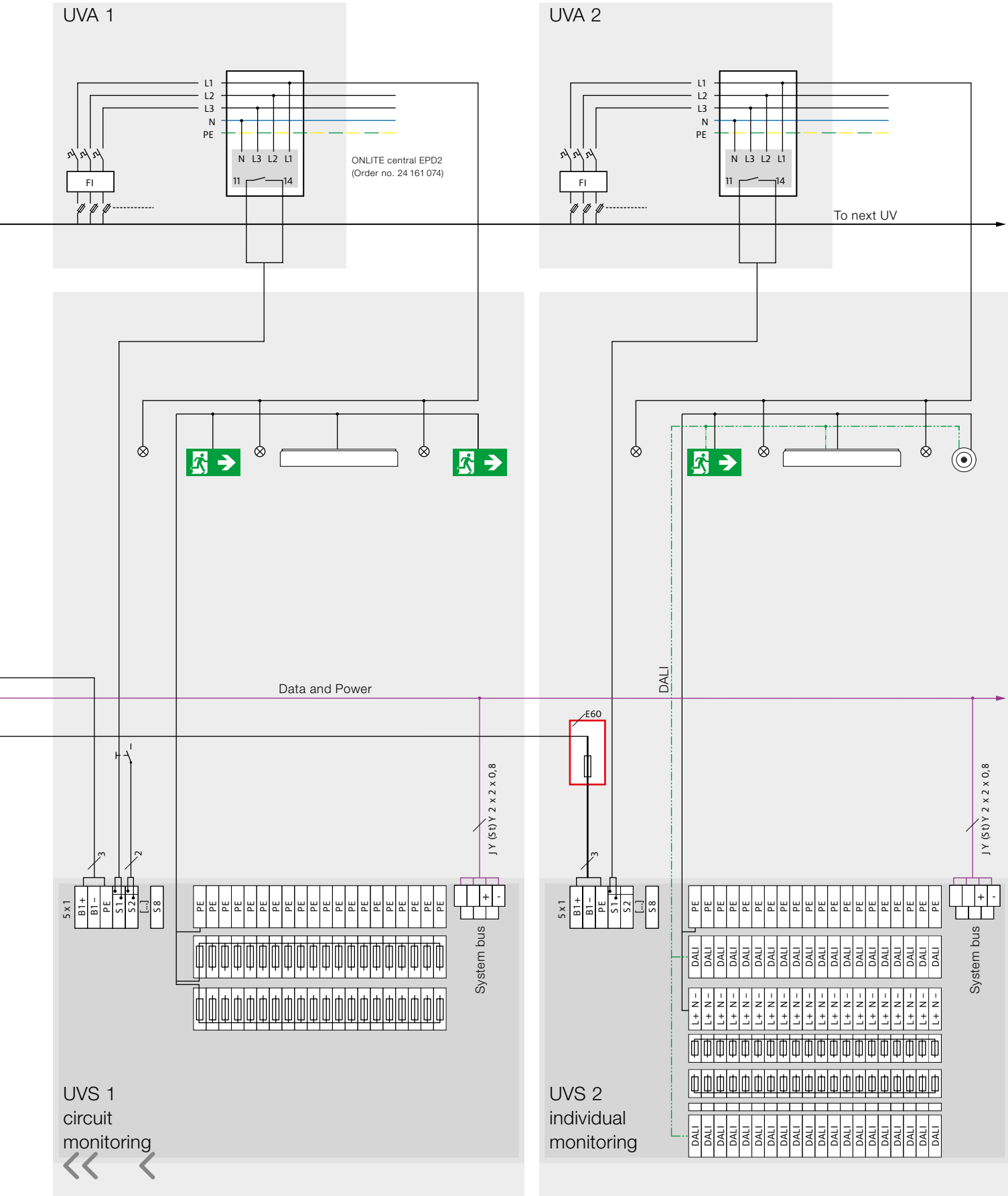
Battery temperature must be maintained between +5 °C min. and +30 °C max. in order to obtain full battery performance. A nominal temperature of 20 °C is ideal. The temperature difference between cells or blocks in a battery bank must not exceed 5 °C.

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

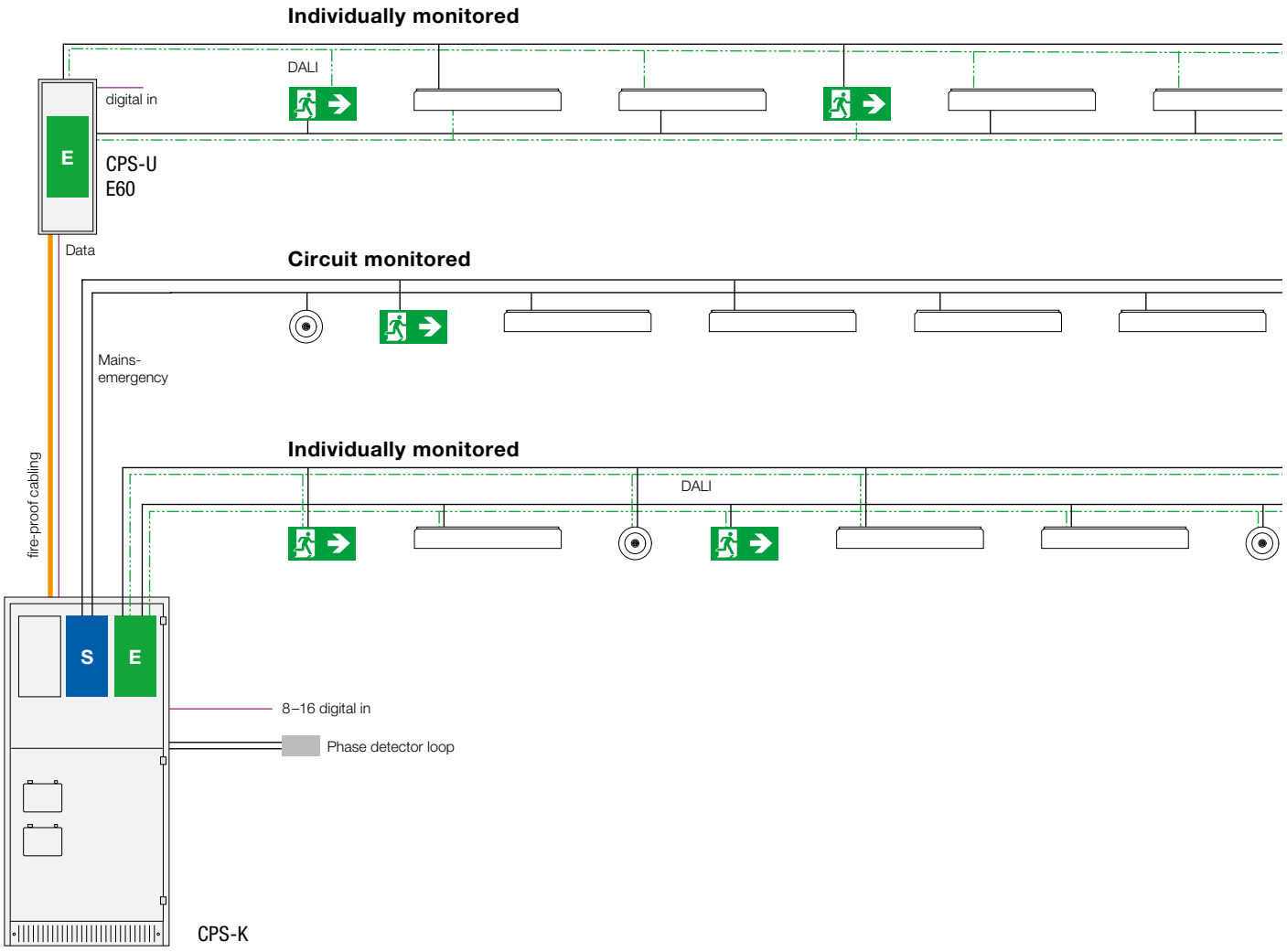


Emergency-off
By pressing the emergency-off button, the complete ONLITE central CPS system (including all substations) is disconnected from power supply. This ensures that emergency forces can safely do their job. The internal +24 V supply is carried via an NC switch (emergency-off) and connected to 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.

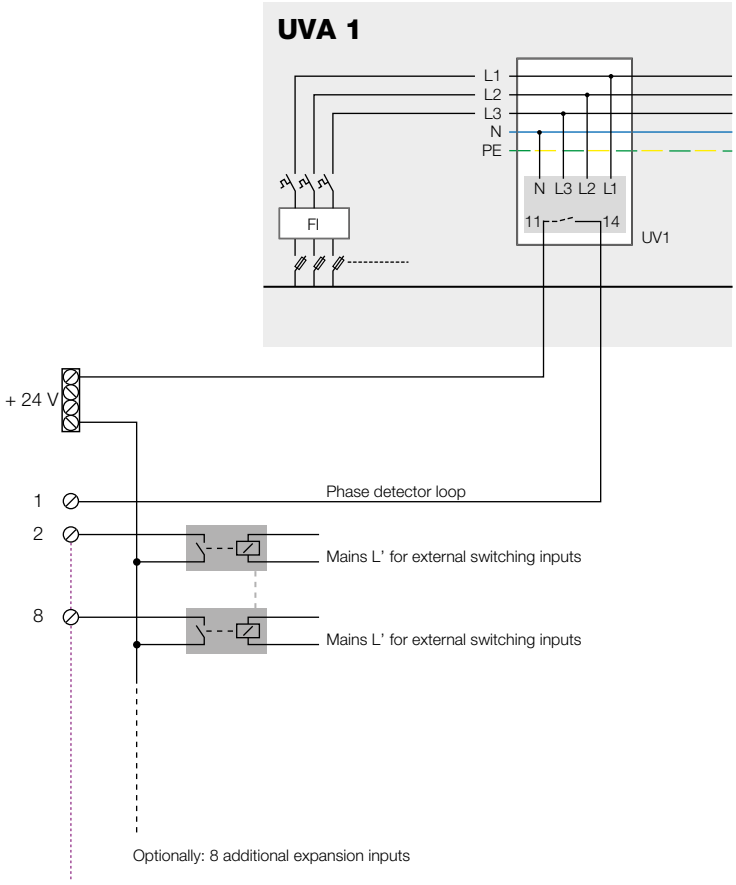

UVA 1
UVA 2
L1
L2
L3
N
PE
FI
N L3 L2 L1
11
14
ONLITE central EPD2
(Order no. 24 161 074)
To next UV
Data and Power
DALI
E60
J Y (St) Y 2 x 2 x 0,8
System bus
5 x 1
B1+
B1–
PE
S1
S2
S8
UVS 1
circuit
monitoring
UVS 2
individual
monitoring

ONLITE central CPS Design tips

Emergency lighting as an isolated solution



Regardless of circuit monitoring or individual monitoring of luminaires, individual emergency and emergency 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.

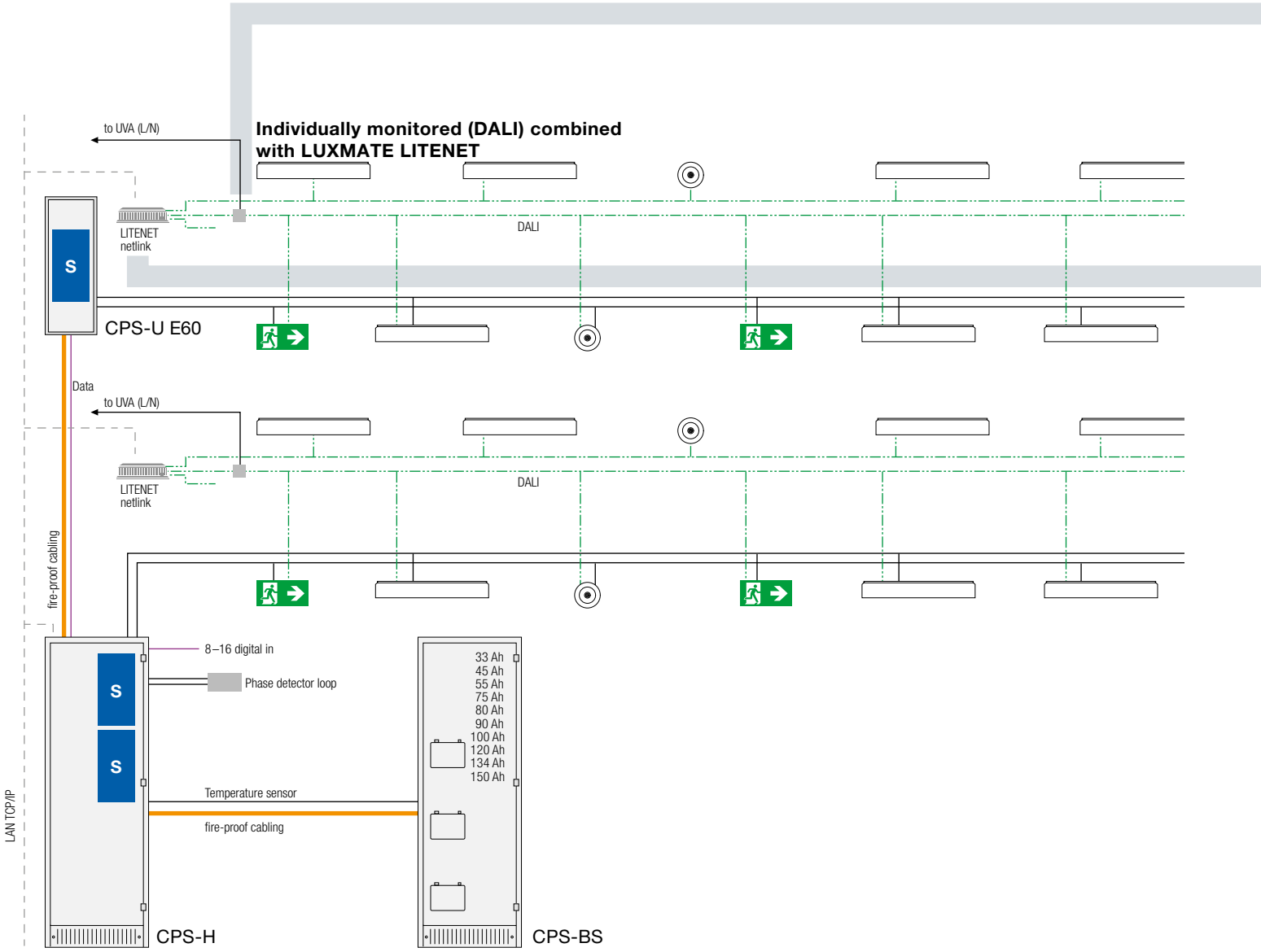


9–16 potential-free digital inputs

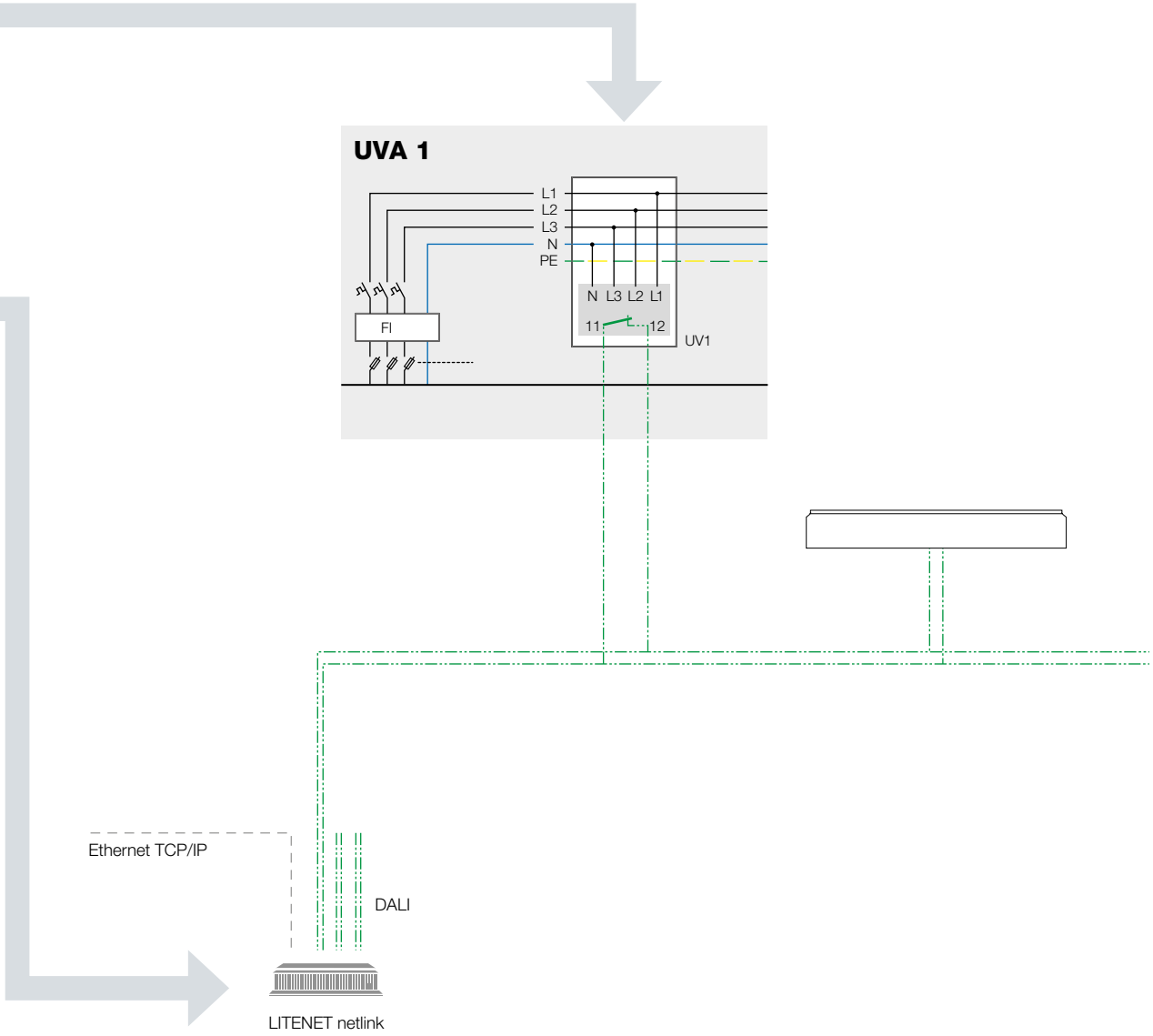
Potential-free inputs
Every ONLITE central CPS main station and substation provides eight digital potential-free inputs as standard. The first input (S1) is designed as a critical circuit and, as a rule, is used for the phase detector loop. Several phase detector loops or other potential-free switching 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 emergency 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

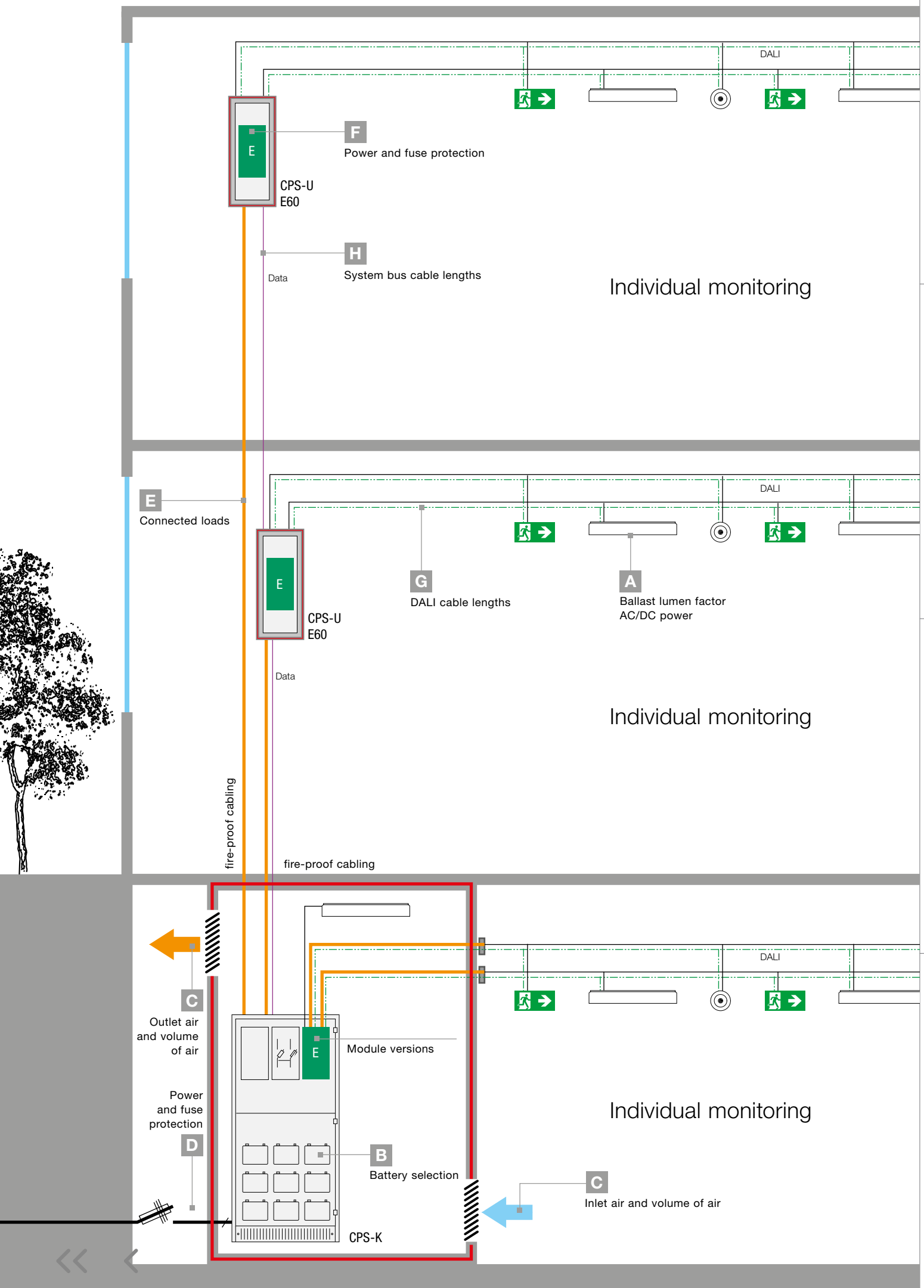
2 Define percentage Ballast Lumen Factor (BLF) as basis for output of each emergency luminaire

3 Plan the locations of emergency sign luminaires

4 Define the circuits in each fire compartment

5 Add up power output (P_{AC} and P_{DC}) of all emergency and emergency sign luminaires for each output circuit

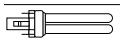
6 Determine battery capacity depending on duration of battery-powered operation


DALI
E
F
Power and fuse protection
CPS-U
E60
H
Data
System bus cable lengths
Individual monitoring
E
Connected loads
DALI
E
G
DALI cable lengths
A
Ballast lumen factor
AC/DC power
CPS-U
E60
Data
Individual monitoring
fire-proof cabling
fire-proof cabling
DALI
C
Outlet air
and volume
of air
E
Module versions
Power
and fuse
protection
D
B
Battery selection
C
Inlet air and volume of air
CPS-K
Individual monitoring

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]	DC [W]	DC [W]	DC [W]	DC [W]	DC [W]	DC [W]	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 lp 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 lp 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 lp xitec II
		2/21W	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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 lp xitec II
	TC-L/F	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
		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 lp 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 lp 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 lp 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 lp 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 lp 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 lp 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 [m³/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 [cm²]	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 Switch-disconnector-fuse [A]	80 Single phase	80 Two phase	80 Three phase	100 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 * [mm²]	4	10	10	16	16	16
Calculation for 100 m cable length * [mm²]	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 Outgoing circuit [A]	3.15	6.30	10.00
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 [mm²]	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 (St) Y		2 x 2 x 0.8 mm
Free topology *	JY (St) Y	2 x 2 x 0.8 mm	

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

ONLITE Components and technology

ONLITE components
LEDs

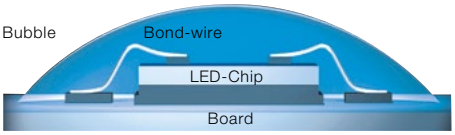
Starting from the bottom of the luminaires, latest-generation LED lighting strips illuminate the emergency signs with maximum uniformity and efficiency.

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 emergency 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 emergency 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 emergency 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.



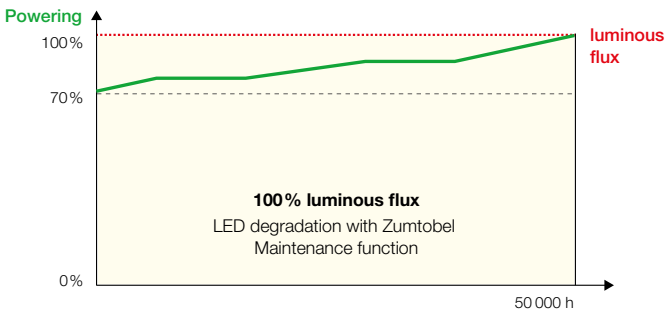
Chip-on-board LED: light distribution is defined by the shape of the bubble.

ONLITE uses efficient LED technology only, and basically saves energy in the first place.

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 emergency 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 emergency sign luminaires.



ONLITE components
Batteries

NiMh batteries
In the case of emergency and emergency 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 emergency sign luminaires.

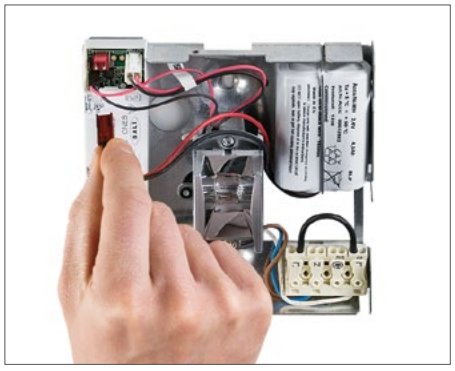
Service life
According to European Standard EN 60598-2-22, all batteries by Zumtobel are designed for a service life of at least four years. Combined with the rugged design of the luminaires, maintenance costs can be kept particularly low.

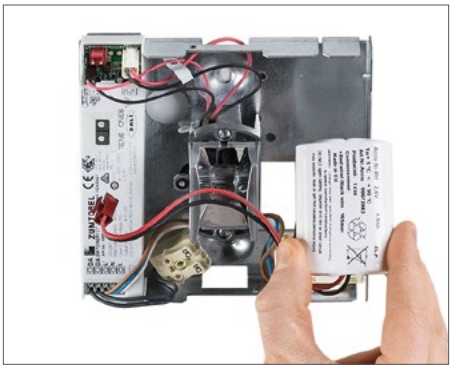
Battery charging
By means of an intelligent charging method, the batteries of the emergency and emergency sign luminaires are charged safely using separate control gear. In the process, charging is geared to maximum efficiency and a long battery service life.

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 at170 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		•				

NiMh battery 1 hour in CROSSIGN housing

NiMh battery 3 hours in CROSSIGN housing

Battery benefits

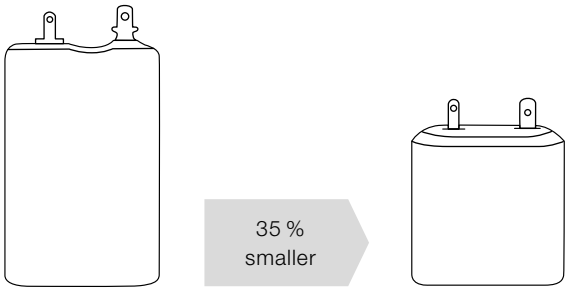
- Excellent charging and discharging efficiency, even at low and high temperatures
- Rugged design
- Sophisticated materials

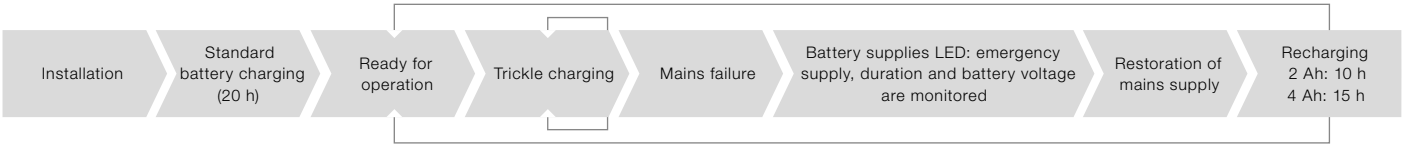
ONLITE components
Batteries

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 emergency 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 Art. no.: 59004661	**NiMh 4.8 V 2.0 Ah** block Art. no.: 59004662	**NiMh 2.4 V 2.0 Ah** tubular Art. no.: 59004662	**NiMh 2.4 V 4.0 Ah** tubular Art. no.: 59004663	**NiMh 2.4 V 4.0 Ah** block, 3 h Art. no.: 59004665	**NiMh 2.4 V 4.0 Ah** block, 3 h Art. no.: 59004666
Capacity	2 Ah			4 Ah		

Emergency luminaires

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

Emergency 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 emergency sign luminaires
** 15-hour charging: NT3 emergency luminaires | NT3 ERI emergency sign luminaires

ONLITE components
Control gear

Example of a
DALI control unit

All ONLITE emergency and emergency 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.

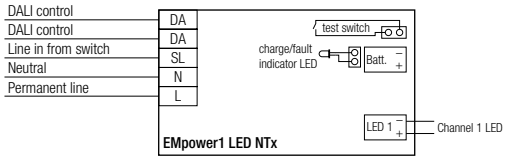
- Wiring: mains (N, L) and DALI (DA)
- Maximum length of cable from control unit to LED: 3 m
- Cross-section of cable (cable to LED depending on type of use): 0.33–1.25 mm^2

NTx

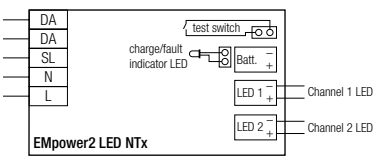
The control unit for emergency sign luminaires with separate-battery supply and 1 hour or 3 hours of back-up time communicates with the SB 128 controller via a DALI interface:

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

Single channel



Twin channel

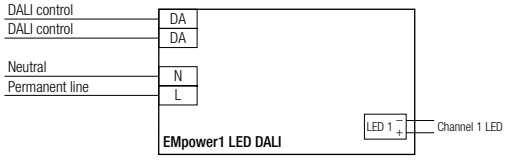


NDA

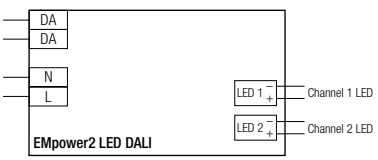
Centrally supplied emergency and emergency sign luminaires with NDA control unit use a DALI interface to communicate with the upgradable ONLITE central eBox and ONLITE central CPS central battery systems:

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

Single channel



Twin channel

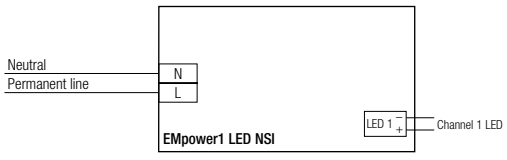


NSI

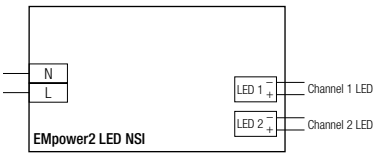
The control unit for centrally supplied emergency and emergency sign luminaires uses a Powerline interface to communicate with the ONLITE central eBox:

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

Single channel



Twin channel

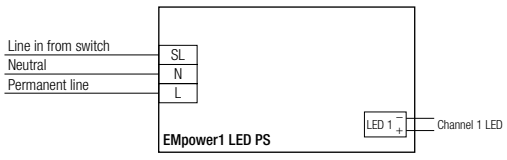


NPS

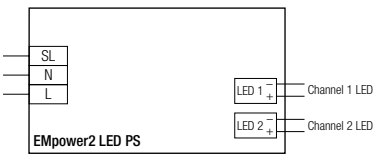
Using this cost-effective control unit for all types of central battery supply, emergency and emergency sign luminaires are monitored via the circuit. The luminaires cannot be monitored and configured individually.

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

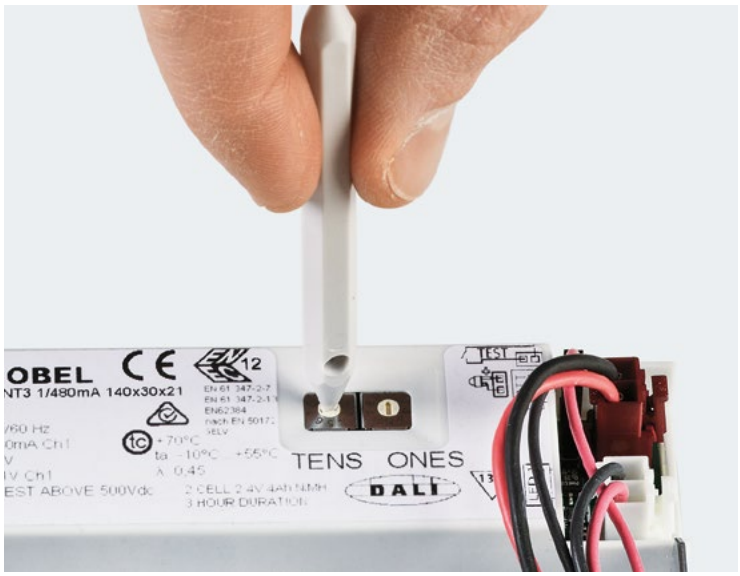
Single channel



Twin channel



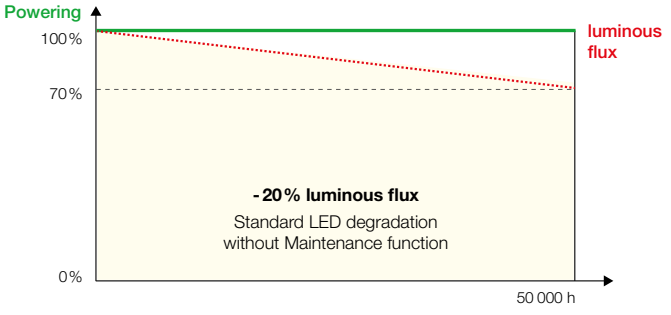
ONLITE components
Addressing of control units

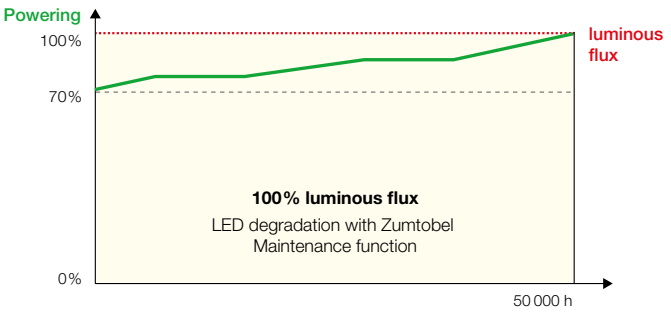


In the case of manual addressing, the dimming level and type of switching are simply set using the pen supplied.

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 emergency 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 emergency 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 emergency 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.

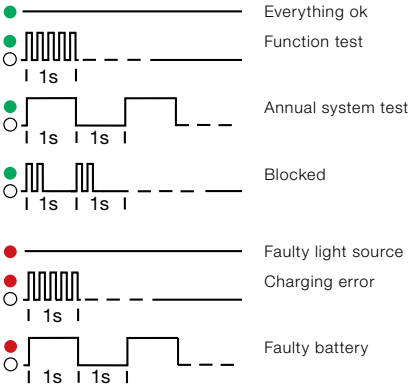
Visual addressing

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

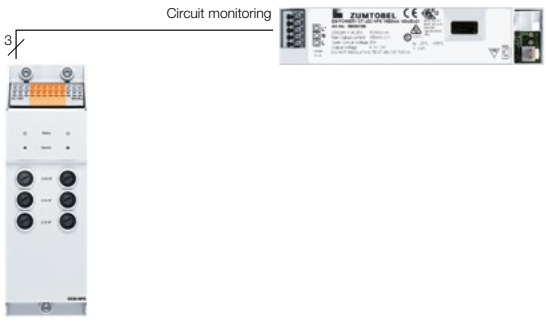
NTx configuration of test starts using test switch
- By pressing the test switch for more than 10 seconds, the timer built into the control unit for the function and annual system tests can be set to any time of the day. This function only works in luminaires without a controller installed.

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)

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 m²	170 m²		
NDA / NSI / NPS					440 m²	220 m²	290 m²	
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 emergency 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.


ONLITE local


ONLITE central eBox


ONLITE central CPS

Emergency 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			•	•				
Emergency 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								
Emergency sign luminaire	•	•	•	•	•	•	•	•
Emergency luminaire			•	•	•			

ONLITE RESCLITE

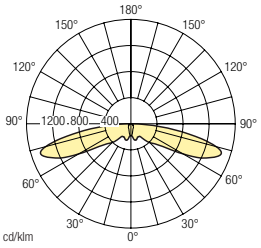
Innovative LED technology is paving the way into a new era of emergency lighting

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.

- 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

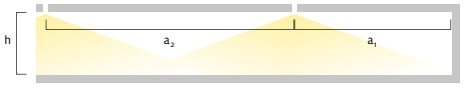
RESCLITE escape high performance

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)					
	1 lx		5 lx		1 fc		1 lx		5 lx		1 fc	
	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

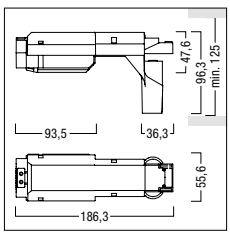
- width of escape route: 2 m
- uniformity greater than 40 : 1
- considered maintenance factor: 0.8
- reflection factors 1 lx, 1fc: 0
- reflection factors 5 lx: taken into account
- glare limitation according to EN 1838 is complied with

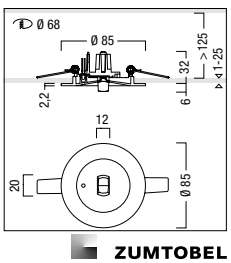
ONLITE RESCLITE escape high performance ED ceiling recessed

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

Order no.

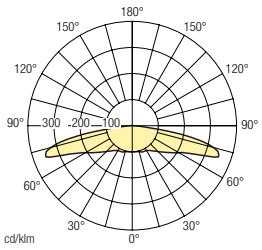
Accessory	
RESCLITE C ESCAPE HP ED NT1 WH	42 182 557
RESCLITE C ESCAPE HP ED NPS WH	42 182 565
RESCLITE C ESCAPE HP ED NSI WH	42 182 563
RESCLITE C ESCAPE HP ED NDA WH	42 182 561
RESCLITE C ESCAPE HP ED NT3 WH	42 182 559





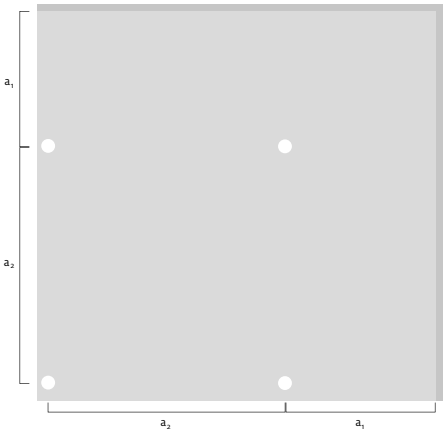
RESCLITE antipanic high performance

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]			
	0,5 lx		2 lx		0,5 lx		2 lx	
	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	-	-



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

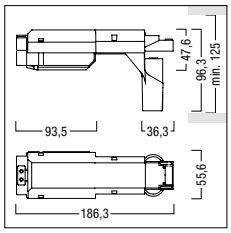
- Rectangular light distribution for perfect illumination of rooms
- uniformity greater than 40 : 1
- considered maintenance factor: 0.8
- reflection factors (0.5 lx): 0
- reflection factors (2 lx): taken into account
- glare limitation according to EN 1838 is complied with

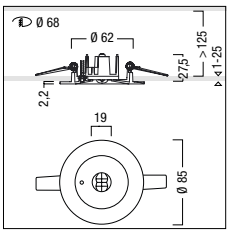
ONLITE RESCLITE antipanic high performance ED ceiling recessed

- |...|
- 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

Order no.

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





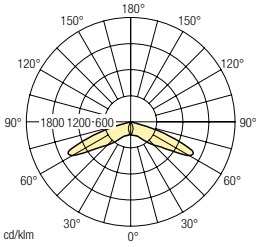
- Large aluminium heat sink ensures optimum thermal management
- Reflectors and lenses made of PC
- Connected load of all RESCLITE types < 5 W; standby power (non-maintained mode) < 1.5 W
- Luminaire pre-wired using halogen-free leads
- LED emergency luminaire for increased illuminance levels to EN 1838
- 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	**IP65**	**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

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

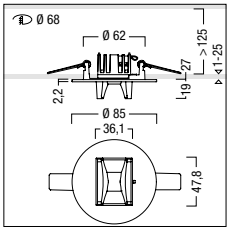
- width of escape route: 2 m
- minimal illuminance on 1 m width: 1 lx
- minimal illuminance on half of escape route width: 0.5 lx
- uniformity greater than 40 : 1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

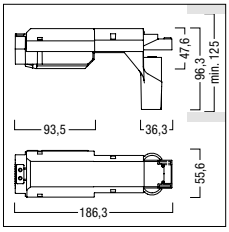
ONLITE RESCLITE escape ED ceiling-recessed

- |...|
- 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)

	Order no.
Self contained with monitoring; white	*electronic*
RESCLITE C ESCAPE ED LED NT1 WH	42 180 394
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	*electronic*
RESCLITE C ESCAPE ED LED NT1 AL	42 180 398
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

IP 20 40 | halogen | 960 °C | incl. LED



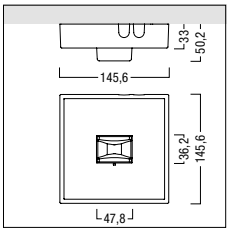


ONLITE RESCLITE escape AD ceiling surface-mount

- |...|
- 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)

	Order no.
Self contained with monitoring; white	*electronic*
RESCLITE C ESCAPE AD LED NT1 WH 1 h	42 180 386
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	*electronic*
RESCLITE C ESCAPE AD LED NT1 AL 1 h	42 180 390
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

IP 40 | halogen | 960 °C | incl. LED

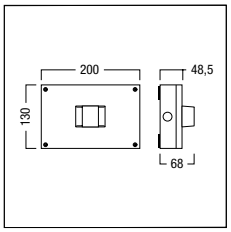


ONLITE RESCLITE escape AD ceiling surface-mount IP65

- |...|
- 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

	Order no.
Self contained with monitoring; white	*electronic*
RESCLITE C ESCAPE AD LED NT1 IP65 WH 1 h	42 180 458
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

IP65 | halogen | 960 °C | incl. LED

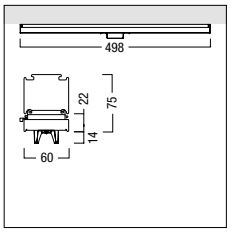


ONLITE RESCLITE escape TEC TECTON continuous-row lighting system

- |...|
- 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
- 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)

	Order no.
Centrally supplied, white	
RESCLITE C ESCAPE TEC-GP LED NDA WH	42 183 107

halogen | 960 °C | incl. LED

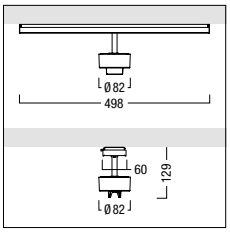


ONLITE RESCLITE escape TEC TECTON H180 continuous-row lighting system

- |...|
- 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)

	Order no.
Self contained with monitoring; white	*electronic*
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

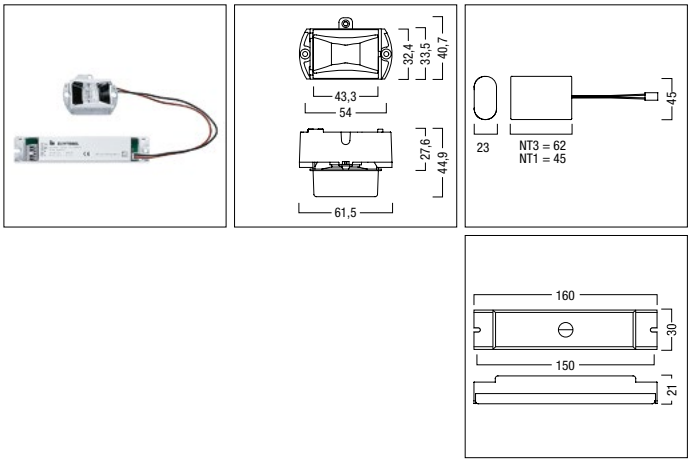
halogen 960 °C incl. LED



- |...|
- 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)

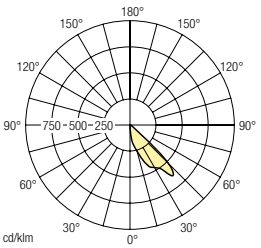
	Order no.
Self contained with monitoring	
RESCLITE C ESCAPE EMERGENCY SET NT1 1 h	22 166 840
RESCLITE C ESCAPE EMERGENCY SET NT3 3 h	22 166 841
Centrally supplied	
RESCLITE C ESCAPE EMERGENCY SET DALI	22 166 843
RESCLITE C ESCAPE EMERGENCY SET NSI	22 166 842

halogen 960 °C incl. LED



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]		Luminaire / luminaire max. distance [m]	
	IP40	IP65	IP40	IP65
	NT1 / NT3 / Nxx	NT1 / NT3 / Nxx	NT1 / NT3 / Nxx	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

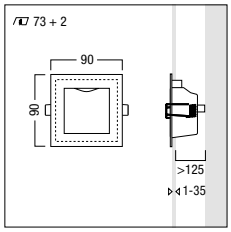
- width of wall route: 2 m
- minimal illuminance on 1 m width: 1 lx
- minimal illuminance on half of wall route width: 0.5 lx
- uniformity greater than 40 : 1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

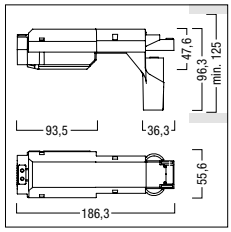
ONLITE RESCLITE wall EW wall-recessed

- |...|
- 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	*electronic*
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	*electronic*
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

IP 20 40 | halogen | 960 °C | incl. LED

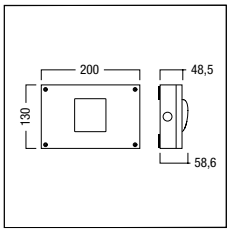




ONLITE RESCLITE wall AW wall surface-mount IP65

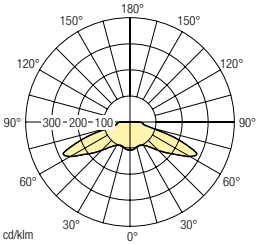
- |...|
- LED emergency luminaire for escape route illumination to EN 1838
- Suitable for ceiling heights 2.5 to 6 m
- IP65 housing made of die-cast aluminium in white powder-coated finish, RAL 9016
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- NT1 and 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

	Order no.
Self contained with monitoring; white	*electronic*
RESCLITE C WALL AW LED NT1 IP65 WH 1 h	42 180 462
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



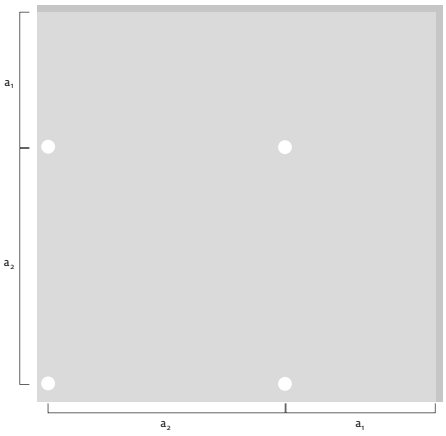
RESCLITE antipanic

LED emergency luminaire for antipanic lighting according to EN 1838



Luminaire spacings for antipanic lighting in conformit y with relevant standards

Mounting height [m]	Wall / luminaire max. distance [m]		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



- 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

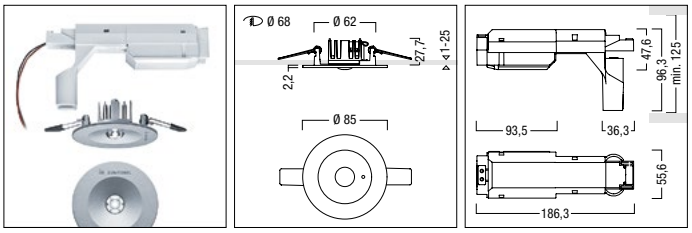
NT1: Self contained emergency power supply for 1 hour
NT3: Self contained emergency power supply for 3 hours
Nxx: NDA. NSI. NPS central battery

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)

	Order no.
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

IP 20 40 · halogen · 960 °C · incl. LED

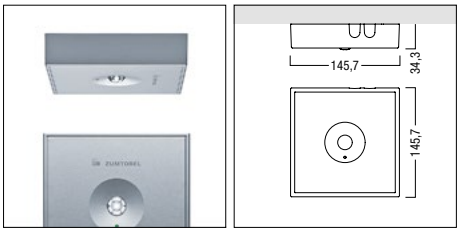


ONLITE RESCLITE antipanic AD ceiling surface-mount

- |...|
- 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)

	Order no.
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

IP 40 · halogen · 960 °C · incl. LED

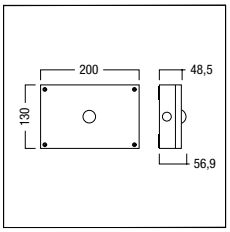


ONLITE RESCLITE antipanic AD ceiling surface-mount IP65

- |...|
- 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

	Order no.
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

IP65 | halogen | 960 °C | incl. LED

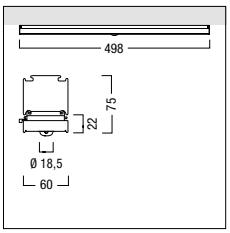


ONLITE RESCLITE antipanic TEC TECTON continuous-row luminaire system

- |...|
- 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)

	Order no.
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

halogen | 960 °C | incl. LED

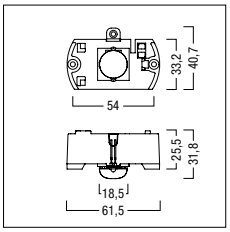


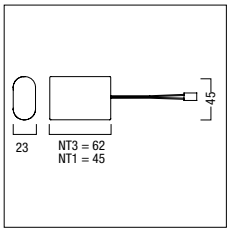
ONLITE RESCLITE antipanic recessed kit

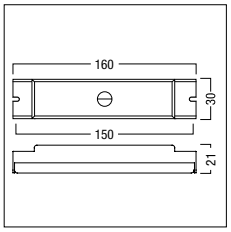
- |...|
- Kit for installing in standard luminaires
- LED emergency luminaire for antipanic lighting to EN 1838
- Suitable for ceiling heights 2.2 to 9 m
- NSI/NPS/NDA mains supply: 220/240 V AC/DC 50/60 Hz
- Mains supply NT: 220/240 V AC 50/60 Hz
- Plug-in terminals for through-wiring, max. 2.5 mm²
- 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)

	Order no.
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

halogen 960 °C incl. LED



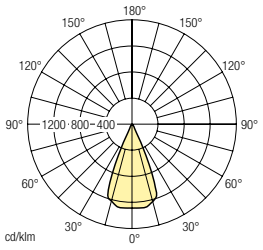




- Large aluminium heat sink ensures optimum thermal management
- Reflectors and lenses made of PC
- Connected load of all RESCLITE types < 5 W; standby power (non-maintained mode) < 1.5 W
- Luminaire pre-wired using halogen-free leads
- LED emergency luminaire for increased illuminance levels to EN 1838
- 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

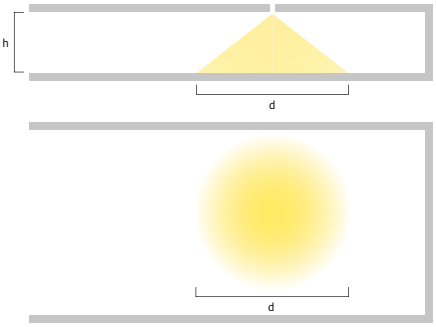
RESCLITE spot

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

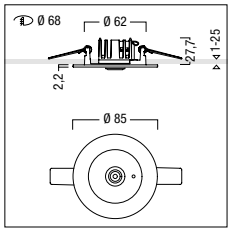
- rotationally symmetrical distribution
- minimal illuminance: 5 lx
- uniformity greater than 40 : 1
- considered maintenance factor: 0.8
- reflection factors: 0
- glare limitation according to EN 1838 is complied with

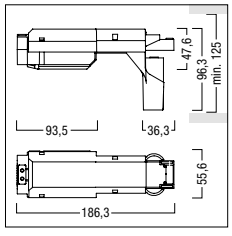
ONLITE RESCLITE spot ED ceiling-recessed

- |...|
- 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)

	Order no.
Self contained with monitoring; white	*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

IP 20 / 40 · halogen · 960 °C · incl. LED



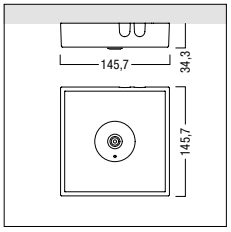


ONLITE RESCLITE spot AD ceiling surface-mount

- |...|
- 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

IP40 halogen 960 °C incl. LED

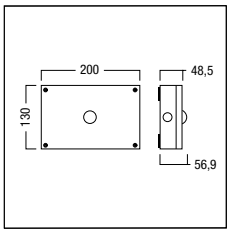


ONLITE RESCLITE spot AD ceiling surface-mount IP65

- |...|
- 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

IP65 halogen 960 °C incl. LED

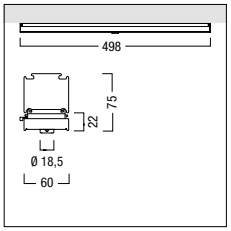


ONLITE RESCLITE spot TEC TECTON continuous-row lighting system

- |...|
- 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

halogen 960 °C incl. LED

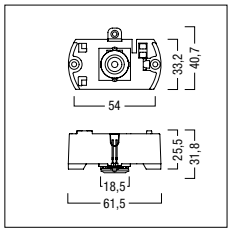


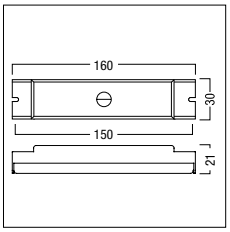
ONLITE RESCLITE spot recessed set

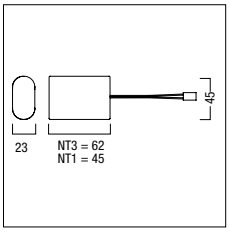
- |...|
- Kit for installing in standard luminaires

	Order no.
Self contained with monitoring	*electronic*
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

halogen 960 °C incl. LED





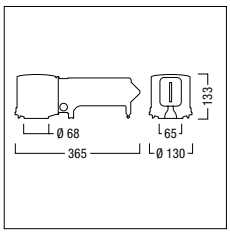


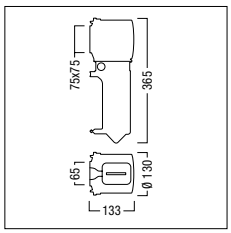
ONLITE RESCLITE installation accessories

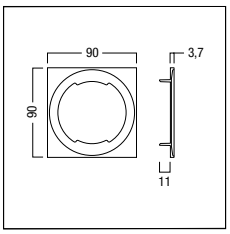
- Concrete casting surround for installing RESCLITE ED/EW in concrete ceilings/walls
- Die-cast aluminium in powder-coated finish
- Includes transformer tunnel for housing the gearbox
- Includes front section
- For use in ceilings/walls of thickness 160 mm and above
- Square trim for fitting to RESCLITE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





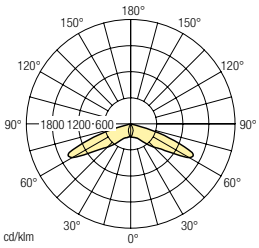


|...| Shared properties ONLITE RESCLITE HC

- 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 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

- 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

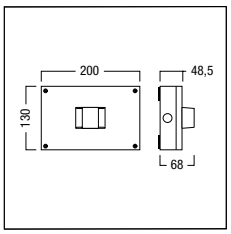
- |...|
- Suitable for high ceilings of height 7 to 23 m
- Cable entry from the rear or the side
- PG cable glands can be used

Order no.

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

IP65 halogen 960 °C incl. LED



ONLITE RESCLITE escape high ceilings TEC TECTON

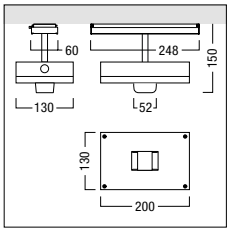
- |...|
- Suitable for high ceilings of height 7 to 23 m
- Can be fitted without tools to the TECTON continuous-row lighting system; optic can be rotated and locked in position
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Roll-formed sheet steel with white polyester resin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

Order no.

Centrally supplied, white

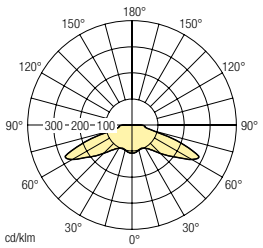
RESCLITE C ESCAPE HC TEC-GP NDA IP65 WH	42 183 124
RESCLITE C ESCAPE HC TEC-GP NPS IP65 WH electronic	42 183 126
RESCLITE C ESCAPE HC TEC-GP NSI IP65 WH	42 183 125

halogen 960 °C incl. LED



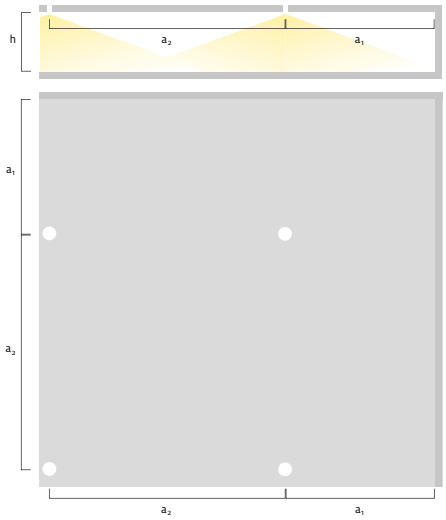
RESCLITE antipanic high ceilings

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

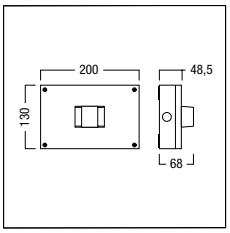
- |...|
- Suitable for high ceilings of height 9 to 30 m
- Cable entry from the rear or the side
- PG cable glands can be used

Order no.

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

IP65 halogen 960 °C incl. LED



ONLITE RESCLITE anti-panic high ceilings TEC TECTON

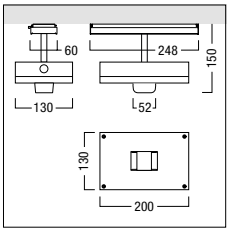
- |...|
- Suitable for high ceilings of height 9 to 30 m
- Can be fitted without tools to the TECTON continuous-row lighting system; optic can be rotated and locked in position
- Phase selection for 3 phase circuits and 2 emergency lighting circuits
- Roll-formed sheet steel with white polyester resin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

Order no.

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

halogen 960 °C incl. LED



ONLITE RESCLITE high ceilings installation accessories

Order no.

Accessory

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

ONLITE PURESIGN 150

product
design award

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.

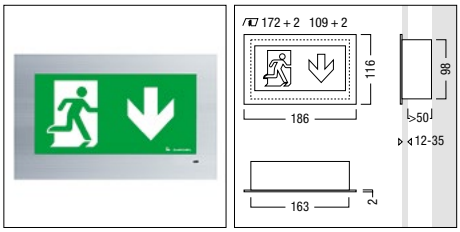
ONLITE ARTSIGN EW wall recessed

- 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 emergency 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

	Order no.
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 emergency signs separately

IP 20 40 · halogen · 850 °C · incl. LED

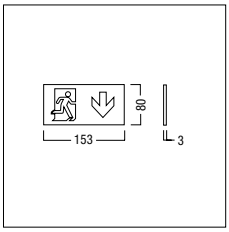


ONLITE ARTSIGN EW emergency sign RZ

- Panel made of diffuser pearl material with printed emergency 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

	Order no.
Emergency sign	
ARTSIGN C EW RZ-1L left arrow	22 166 893
ARTSIGN C EW RZ-10 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

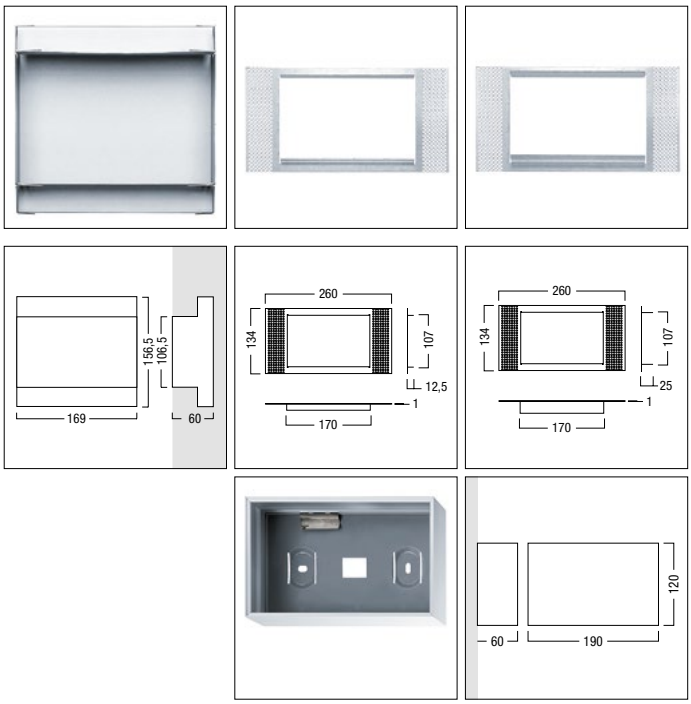
DIN 4844 500 cd/m² · 15 m EN 1838



ONLITE ARTSIGN EW installation accessories

- 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 emergency 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

	Order no.
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

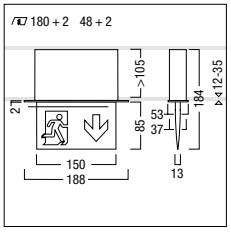


ONLITE ARTSIGN ED ceiling recessed RZ

- 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 emergency sign printed on one or both sides
- Single-sided emergency 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

	Order no.
Self contained with monitoring	*electronic*
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
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

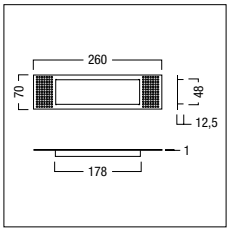
IP 20 40 | halogen | DIN 4844 500 cd/m² | 15 m EN 1838 | 850 °C | incl. LED

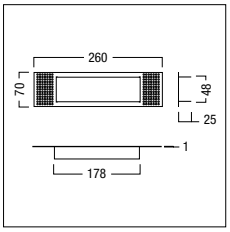


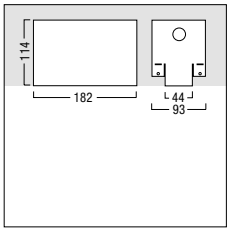
ONLITE ARTSIGN ED installation accessories

- 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 emergency 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

	Order no.
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







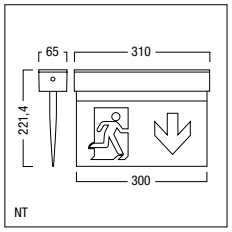
ONLITE COMSIGN150 AD ceiling surface-mount

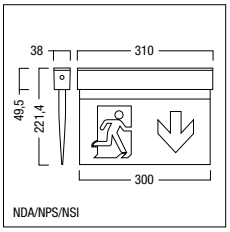
- Two-piece surface-mount housing made of die cast aluminium to fit COMSIGN 150 and PURESIGN 150
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and emergency sign
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- 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

	Order no.
Self contained with monitoring	*electronic*
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 emergency signs separately (including LED and aluminium cover).

halogen 850 °C incl. LED

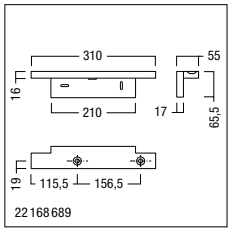


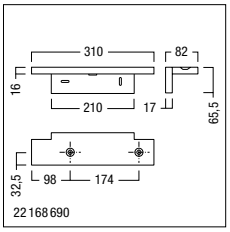


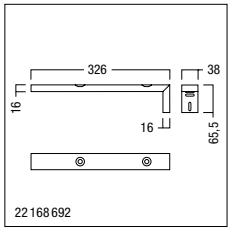
ONLITE COMSIGN 150 installation accessories

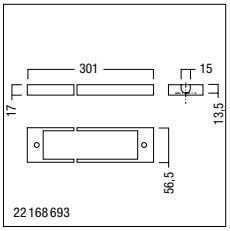
- 90° bracket made of sheet steel, powder-coated silver, similar to RAL 7035
- Cable duct concealed in mounting bracket
- Extension frame for side cable feed

	Order no.
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









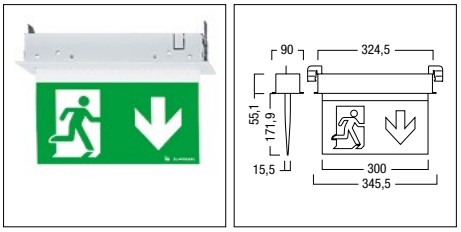
ONLITE COMSIGN 150 ED ceiling-recessed

- 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

	Order no.
Self contained with monitoring	*electronic*
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

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

IP 20 40 | halogen | 850 °C | incl. LED

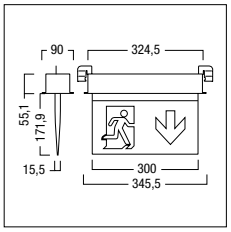


ONLITE COMSIGN 150 AD/ED emergency sign RZ

- 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 emergency sign is printed white on rear
- Emergency sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Emergency sign 2Rx-LR, left or right direction by rotating luminaire

	Order no.
Emergency 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

DIN 4844 500 cd/m² | 30m EN1838 | 850 °C | incl. LED



- 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

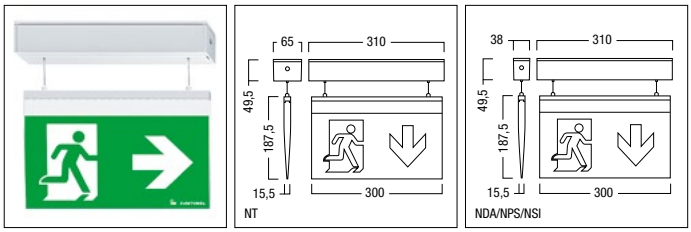
ONLITE COMSIGN 150 ASI surface-mount, cord

- |...|
- 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 emergency sign
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out

	Order no.
Self contained with monitoring	*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 emergency signs separately (including LED and aluminium cover).

IP 40 | halogen | 850 °C | incl. LED



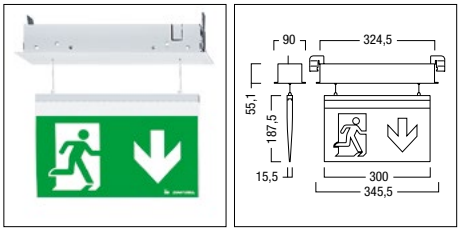
ONLITE COMSIGN 150 ESI recessed, cord

- |...|
- 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

	Order no.
Self contained with monitoring	*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 emergency signs separately (including LED and aluminium cover).

IP 20 40 | halogen | 850 °C | incl. LED



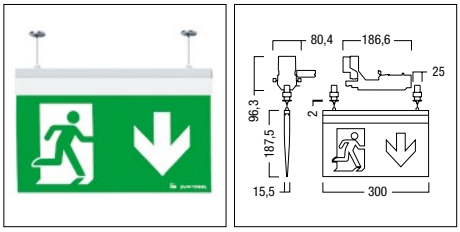
ONLITE COMSIGN 150 RSI remote, cord

- |...|
- Polycarbonate gearbox for installation in ceiling recess in modular ceilings
- Connecting lead between emergency 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

	Order no.
Self contained with monitoring	*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 emergency signs separately (including LED and aluminium cover).

IP 20 40 | halogen | 850 °C | incl. LED

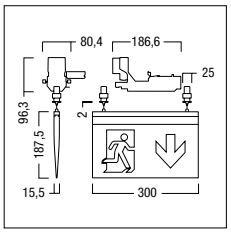


ONLITE COMSIGN 150 ASI/ESI/RSI emergency sign RZ

- 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 emergency sign is printed white on rear
- Emergency sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Fitted to base unit without tools via insulated steel cord
- Emergency sign 2Rx-LR, left or right direction by rotating luminaire

Emergency sign	Order no.
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

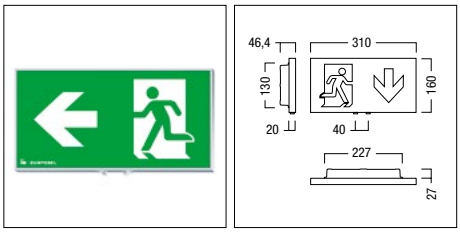
ONLITE PURESIGN 150 AW ERI surface-mount, wall

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

	Order no.
Self contained with monitoring	*electronic*
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 emergency signs separately (including LED and aluminium frame).

halogen 850 °C incl. LED



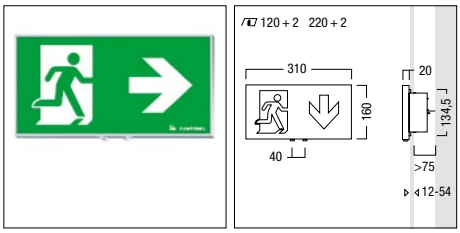
ONLITE PURESIGN 150 EW ERI recessed, wall

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

	Order no.
Self contained with monitoring	*electronic*
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

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

IP 20 40 halogen 850 °C incl. LED

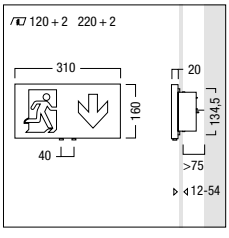


ONLITE PURESIGN 150 AW/EW ERI emergency sign RZ

- 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
- Emergency sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Tool-free installation on base unit

	Order no.
Emergency sign	
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

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



|...| 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

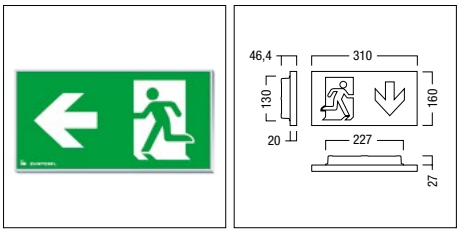
ONLITE PURESIGN 150 AW surface-mount, wall

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

	Order no.
Self contained with monitoring	*electronic*
PURESIGN 150 AW NT1 1 h	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 emergency signs separately (including LED and aluminium frame).

halogen 850 °C ind. LED



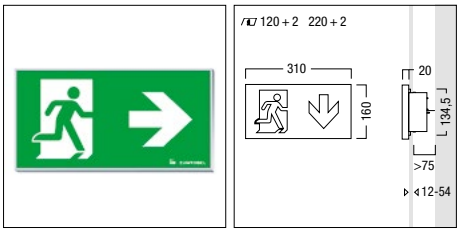
ONLITE PURESIGN 150 EW surface-mount, wall

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

	Order no.
Self contained with monitoring	*electronic*
PURESIGN 150 EW NT1 1 h	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 emergency signs separately (including LED and aluminium frame).

IP 20 40 halogen 850 °C ind. LED

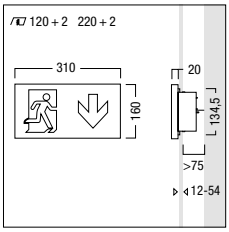


ONLITE PURESIGN 150 AW/EW emergency sign RZ

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

Emergency sign	Order no.
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



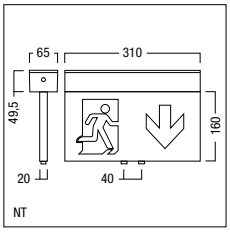
ONLITE PURESIGN 150 AD ERI ceiling surface-mount

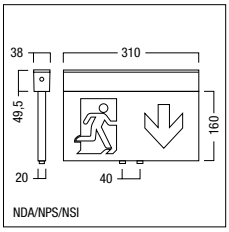
- Two-piece surface-mount housing made of die-cast aluminium designed to fit PURESIGN 150 ERI
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and emergency sign
- Plug-in terminals for 2.5 mm² conductors; 1.5 mm² for loop-in/loop-out
- 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	Order no. *electronic*
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 emergency signs separately (including LED and aluminium frame).

halogen | 850 °C | incl. LED

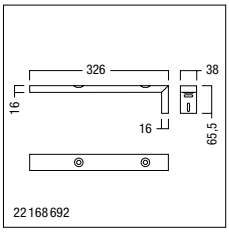


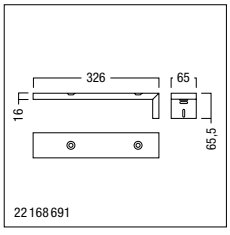


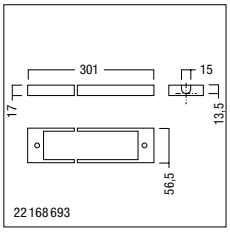
ONLITE PURESIGN 150 AD installation accessories

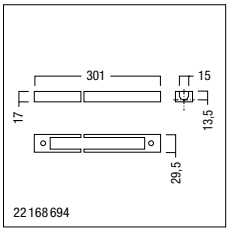
- 90° bracket made of sheet steel, powder-coated silver, similar to RAL 7035
- Cable duct concealed in mounting bracket
- Extension frame for side cable feed

Accessory	Order no.
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









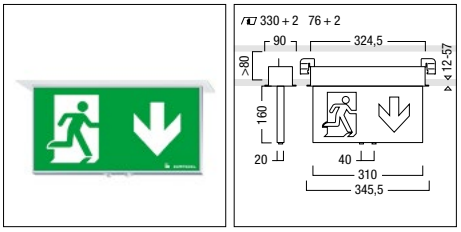
ONLITE PURESIGN 150 ED ERI ceiling-recessed

- Ceiling-recessed housing made of white powder-coated sheet steel for PURESIGN 150 ERI
- Extremely easy to install using leveling kit
- 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)
- 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

	Order no.
Self contained with monitoring	*electronic*
PURESIGN 150 ED NT1 ERI 1 h	42 180 922
PURESIGN 150 ED NT3 ERI 3 h	42 180 923
Centrally supplied	
PURESIGN 150 ED NDA ERI	42 180 925
PURESIGN 150 ED NSI ERI	42 180 924
Accessory	
PURESIGN/COMSIGN 150 ED GEH BETON Concrete casting surround	22 168 778

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

IP 20 40 | halogen | 850 °C | incl. LED

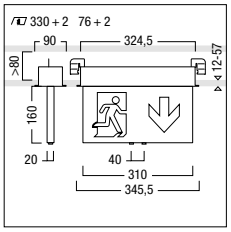


ONLITE PURESIGN 150 AD/ED ERI emergency sign RZ

- 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
- Emergency sign symbol backlit by LEDs
- Luminance > 500 cd/m² in white area
- Fits easily onto base unit
- Emergency sign 2Rx-LR, left or right direction by rotating luminaire

	Order no.
Emergency sign	
PURESIGN 150 AD/ED RZ-1L ERI 1x left arrow, 1x white unprinted	22 168 669
PURESIGN 150 AD/ED RZ-1LO ERI 1x pointing left up, 1x white unprinted	22 900 424
PURESIGN 150 AD/ED RZ-1LU ERI 1x pointing left down, 1x white unprinted	22 900 425
PURESIGN 150 AD/ED RZ-1O ERI 1x pointing up, 1x white unprinted	22 900 420
PURESIGN 150 AD/ED RZ-1R ERI 1x right arrow, 1x white unprinted	22 168 670
PURESIGN 150 AD/ED RZ-1RO ERI 1x pointing right up, 1x white unprinted	22 900 422
PURESIGN 150 AD/ED RZ-1RU ERI 1x pointing right down, 1x white unprinted	22 900 423
PURESIGN 150 AD/ED RZ-1U ERI 1x down arrow, 1x white unprinted	22 168 671
PURESIGN 150 AD/ED RZ-2LR ERI 2x right/left arrows	22 168 672
PURESIGN 150 AD/ED RZ-2LRO ERI 1x pointing left up, 1x pointing right up	22 900 426
PURESIGN 150 AD/ED RZ-2LRU ERI 1x pointing left down, 1x pointing right down	22 900 427
PURESIGN 150 AD/ED RZ-2O ERI 2x pointing up	22 900 421
PURESIGN 150 AD/ED RZ-2U ERI 2x down arrows	22 168 673

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



- 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 AD ceiling surface-mount

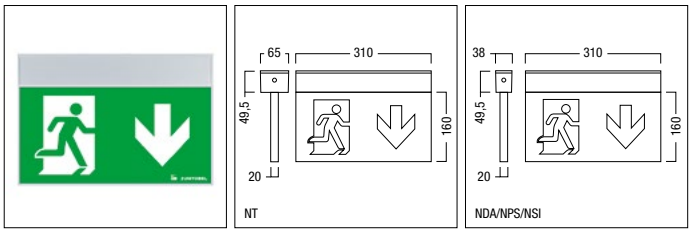
- |...|
- Two-piece surface-mount housing made of die cast aluminium to fit COMSIGN 150 and PURESIGN 150
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and emergency sign

Order no.

Self contained with monitoring	*electronic*
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 emergency signs separately (including LED and aluminium frame).

halogen 850 °C incl. LED



ONLITE PURESIGN 150 ED ceiling-recessed

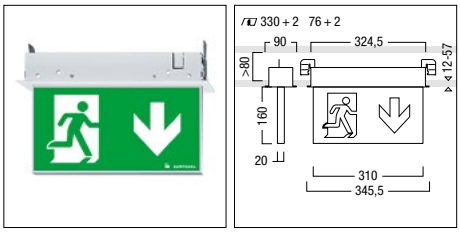
- |...|
- Sheet-steel recessed housing in silver powder-coated finish, similar to RAL 7035
- Ultra-simple to fit using level-adjustment kit (included) designed for COMSIGN 150 and PURESIGN 150
- Extruded aluminium cover in powder-coated silver-look finish

Order no.

Self contained with monitoring	*electronic*
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

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

IP 20 40 halogen 850 °C incl. LED

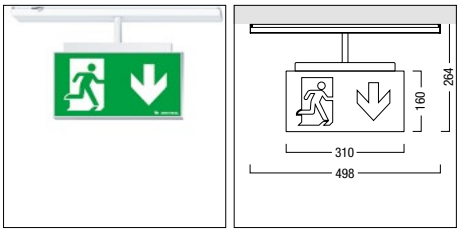


ONLITE PURESIGN 150 TEC TECTON continuous-row lighting system

- 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

	Order no.
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

halogen 850 °C



ONLITE PURESIGN 150 AD/ED/TEC emergency sign RZ

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

	Order no.
Emergency 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

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

|...| 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

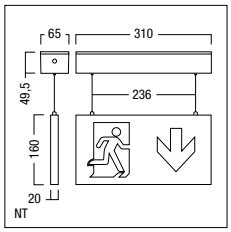
ONLITE PURESIGN 150 ASI surface-mount, cord

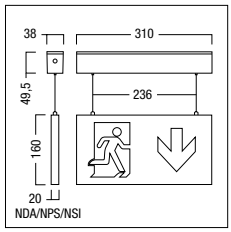
- |...|
- Two-piece surface-mount housing made of die-cast aluminium designed to fit pictograms with cord suspension from COMSIGN 150 and PURESIGN 150 range
- Luminaire housing of diecast aluminium, powder-coated silver, similar to RAL 7035
- Simple screw-fitting for luminaire and emergency sign
- Plug-in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

	Order no.
Self contained with monitoring	*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 emergency signs separately (including LED and aluminium frame).

IP 40 | halogen | 850 °C | incl. LED





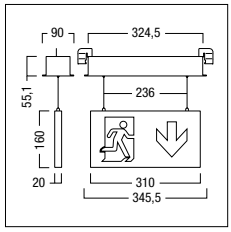
ONLITE PURESIGN 150 ESI recessed, cord

- |...|
- 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

	Order no.
Self contained with monitoring	*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 emergency signs separately (including LED and aluminium frame).

IP 20 40 | halogen | 850 °C | incl. LED



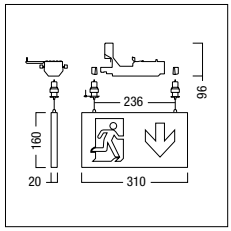
ONLITE PURESIGN 150 RSI remote, cord

- |...|
- Polycarbonate gearbox for installation in ceiling recess in modular ceilings
- Connecting lead between emergency 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

	Order no.
Self contained with monitoring	*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 emergency signs separately (including LED and aluminium frame).

IP 20 40 | halogen | 850 °C | incl. LED



ONLITE PURESIGN 150 ASI/ESI/RSI emergency sign RZ

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

Emergency sign	Order no.
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/m² | 30m EN 1838 | 850 °C | incl. LED

|...| 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

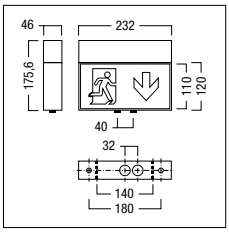
ONLITE CROSSIGN 110 AB ERI surface-mount

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

	Order no.
Self contained with monitoring	*electronic*
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 emergency signs separately.

IK04 halogen 850 °C incl. LED



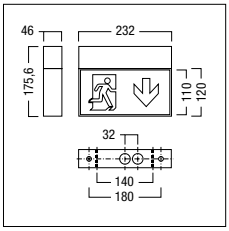
ONLITE CROSSIGN 110 AB surface-mount

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

	Order no.
Self contained with monitoring	*electronic*
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 emergency signs separately.

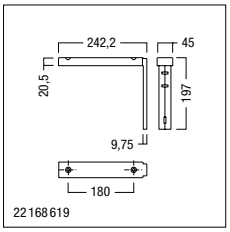
IK04 halogen 850 °C incl. LED

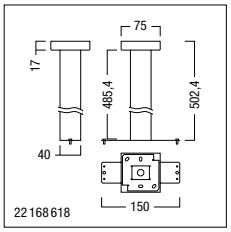


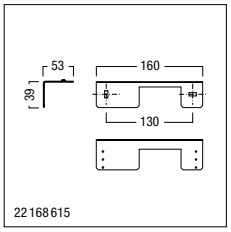
ONLITE CROSSIGN 110 AB installation accessories

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

Accessory	Order no.
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







- 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
- 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

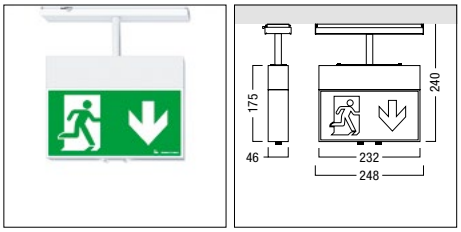
- |...|
- ERI (Escape Route Illumination) using two rotatable LED spots as versatile emergency lighting
- Installed load: NT1 (4.5 W), NT3 (5.2 W)

Order no.

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 emergency signs separately.

halogen 850 °C incl. LED



ONLITE CROSSIGN 110 TEC TECTON continuous-row lighting system

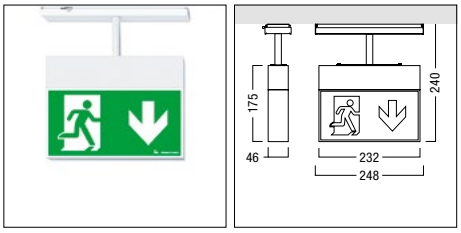
- |...|
- Power consumption: NT1 (4.5 W), NT3 (4.5 W)

Order no.

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 emergency signs separately.

halogen 850 °C incl. LED

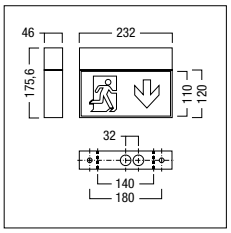


ONLITE CROSSIGN 110 AB/TEC emergency sign RZ

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

Emergency sign	Order no.
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



- 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)

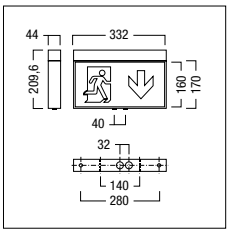
ONLITE CROSSIGN 160 AB ERI surface-mount

- |...|
- 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)

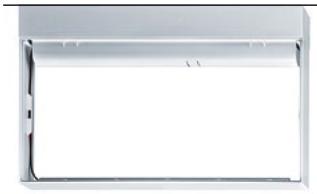
	Order no.
Centrally supplied	
CROSSIGN 160 AB LED NDA ERI	42 180 796
CROSSIGN 160 AB LED NDA ERI	42 181 391
CROSSIGN 160 AB LED NSI ERI	42 180 795
CROSSIGN 160 AB LED NSI ERI	42 181 390
Self contained with monitoring	*electronic*
CROSSIGN 160 AB LED NT1 ERI 1 h electronic	42 180 793
CROSSIGN 160 AB LED 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 emergency signs separately.

IK04 IP54 IP42 halogen 850 °C incl. LED



ONLITE CROSSIGN 160 AB surface-mount

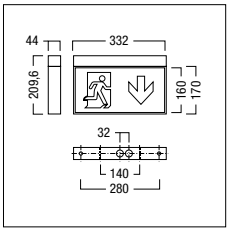


- |...|
- Installed load: NT1 (5.8 W), NT3 (5.8 W)
- Power consumption::NSI (6 W), NDA (5.5 W), NPS (5.5 W)
- NPS: standard 230 V AC/DC 50/60 Hz compatible driver without monitoring

	Order no.
Centrally supplied	*electronic*
CROSSIGN 160 AB LED NDA	42 181 386
CROSSIGN 160 AB LED NPS	42 181 387
CROSSIGN 160 AB LED NSI	42 181 385
Self contained with monitoring	*electronic*
CROSSIGN 160 AB LED NT1 1 h electronic	42 180 768
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 emergency signs separately (including LED and aluminium cover).

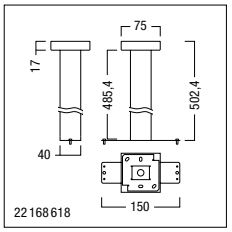
IK04 halogen 850 °C incl. LED

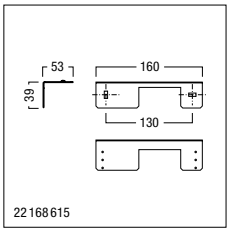


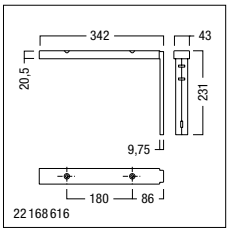
ONLITE CROSSIGN 160 AB installation accessories

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

	Order no.
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







- 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)

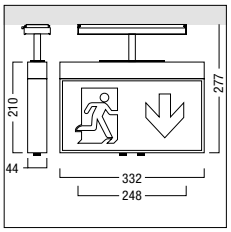
ONLITE CROSSIGN 160 TEC ERI TECTON continuous-row lighting system

- |...|
- 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)

	Order no.
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 emergency signs separately.

IP54 IP42 halogen 850 °C incl. LED



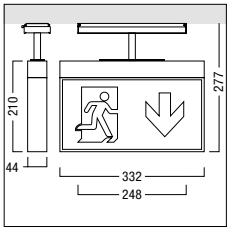
ONLITE CROSSIGN 160 TEC TECTON continuous-row lighting system

- |...|
- 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

	Order no.
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 emergency signs separately.

IP54 IP42 halogen 850 °C incl. LED

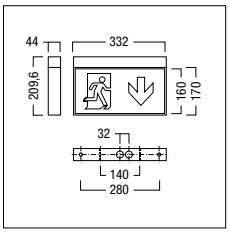


ONLITE CROSSIGN 160 AB/TEC emergency sign RZ

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

Emergency sign	Order no.
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 | 32 m EN1838 | 850 °C



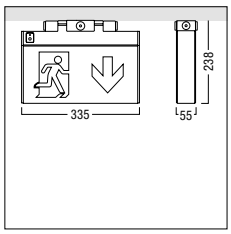
ONLITE ECOSIGN AB surface mount

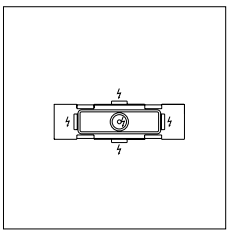
- Housing made of white polycarbonate with metal clips along the sides
- Cable input from any side, with versatile cable guide in base of housing
- Plug-in terminals for through-wiring, max. 2.5 mm²
- Plenty of space for cables in wiring box
- LED control gear with “maintenance function” for constant 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	Order no. *electronic*
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 emergency signs separately

IP65 | 850 °C | incl. LED

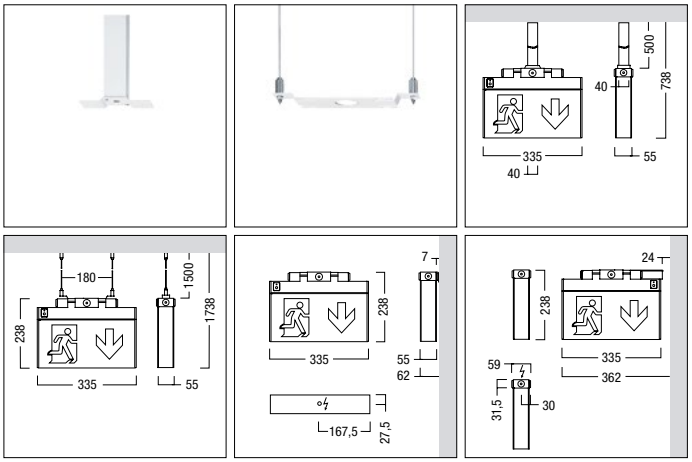




ONLITE ECOSIGN AB installation accessories

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

Accessory	Order no.
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

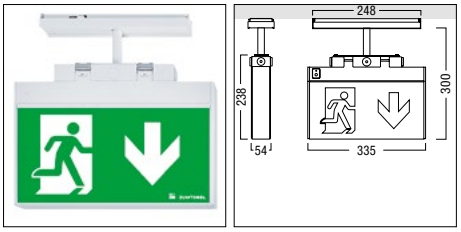


ONLITE ECOSIGN TEC TECTON trunking system

- Housing made of white polycarbonate with metal clips along the sides
- TECTON module length 248 mm
- Tool-free mounting of adapter to theTECTON rail
- Tool-free mounting of frameless pictograms (as escape sign luminaire) and tool-free mounting of transparent cover (as safety luminaire)
- In the self-contained models (NT1 and NT3), the NiMh battery is replaced without tools
- Address for individual luminaires set mechanically or optically (excluding NPS version)
- LED control gear with „maintenance function“ for constant luminance over the entire lifetime of the luminaire
- Power consumption: NSI (7 W), NDA and NPS (5.5 W)
- Installed load: NT1 (5.8 W), NT3 (5.8 W)

Centrally supplied	Order no.
ECOSIGN C TEC-GP NDA	42 184 507
ECOSIGN C TEC-GP NPS electronic	42 184 525
ECOSIGN C TEC-GP NSI	42 184 506
Self contained with monitoring	***electronic***
ECOSIGN C TEC-GP NT1	42 184 504
ECOSIGN C TEC-GP NT3	42 184 505

incl. LED

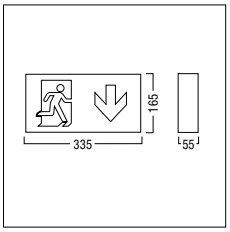


ONLITE ECOSIGN AB/TECTON emergency sign RZ

- Polycarbonate opal cover with additional downwards light outlet, internal longitudinal prisms providing support illumination of escape route
- Emergency sign printed digitally
- Tool-free installation on base unit
- RZ-2S emergency sign; left or right direction by rotating the luminaire
- Optimized for use with the LED luminaire

	Order no.
Single-sided emergency sign	
ECOSIGN C RZ-1L 1x left arrow, 1x white unprinted	22 166 881
ECOSIGN C RZ-1O 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 emergency sign	
ECOSIGN C RZ-2LR 2x right/left arrows	22 166 875
ECOSIGN C RZ-2O 2x pointing up	22 900 372
ECOSIGN C RZ-2U 2x down arrows	22 166 877

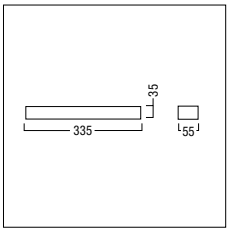
DIN 4844 500 cd/m² 32 m EN 1838



ONLITE ECOSIGN AB/TECTON cover, transparent

- 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 %

	kg	Order no.
Diffuser for emergency and escape-route lighting		
ECOSIGN ABD RW AB clear diffuser	0,2	22 156 875



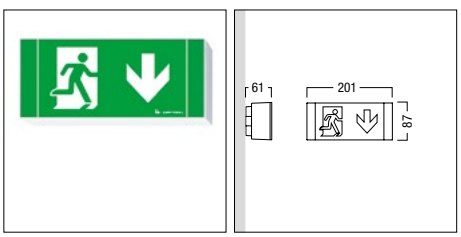
ONLITE ERGOSIGN AW wall surface-mount

- 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

	Order no.
Self contained with monitoring	*electronic*
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 emergency signs separately

IP54 850 °C incl. LED

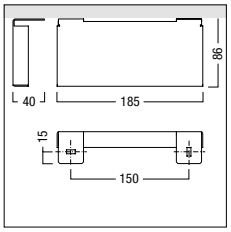


ONLITE ERGOSIGN AD installation accessories

- Cable duct concealed in mounting bracket
- Bracket for fitting ERGOSIGN to the ceiling

Order no.

Accessory	
ERGOSIGN C AD 90° Ceiling bracket for surface-mounting	22 168 749



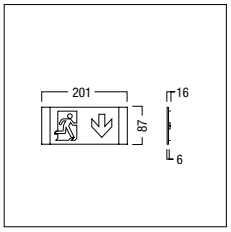
ONLITE ERGOSIGN AW emergency sign RZ

- Opal PC diffuser with integral light waveguide and reflector
- Printed pictogram
- Transparent TPE seal around entire edge

Order no.

Emergency 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 500 cd/m² | 16 m EN 1838



ONLITE CUBESIGN 210 AB ceiling surface-mount

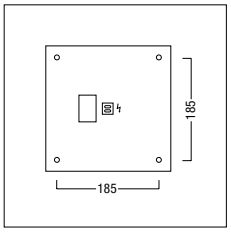
- Housing made of galvanised sheet steel
- Power consumption: NT1 (8.2 W), NT3 (11.52 W)
- Installed load: NSI (11.06 W), NDA (10.6 W)
- Length of cord suspension continuously adjustable up to 5 m
- Installed on ceiling as surface-mount luminaire or using cord suspension (not included with luminaire)
- Luminaire pre-wired using halogen-free leads

Order no.

Self contained with monitoring	*electronic*
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

Please order emergency sign separately.

halogen-free | incl. LED



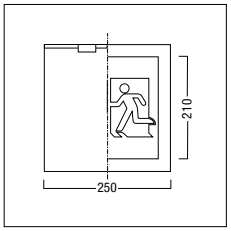
ONLITE CUBESIGN 210 AB emergency sign

- Luminaire cube made of opal plastic
- Emergency sign screen-printed onto plastic panel
- Project-specific pictograms available on request

Order no.

Emergency sign	
CUBESIGN 210 C RZ Cube	22 168 758

DIN 4844 200 cd/m² | 42 m EN 1838



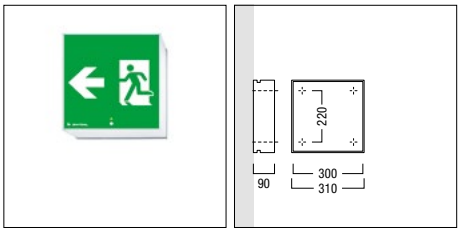
ONLITE SQUARESIGN 300+ AW wall surface-mount

- 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

	Order no.
Self contained with monitoring	*electronic*
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 emergency sign separately

IP54 incl. LED



ONLITE SQUARESIGN 300+ AW emergency sign RZ

- Cover made of opal injection-moulded polycarbonate
- Spring-clip mechanism provided for tool-free installation
- Emergency sign printed digitally
- Uniform background lighting of pictograms with a luminance of over 500 cd/m²

	Order no.
Single-sided emergency sign	
SQUARESIGN 300+ C RZ-1L left arrow	22 168 754
SQUARESIGN 300+ C RZ-1O 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

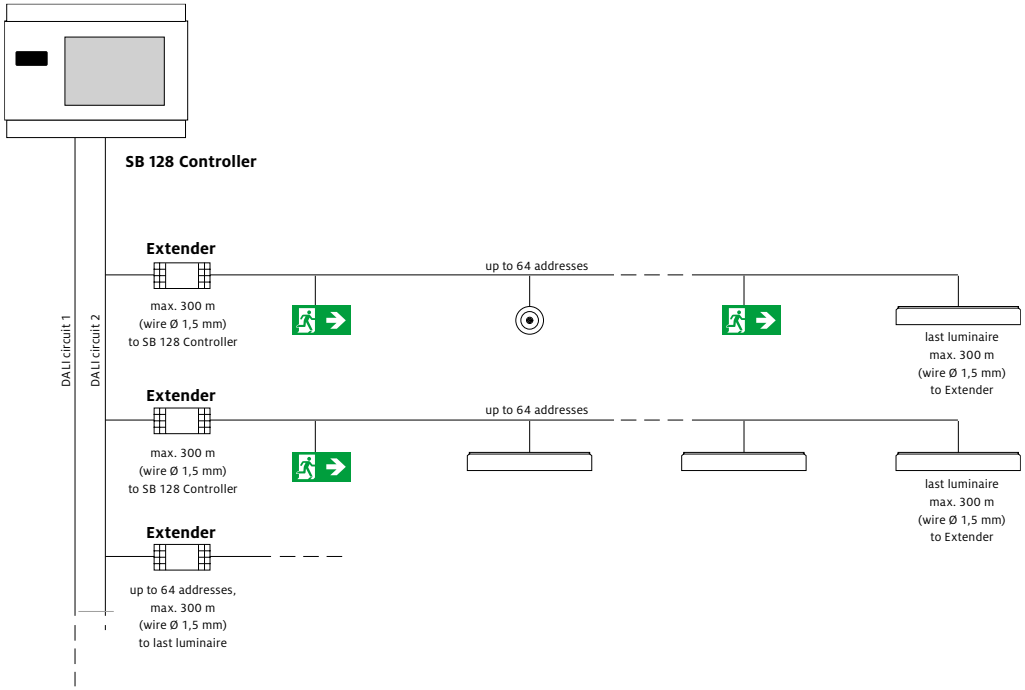
DIN 4844 500 cd/m² | 60 m EN1838 | 850 °C

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

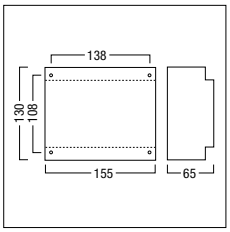


ONLITE local SB128 CONTROLLER

- Central monitoring and display of 128 emergency 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)

Order no.

ONLITE local SB 128 Controller	22 156 829

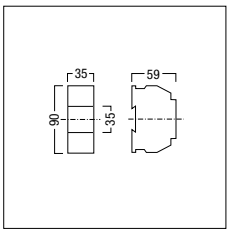


ONLITE local EXTENDER

- 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

Order no.

ONLITE local Extender	22 156 830

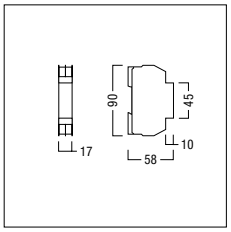


ONLITE local REPEATER

- 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

Order no.

ONLITE local Repeater	22 157 024

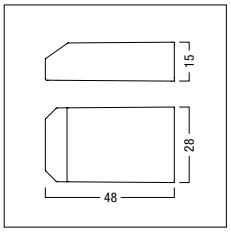


ONLITE local SWITCH MODULE

- Switching of individual or all emergency 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

Order no.

ONLITE local Switch Module II	22 169 120

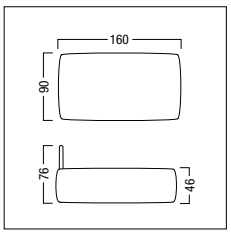


ONLITE local PRINTER

- 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

Order no.

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.

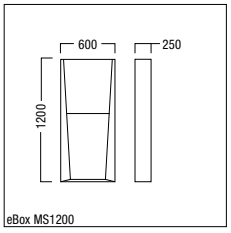
- Central supply system including monitoring of LED emergency and emergency sign luminaires
- TÜV certified CPS/LPS device for use in emergency lighting installations to EN 50172
- Full support system for up to 600 LED emergency and emergency sign luminaires
- Up to 100 eBox units can be networked by 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 ⧈	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 ⧈	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

halogen 650 °C

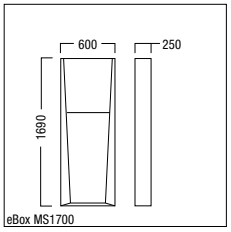


ONLITE central eBox MS1700 central supply system

- |...|
- 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 ⧈	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 ⧈	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

halogen 650 °C

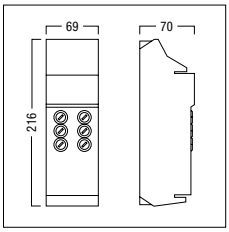


ONLITE central eBox OCM output circuit module

- 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 emergency 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

halogen 650 °C

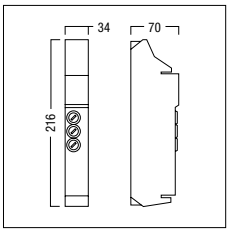


ONLITE central eBox SCM switch connection module

- 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 ±10 %, 50 Hz DC oepration (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

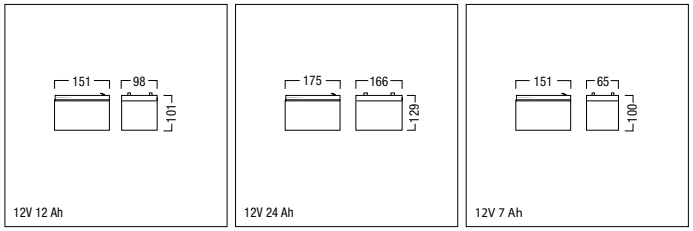
halogen 650 °C

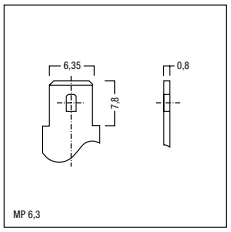


ONLITE central eBox BATTERY SET

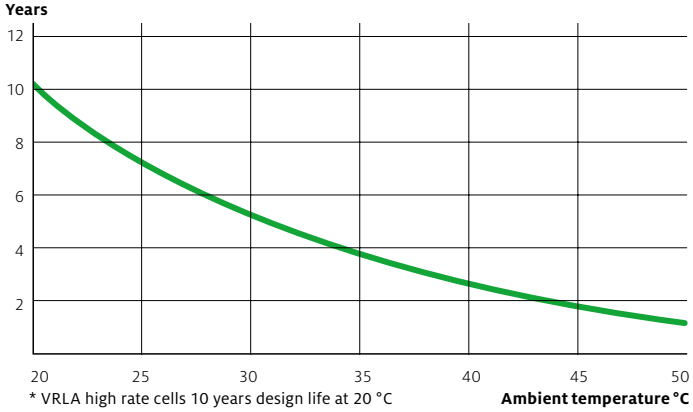
- OGiV high-rate pasted plates (lead/calcium)
- Rated EUROBAT high performance class
- 10-year useful service life @ 20 °C ambient temperature
- ABS case and lid
- Poles with MP 6.3 flat spade terminal
- Extremely low gas emission
- Low self-discharge
- No transportation restrictions
- 100 % recyclable
- 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

	Order no.
Accessory	
ONLITE central eBox TS35 SET	22 169 170
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 *



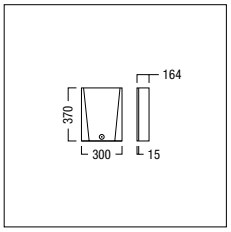
* VRLA high rate cells 10 years design life at 20 °C

ONLITE central eBox SUB sub-distribution board

- Sub-distribution station for central supply system including monitoring of LED emergency and emergency 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

	kg	Order no.
ONLITE central eBox		
ONLITE central eBox SUB	9,3	22 185 290
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

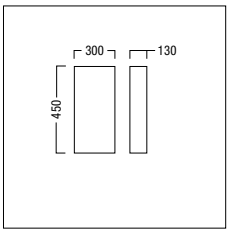


ONLITE central eBox SUB IP65 sub-distribution board

- Sub-distribution station for central supply system including monitoring of LED emergency and emergency 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 IP65	8,5	22 185 292
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

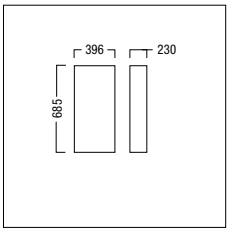


ONLITE central eBox SUB E60 sub-distribution board

- 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 emergency 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

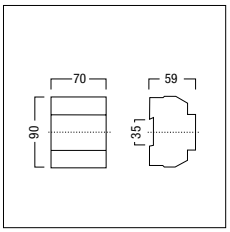


ONLITE central eBox BPD bus phase detector

- 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

halogen 960 °C

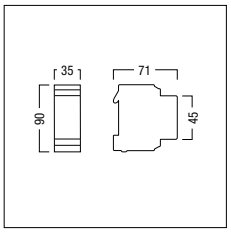


ONLITE central phase detector II

- 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 (Un x 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

Order no.

ONLITE central EPD 2 — 24 161 074

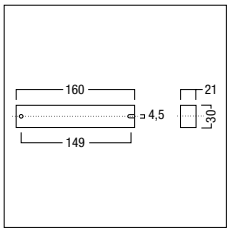


ONLITE central interface for luminaires

- 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' (phase of L´ and supply voltage of eBox must be identical)
- 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)

Order no.

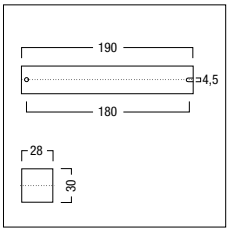
ONLITE central PLC DALI Interface III — 22 168 875

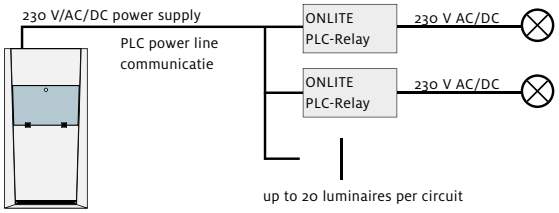


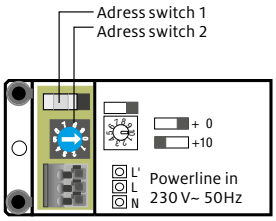
ONLITE central relay for luminaires

- 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 (phase of L´ and supply voltage of eBox must be identical)
- 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

	Order no.
ONLITE central PLC DALI Relais	22 156 805







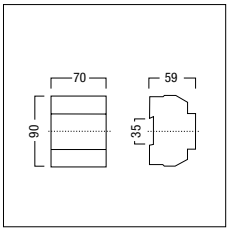
Luminaire address	Adresss switch 1	Adress switch 2
1	0	1
2	0	2
3	0	3
.	.	.
..	..	..
10	0	10
11	10	1
12	10	2
.	.	.
..	..	..
20	10	10

ONLITE central eBox BSIM bus switch input module

- 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 emergency 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

	kg	Order no.
ONLITE central eBox BSIM	0,2	22 185 298

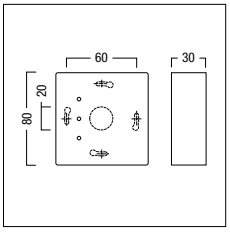
halogen 960 °C



ONLITE central eBox BRI bus remote Interface

- 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)

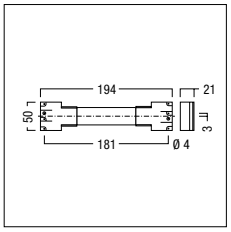
	kg	Order no.
Accessory		
ONLITE BRI		22 185 300



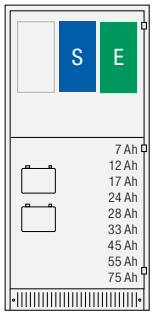
ONLITE central eBox DSIM DALI switch input module

- Dual mains switching input module for DALI-based switching of the emergency and emergency 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)

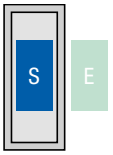
	kg	Order no.
ONLITE central eBox DSIM		22 185 301



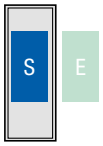
ONLITE central CPS is the individually adjustable solution based on central battery supply, meeting any requirement when it comes to emergency lighting tasks. Today, standard systems switch and monitor individual luminaires at the output circuit. This is done using the ONLITE central CPS modules (E/S). 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

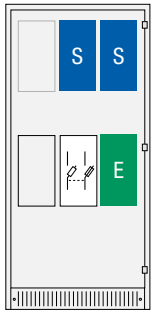


CPS-U E60
Substation



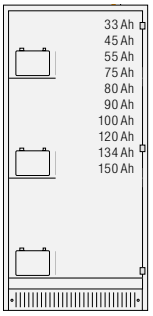
CPS-U E00
Substation

monitoring	S Circuit monitoring	E Individual
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 (mm²)	4	4
Digital potential-free inputs	8 – 16	8 – 16



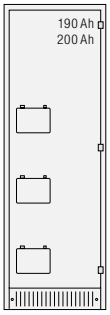
CPS-H
Main station

+



CPS-BS
Battery cabinet

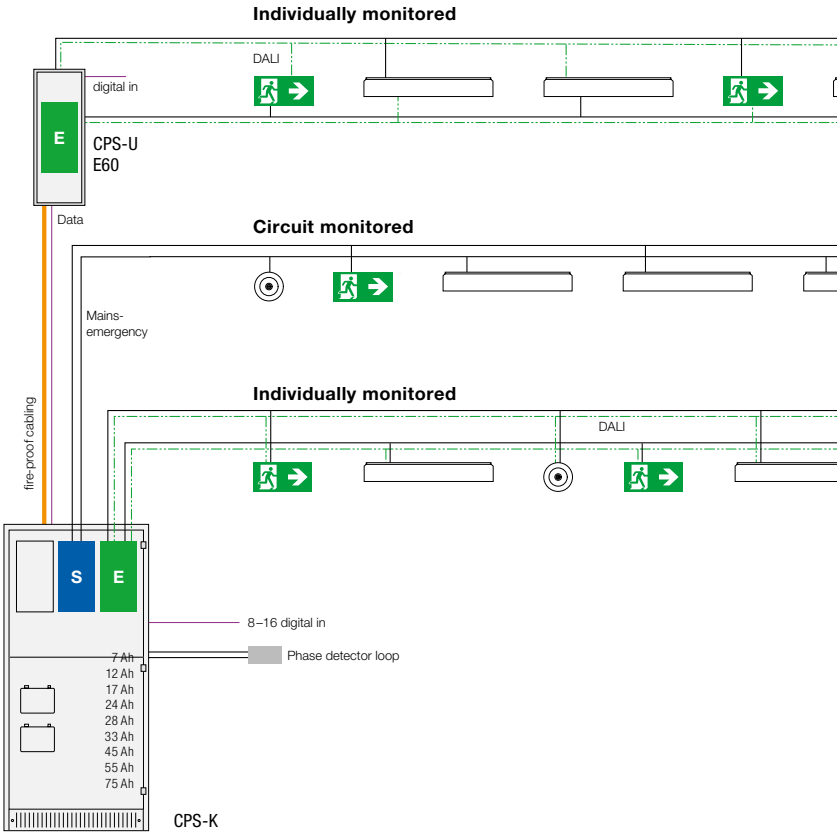
+



CPS-BS
Battery cabinet

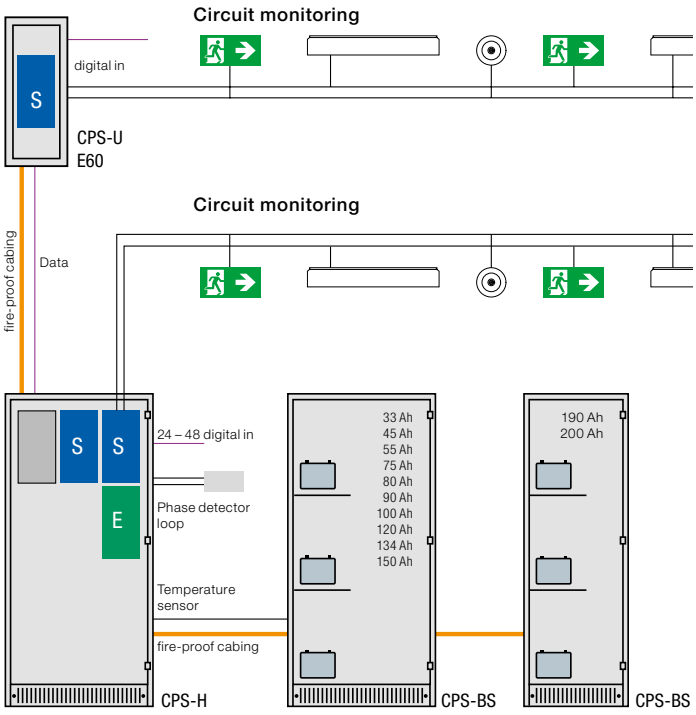
CPS with individual monitoring or circuit monitoring

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.

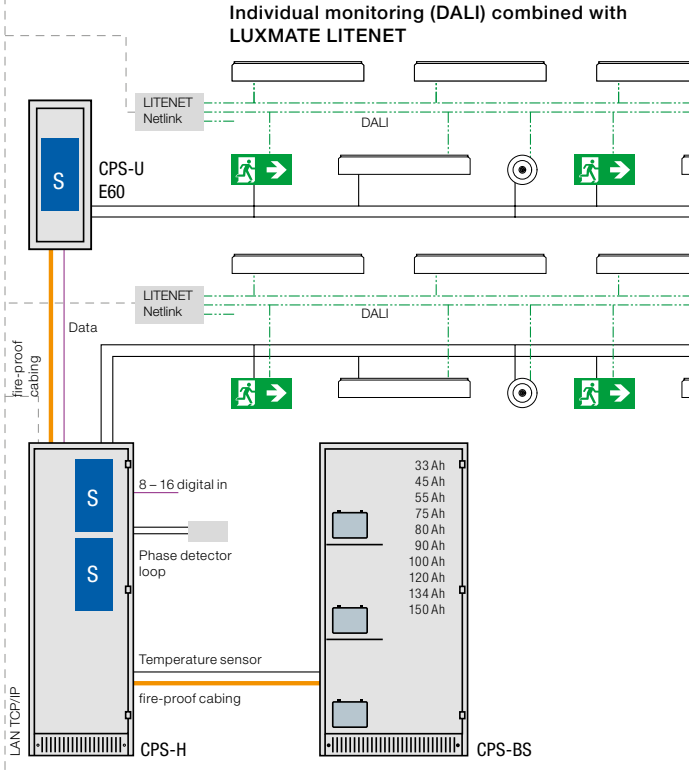


CPS-H main station technical data

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 mm²
Battery outgoing terminals	35 mm²
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.

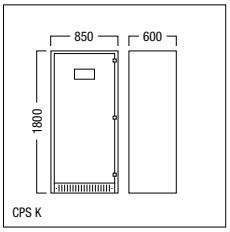


ONLITE central CPS K (CENTRAL POWER SUPPLY)

- 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 pow-der-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

Order no.

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	7–4 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 mm²
Battery voltage (18 blocks)	216 V
Battery capacity range	7–75 Ah
Ethernet port	1
Potential free outputs	5
Digital potential-free inputs	8–6 (per UVS)

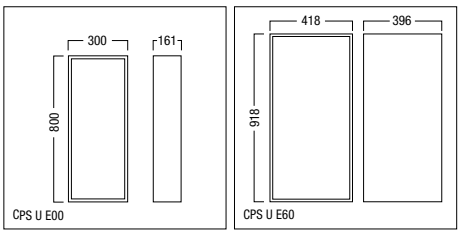
Battery sets	Batteries 18 blocks (kg)	CPS-K (kg)	Total weight CPS-K (kg)
7 Ah	45	180	~ 225
12 Ah	71	180	~ 251
17 Ah	107	180	~ 287
24 Ah	162	180	~ 342
28 Ah	175	180	~ 355
33 Ah	211	180	~ 391
45 Ah	267	180	~ 447
55 Ah	324	180	~ 504
75 Ah	432	180	~ 612

ONLITE central CPS U (CENTRAL POWER SUPPLY)

- 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

Order no.

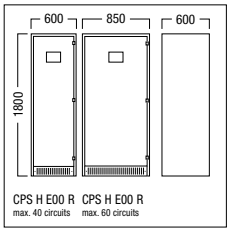
ONLITE central CPS U E00	22 154 691
ONLITE central CPS U E60 IP54	22 154 692



ONLITE central CPS H (CENTRAL POWER SUPPLY)

- 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

	Order no.
ONLITE Central CPS H	22 154 690



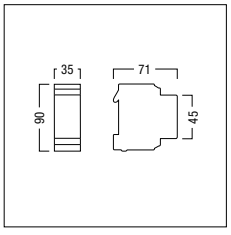
CPS-H main station technical data

Total power	7 – 30 kVA
Circuits internal	1 – 60
Fuse UVS	up to 35 A
Battery outgoing terminals	35 mm²
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 mm²
Total weight CPS-H	180 kg

ONLITE central phase detector II

- 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 (Un x 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

	Order no.
ONLITE central EPD 2	24 161 074



ONLITE central CPS BS

- 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

	Order no.
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

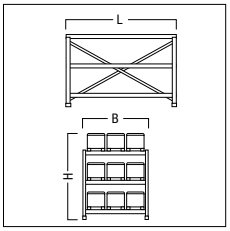
External battery cabinet (CPS-BS)

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	2 x 1800 x 850 x 600	260	1427
200 Ah	1206	2 x 1800 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

	L/W/H	kg	Order no.
Battery rack			
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



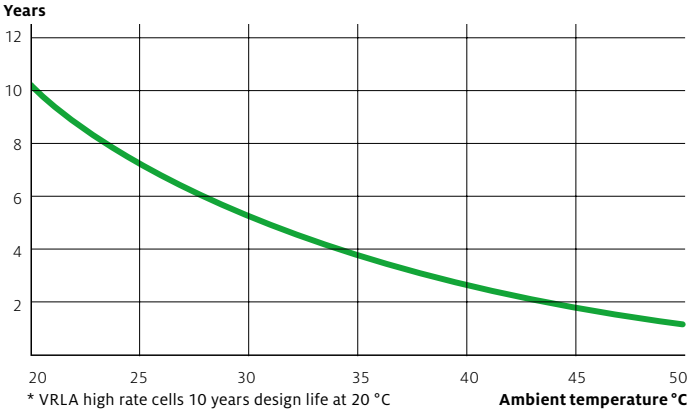
Art. no. battery rack	for battery set	Weight battery set [kg]	Positioning of batteries	Tiers	Rows	Height (HB) above battery [mm]
22 154 694	33 Ah	211	horizontal	3	2	1300
	45 Ah	267	horizontal	3	2	1300
	55 Ah	324	horizontal	3	2	1300
	75 Ah	432	horizontal	3	2	1300
22 161 977	80 Ah	472	horizontal	3	2	1350
	90 Ah	540	horizontal	3	2	1350
	100 Ah	540	horizontal	3	2	1350
	134 Ah	765	horizontal	3	2	1350
22 161 978	120 Ah	679	horizontal	3	2	1350
22 161 979	150 Ah	836	horizontal	3	2	1350
22 161 980	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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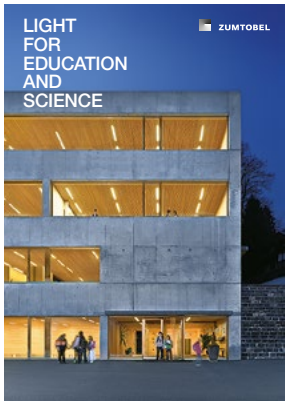

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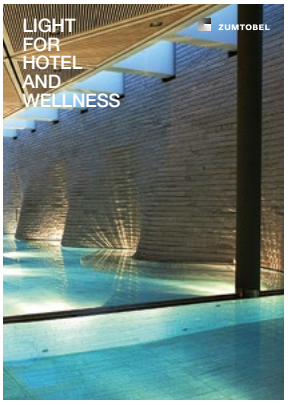

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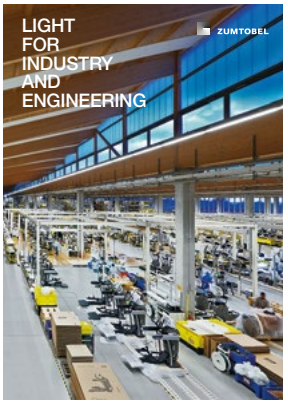

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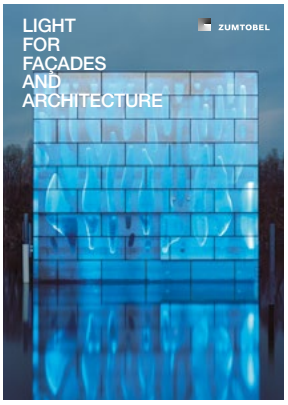

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Zumtobel, a company of the Zumtobel Group, is an internationally leading supplier of integral lighting solutions for professional indoor and outdoor building lighting applications.

- 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

5
YEAR GUARANTEE

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**.

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ONLITE

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and emergency lighting
systems