

LITECOM infinity

Next-generation lighting management for buildings and building complexes

Unlimited flexibility in operation, functionality and project size opens up a new dimension in user orientation.





Simplicity

- safe, easy design guided by the LITECOM Design Manager
- quick installation
- simple commissioning and expansion
- intuitive operation

Cost reduction

- cutting energy consumption
- saving time during commissioning
- wizards instead of training courses
- investment keeping up with the future



Future-proof

- easy configuration that may be changed at any time
- functions and size can be adjusted and extended
- always up-to-date thanks to periodical updates

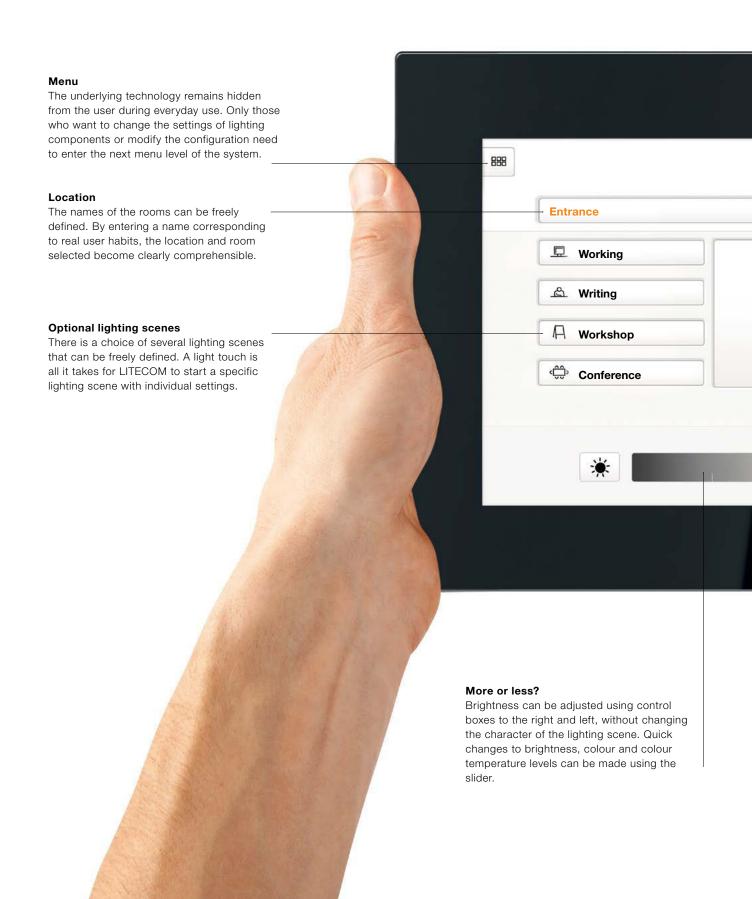
Convenience

- commissioning via touch panel
- control via mobile devices
- main functions at a click
- well-being thanks to individual configuration of lighting scenes

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The user interface

Intuitive user guidance





Detailed settings

A second password protected level will open to allow for high-precision control of each individual luminaire, of the luminaire groups and of all integrated devices. The symbol indicates the area that is currently active and lists the parameters that can be adjusted.

Features

If particular features of building services are to be changed, such as for instance, the position or the slat angle of the blinds or the colour temperature of all tunableWhite luminaires, this can be achieved by only two clicks in a convenient and reliable manner.

The controller

The heart of the lighting management system

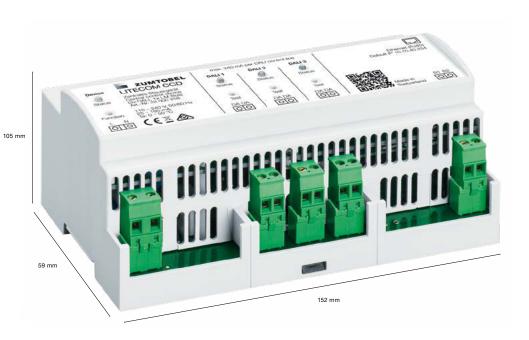
LITECOM and LITECOM infinity system control centre

A combination of all functions in a compact design, the LITECOM controller is a space-saving solution in the switch cabinet and a time-saving solution in terms of maintenance. Yet the system is highly future-proof thanks to its upgradable system architecture.

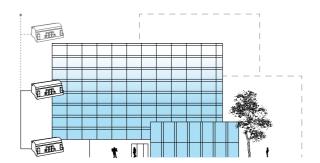
Installation of a LITECOM system is as quick and precise as its design. The device can be securely mounted on the DIN rail by a flick of the wrist, and plug-in screw terminals are available for highly convenient connection. Even cabling is quick and flexible: luminaires and other DALI devices are directly connected to one of the three DALI buses supplied with power. The system bus also controls motor actuators, such as those used for blinds, for instance. Neither a separate control system nor a gateway is required.

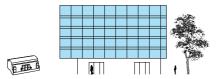
Via a gateway, LITECOM is directly connected to the office or technology network; integration of the lighting management system into the Internet and Intranet is therefore possible without any extra modules. The Web access also clears the way for remote maintenance, providing all benefits of expert support in due time.

A controller that is used as the LITECOM control centre can also be integrated into a LITECOM infinity system. Only one software update and a TCP/IP connection to the office network is needed. The way back from the system solution to the individual solution is also possible at any time.



LITECOM CCD, Central Control Device: one device for all functions, future-proof thanks to upgradable system architecture.





LITECOM infinity

The number of possible addresses adds up by linking several LITECOM controllers. A first generation LITECOM infinity system can comprise up to 2,500 addresses with up to 15 controllers and ultimately up to 100,000 addresses will be possible. The system can thus be flexibly adjusted if the requirements in the building change.

LITECOM

A single LITECOM controller is enough for small buildings or a single floor. If the system is expanded to a LITECOM infinity system, several existing controllers are linked with one another. The opposite way is also possible at any time. By removing them from the system, each controller can again be transferred to the self-sufficient LITECOM mode with 250 addresses.

System limit

250 addresses per LITECOM CCD 2,500 addresses with 15 controllers in the first LITECOM infinity generation, 100,000 addresses in the final expansion stage.

3 x DALI incl. DALI voltage supply with 120 bus loads (240 mA) per DALI line

64 DALI units per DALI line

64 DALI ED units per DALI line

1 x LM system bus (without bus power supply)

Test switch and status LED for each DALI chain

1 x Ethernet 100 Mbits/s; RJ45/CAT

Connection

Plug-in screw terminals for one-wire or fine-wire cables with cross-section ranging from 0.5 to 1.5 mm $\,$

Type of installation

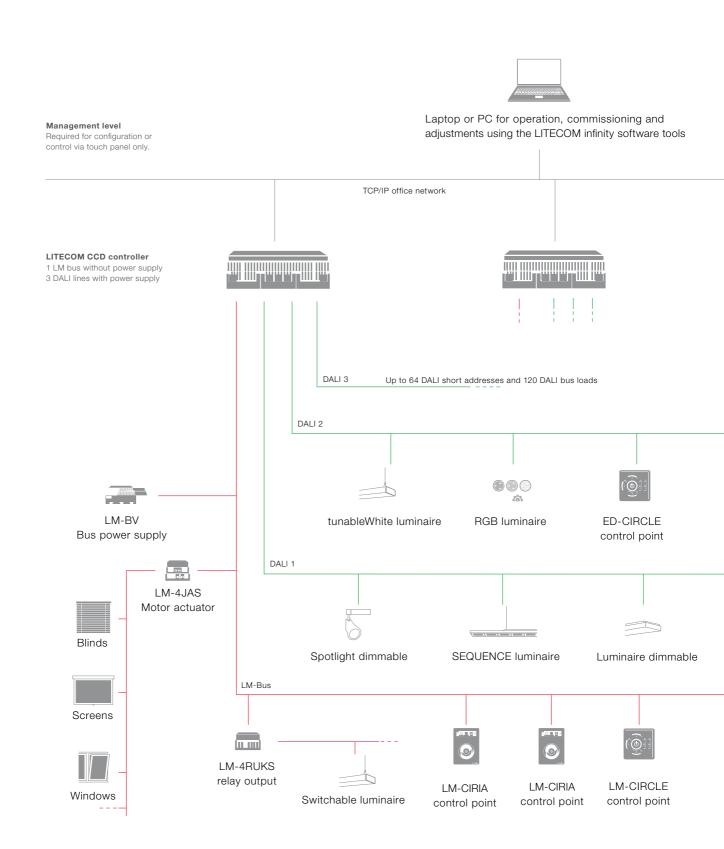
DIN rail mounting (35 mm DIN rail acc. to EN 50022) Space for only 9 units required

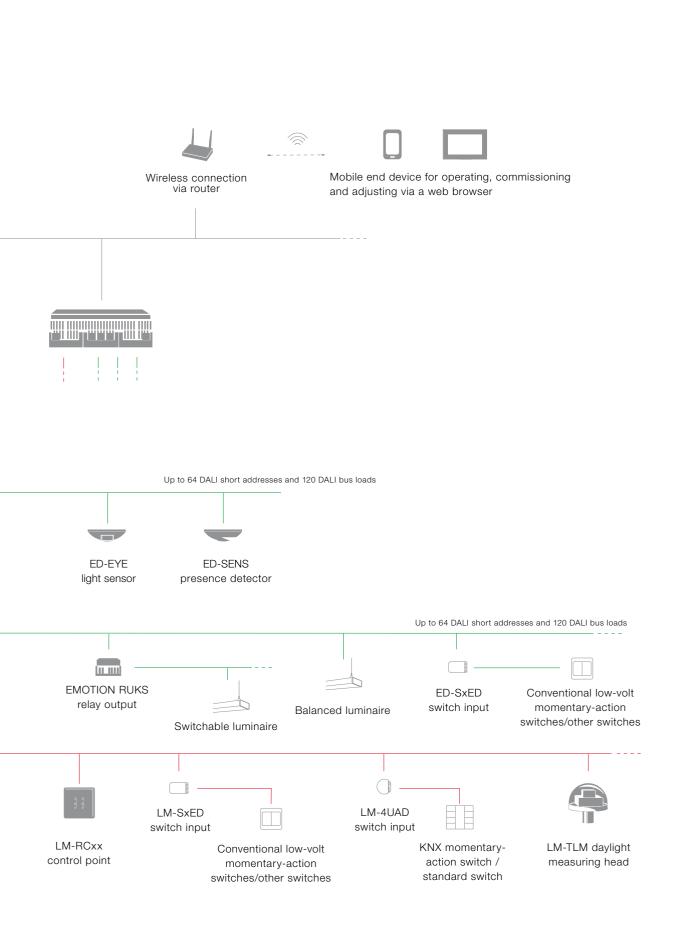
Permissible cable lengths

Cable cross-section	Max. cable length DALI Jointly with mains in the same cable		section Jointly with mains in Jointly with mains in		vith mains in
0.50 mm ²	100 m	100 m	250 m	5 m	
0.75 mm ²	150 m	150 m	350 m	5 m	
1.00 mm ²	200 m	200 m	420 m	5 m	
1.50 mm ²	300 m	300 m	500 m	5 m	

The topology of a LITECOM infinity system

Simply and clearly structured, from planning to installation





User-orientated lighting management

The most efficient way to save energy

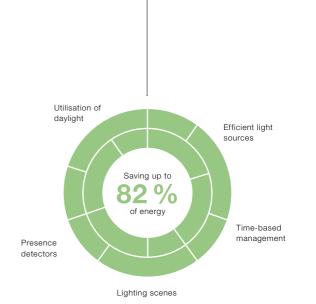
Cutting energy consumption

In combination with intelligent management strategies, efficient luminaires achieve maximum energy savings. Energy consumption can be reduced by 25 per cent through the use of luminaires fitted with electronic control gear with a dimming function. Presence detectors and switch-on times that are stored in LITECOM's central building calendar can yield additional potential savings of 20 to 40%. Even manual adjustment of lighting scenes to the respective activity will decrease electricity costs in many cases. Up to 75 per cent of the energy consumed by lighting can be saved in functional buildings by making optimum use of daylight. This free incident daylight can still be used even if there is sunshading and glare protection. Properly coordinated control of lighting and blinds reduces the cooling load of a building and improves lighting quality as well. LITECOM is the ideal management system to combine the various energy-saving functions. The unique licensing strategy with predefined algorithms opens up maximum savings potential and accordingly makes an excellent contribution with respect to environmental certifications such as LEED, BREEAM, DGNB, ÖGNI, HQE and BBC.

Meeting requirements

The EU intends to reduce its energy consumption by 20 percent by 2020, thus saving some 780 million tonnes of CO_2 emissions each year. Efficient lighting can make an essential contribution in this respect. According to a study conducted by the independent association "Fördergemeinschaft Gutes Licht", 82 per cent of the electricity consumed can be saved through intelligent lighting solutions. A major part of this is due to effective lighting management strategies.

Scientific evidence that lighting management increases a building's efficiency was established based on a real office building in Barcelona: **zumtobel.com/barcelonastudie**











Utilising all potentials will provide maximum energy savings

Efficient light sources

Operated on the basis of electronic control gear with a dimming function, efficient LED luminaires and light sources make optimum use of the savings potential.

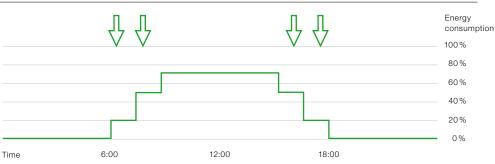






Time-based management

Through calendar entries or time of day settings, the frequency and burning time of luminaires that are unintentionally left switched on is reduced.





Lighting scenes

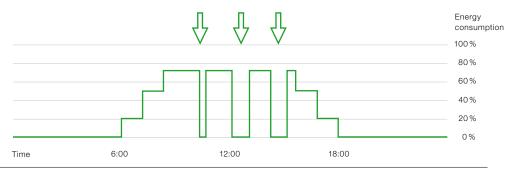
Application-based lighting creates the possibility to take account of various visual tasks and to simultaneously save energy most of the time.





Presence detection

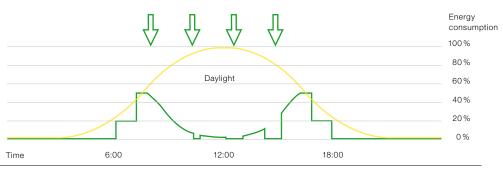
Lighting that is only switched on when it is actually needed is the most frugal of all. Presence detectors make a highly useful contribution to reduce electricity costs.





Use of daylight

A lighting management system that is reasonably based on daylight and combined with adequate solar protection will achieve maximum lighting quality and save a lot of energy.



LITECOM infinity

Lighting management with endless flexibility

Continuous expansion

The principle is astonishingly simple: The larger the system, the more controllers constitute a system. After networking for the first time, the controllers independently organise themselves into a LITECOM infinity system – without a central automation server, which is necessary for other systems. That is why the system is and remains so flexible. It is possible to join more controllers with a LITECOM infinity system or remove them again for self-sufficient LITECOM mode at any time.

The transition from LITECOM to LITECOM infinity is fluid.

The control centre of both systems is the LITECOM CCD, which respectively controls 250 actuators. Larger systems simply need an additional LITECOM infinity controller (first version max. 2,500 addresses with max. 15 LITECOM CCDs). The hardware is always the same and installation always takes place according to the same scheme. Every LITECOM infinity system of this size is presented to the observer as a unit and can be operated, monitored and configured centrally. Users only see floors and their rooms or zones when operating and can thus easily find their way.

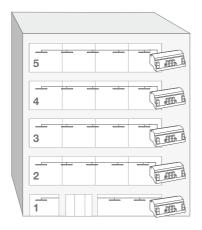
Flexible building use

A LITECOM infinity system fits precisely into any building use. From self-sufficient lighting control on each individual floor through to building-wide overall systems with an Ethernet backbone, everything is possible. Thereby, areas can be brought together and removed from one another again.

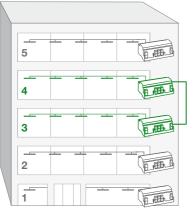
Therefore, LITECOM and LITECOM infinity are not just the ideal solution for businesses that want to flexibly react to future changes, but also for buildings that are rented out to different users. Because with LITECOM, the tenant himself can decide which function he wants to use in his own area.



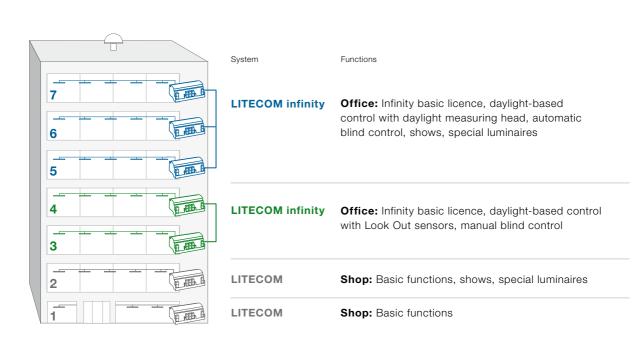
Other example of flexible building use

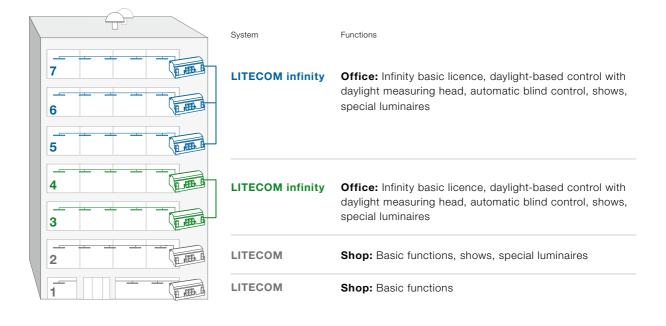


System	Functions
LITECOM	Use not yet defined: Basic functions
LITECOM	Office: Basic functions, daylight, manual blind control
LITECOM	Office: Basic functions, daylight
LITECOM	Shop: Basic functions, shows, special luminaires
LITECOM	Shop: Basic functions



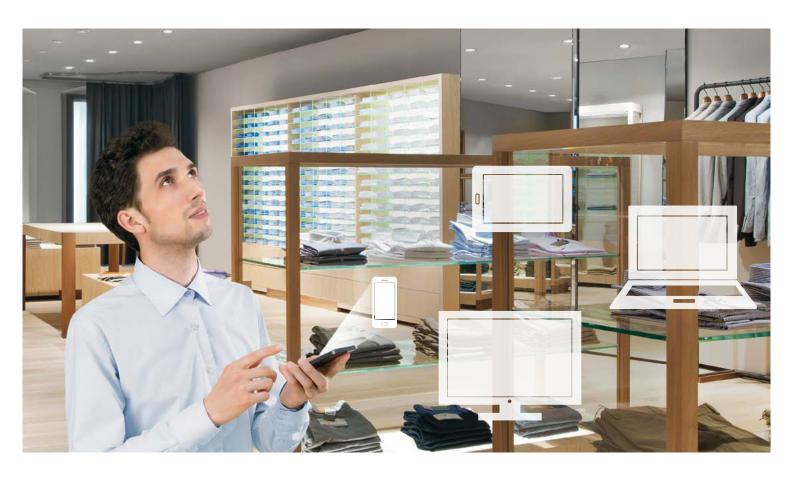
System	Functions Use not yet defined: Basic functions	
LITECOM		
LITECOM infinity	Office: Infinity basic licence, daylight-based control with Look Out sensors, manual blind control	
LITECOM	Shop: Basic functions, shows, special luminaires	
LITECOM	Shop: Basic functions	





Operation

Modern technology easily used



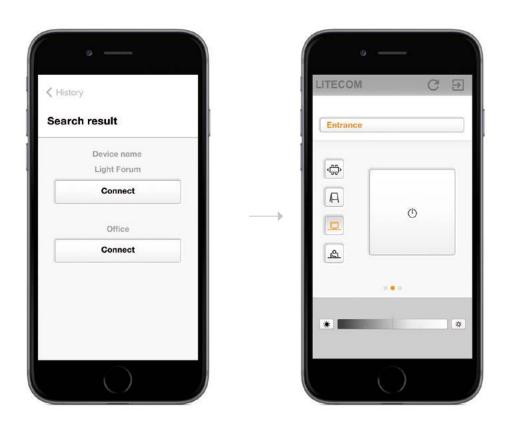
Mobile interaction

Every computer connected via a network, every tablet and every smartphone can assume the function of an operating point or control unit. The various expectations of users and system administrators are met in a target group-adequate manner using a 2-tier access system: no more than a click is required to call up a lighting scene, new functions can be added within seconds, and configuration is guided step by step. For the user interface especially developed for LITECOM is just as easy to use as a momentary-action light switch.

"Intelligent lighting has never been so easy to handle.

All functions are conveniently displayed, the best lighting scenes are pre-defined, and I can even control the whole system via my smartphone."

Oliver Mahler, Elektro Quappe GmbH&Co.KG, Lemgo





App for mobile devices

The free app links mobile devices to LITECOM and is available at the App Store for iOS and at Google Play for Android products. The search for access points and network set-up is effected automatically, and stored links can be called up again at a later date. All functions required for operating a LITECOM lighting control system are conveniently displayed on computers and tablets as well as on smartphones. For this purpose, a graphic user interface was specifically developed for the smaller devices.









Every device fitted with a Web browser can be used as a LITECOM control unit. The user interface is displayed after one click.

Open to any kind of control

Consistently designed to meet the individual requirements of users, LITECOM allows integration of any type of control unit – from traditional momentary-action switches through to the well-known Zumtobel control points and even mobile devices. Smartphones allow intuitive operation of the room previously selected, while those with larger screen sizes allow operation and configuration of the entire system.

Easier than ever

With clear symbols and only a few steps, users and administrators navigate through the entire system. Both operation and configuration are child's play through well-structured input screens with clear definitions. The convenient help function is available in several languages.











CIRIA

CIRCLE

Momentary-action

Zumtobel control units and conventional momentary-action switches fulfil the functions of traditional manual control in LITECOM systems.

Design tested by application experts

The user interface especially developed for LITECOM combines intuitive operation and reliable control with contemporary design. LITECOM makes use of a type of control that is known from smartphones and tablets: multiple tapping on multi-touch displays is processed into commands. Thanks to high-resolution, high-contrast colour graphic elements and icons, all control elements can be easily identified and selected in a targeted manner also on devices with a diagonal screen size of 7 inches.

The touch panel

Contemporary design for advanced technology

The touch panel especially optimised for LITECOM combines outstanding performance with contemporary design. The flat housing with a consistent glass panel unobtrusively blends into the interior. When mounted flush into the wall, additional aesthetic appeal is added to the touch panel thanks to an attractive shadow gap. The capacitive multi-touch display can process commands via multiple tapping at the same time, thus allowing a type of operation known from smartphones and tablets. All control elements can be easily identified on the high-resolution, high-contrast colour display with a diagonal screen size of 7 inches.

In order to allow a high-performance data connection, the touch panel is fitted with an Ethernet connector. High processor performance and memory capacity ensure quick handling of all current and future tasks. Boasting low energy consumption, high operating safety and long service life, the touch panel really comes into its own during every-day operation.



Dimensions

190 x 126 x 52 mm

Diagonal screen size 7" (17.8 cm)

Resolution

WVGA (800 x 480 dots)

Contrast

300 cd/m²

Display

Capacitive multi-touch interface

Installation

Recessed

Power supply 24 V DC, 9 W

Interfaces

Ethernet 100 Mbit/s, USB 2.0

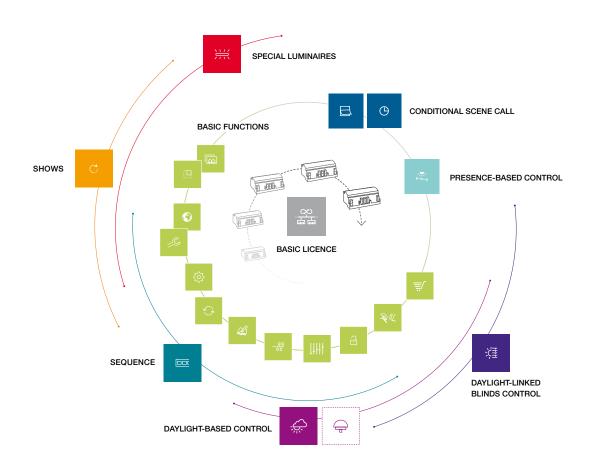


Intuitive operation right from the start: an app supports the process of connecting the system with the LITECOM controller.

Unique licensing system

Customised functionality

Additional LITECOM infinity licences can be included at any time. Basic functions of the lighting system and building services are already covered with the basic licence. This includes, among other things, dimming luminaires, saving lighting scenes, and controlling screens, windows and blinds. Other functions, such as daylight or blind management with central daylight measuring head, are covered by optional licences. Thus, any changes and additions have been provided for.



LITECOM infinity

Overview of functions

	Basic	Optional
Basic functions Scene recall, manual dimming, manual colour temperature change, light colour, colour saturations, balance, blind position, slat angle, position of windows and screens	•	
Basic settings Date and time, colour scheme, password, geographical coordinates, start page, updates, network	•	
Wizard-guided commissioning, addressing wizard for addressing luminaires, sensors, control points and motor actuators	•	
Editing and conditional light recall with calendar functions	•	
Presence detectors	•	
Defining zones	•	
Integrating daylight with Look Out sensor (ED-EYE)		•
Integrating daylight and blinds with daylight measuring head (LM-TLM) * including controller to display values		•
Protection functions (relay contacts)	•	
Defining shows		•
Integrating special luminaires (RGB, tunableWhite,)		•
Integrating SEQUENCE luminaires and setting the light distribution (pattern)	•	
Reports, error messages	•	
Data backup	•	
Testing the installation	•	
Integrating emergency lighting		•
Resetting and restoring a LITECOM infinity system	•	
Automatic exchange of a controller, device compatibility	•	
Creating a network of LITECOM CCD controllers round a LITECOM infinity system		•

 $^{^{\}star}$ Contact Zumtobel system sales for a detailed description of the functions.

LITECOM infinity basic functions

Flexible from scratch



LITECOM infinity basic licence

LITECOM controllers become network-compatible control centres thanks to the LITECOM infinity basic licence. Therefore, the basis is created to, for example, control the illuminance or blinds via a central daylight measuring head. Even a single controller is equipped with this function via the LITECOM infinity basic licence.

The network begins with any one controller. Based on the project data, the system receives a name and the network is established. All further controllers are added by inputting the same data automatically in the LITECOM infinity network. From this point onwards, the devices organise themselves.





Creating and maintaining structures

The system supplied is immediately operational. The structure of the system can be defined in compliance with the situation on site and can very easily be extended or adjusted as required. Designations are made in plain text; in this way, all rooms and groups are identified by comprehensible names. A few clicks are sufficient to address control units, sensors and actuators as well.







Personalising the user interface, defining key data

LITECOM offers personalised design options – ranging from a choice of several languages via colour settings through to textual identification of the currently active area. Details regarding dates and times as well as geographical coordinates are collected and passwords defined at a central location.



Protective functions

In case of unpleasant temperatures, high wind speed or heavy rain, the windows will be closed and the blinds move to a protective position automatically.



Creating zones

The option of grouping actuators from various rooms into zones allows the definition of lighting scenes for several rooms and groups. All LITECOM control options can be applied to these zones.



Installation test

Immediately after installation it is already possible to check whether all luminaires and control points are properly connected – without having to configure them previously.









Taking security measures

Even the basic functions allow saving and calling up settings or running software updates. The screen can be locked to protect it against mistaken or unauthorised operation. A log licence enables all changes to be monitored step by step.











Setting and calling up lighting scenes

Lighting scenes are a tried-and-tested method to store the lighting settings suited best for a variety of lighting tasks and activities, so that they can be called up and modified, if required. LITECOM allows to very easily adjust predefined lighting scenes individually, to compose new lighting scenes and to add new features.





Conditional scene call

The versatility of time-based control ranges from fixed times of day to variable switching times depending on events or calendar entries. A LITECOM twilight configuration, for instance, not only takes the level of daylight into account, but also the day of the week, and it provides for exceptions in case of holidays, if required.



Presence-based control

Presence detectors detect the presence of persons and adjust the lighting provided according to the parameters set: different lighting scenes are possible in case of presence and absence. Sensors can be assigned to rooms and areas as required. Several time windows provide additional scope of action.











Addressing actuators directly

The basic functions include the option of addressing existing actuators within the LITECOM system: luminaires are switched and dimmed, tunableWhite luminaires change their colour temperatures, blinds, windows and screens are put into the required position.



LITECOM store

New functions can be ordered and activated at any time as a licence on the LITECOM website.



SEQUENCE multifunctional LED luminaire

The individual design options of SEQUENCE infinity are made accessible via the appropriate licence. Separately controllable LED modules allow perfect alignment of the luminaires to a variety of visual tasks.

Optional LITECOM infinity licences

Extensions as required





Daylight-based control

If the lighting level is adjusted to incident daylight, both energy efficiency and visual comfort are increased. The most comfortable solutions emerge through variable daylight settings and target illuminance levels for each luminaire group and room, with individual assignment of sensors to rooms and integration of lighting scenes. A central daylight measuring head determines the values for efficient daylight use for all rooms in a building. As a result, the system is made simple and cost-effective at the same time.



Blind control with daylight measuring head

Blinds that automatically position themselves according to the sun's position effectively prevent glare and increase well-being. Energy is saved by maintaining a good balance between daylight utilisation and visual contact with the outside world thanks to the rotatable blind slats. Furthermore, intelligently controlled blinds support the building's air conditioning in winter and in summer, which again achieves cost savings.





Shows

The dynamic change in the light scenes covers all integrated systems: the brightness of the luminaires and their colours, the colour temperatures and the direct/indirect light ratio. Even the position of blinds and screens is part of a script based on the time of day, starting at the occurrence of predefined criteria or after a manually entered command.



Special luminaires

Luminaires with several actuators allow a new form of customisation. Nevertheless, they can be configured and operated very conveniently using the licence. Direct and indirect light components of balanced luminaires are jointly controlled, but addressed according to their orientation. RGB luminaires are able to produce any colours by mixing red, green and blue light. tunableWhite luminaires (fitted with several light sources) are able to change light colours as required.

Daylight-based control

Optimal use of free daylight

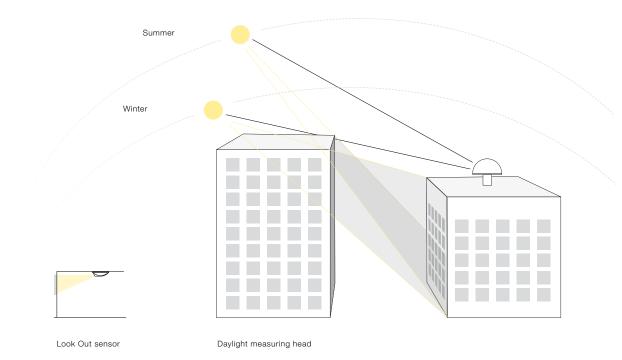




Daylight-based control:

The right illuminance at all times

The proven interplay between sunlight and artificial light presents a double effect. It increases the visual comfort and at the same time decreases energy costs for lighting. The system only increases the missing illuminance when and where there is too little daylight. The inclusion of variable light scenes as well as target illuminance per luminaire group and room ensure that the right amount of light is available for any task. The daylight measuring head supplies all necessary data for all rooms in a building.





Through the perfect interplay of automation and management software, it is possible to adjust the artificial light and blinds in each room and room depth precisely to the incoming daylight – even if adjacent buildings partially shadow the rooms.

The professionalism of centrally-controlled daylight

Developed by Zumtobel, the daylight measuring head has proven itself thousands of times. With a panoramic lighting snapshot, it lays the foundations for reliably controlling lighting and blinds. Installed outside the building, the daylight measuring head records the sun's position, the direct and indirect light components once every second using its eight photocells. Moreover, the geographical location of the installation and its range of sun positions are stored in every installation. All this information is used to accurately determine the natural lighting conditions in a particular room. The daylight measuring head can be easily combined with the Look Out sensor which measures incident light in the immediate vicinity of a window. The system is therefore unaffected by reflections and reflected glare.

Using daylight intelligently

More comfort with higher energy efficiency

Blind control with daylight measuring head: Individual well-being through automation

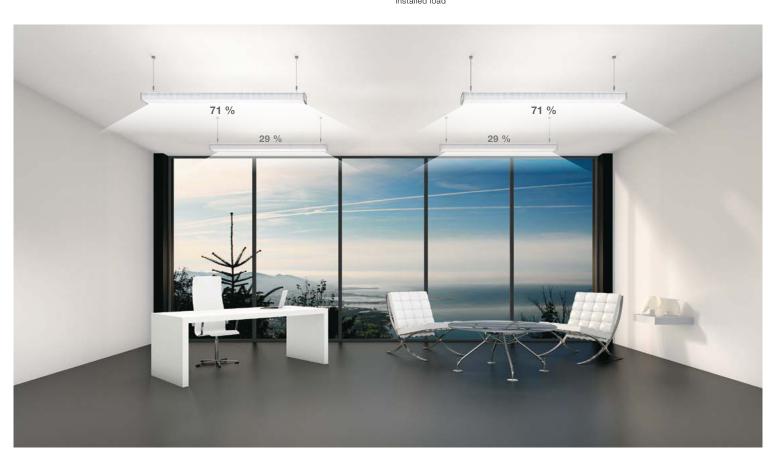
The sun has an individual relationship with every place on our planet. The different incidence angles and intensities of daylight are taken into account by a LITECOM infinity system as are changes though the day and through the year. It then decides diverse possibilities to increase comfort and at the same time reduce running costs for lighting and air conditioning.

- Optimal use of sunlight
- Add the right amount of artificial light
- Avoid glare using blind control
- Retain visual contact with the outside world
- Control the interior climate in summer and in winter
- Aesthetically designed façades

07:02 am The natural morning sunlight wakes up sleepy heads. Lack of brightness is compensated for by the luminaires, with efficiently appropriate levels according to activity and distance from the window.

Energy consumption: 119.5 watts

50 % of a total of 239 watts installed load





11:45 am At lunchtime the sun is at its zenith, which may lead to undesired glare and warming. Correctly positioned blind slats allow sufficient light to enter the room, and luminaires directly at the window front are heavily dimmed.

Energy consumption 22.7 watts

 $9.5\ \%$ of a total of 239 watts installed load



03:07 pm LITECOM infinity also has the right recipe for horizontal incident rays, for using as much daylight as possible and at the same time for counteracting any adverse effects. Artificial light automatically creates the required compensation.

Energy consumption 82.4 watts

34.5 % of a total of 239 watts installed load



07:17 pm A clear view through the open blinds brings evening atmosphere into the room. Indirect distribution of light creates a pleasant ambient brightness.. The visual task determines the right quantity of direct light.

Energy consumption 205.5 watts

 $86\ \%$ of a total of 239 watts installed load

LITECOM shows

Dynamic lighting scenes



Light subject to the changes of time

LITECOM is the creative tool for dynamic lighting scenarios. These may include various colour luminaires or dynamic sequences involving tunable-White luminaires. In particular for offices, LITECOM provides scientifically founded, predefined sequences to support people's circadian rhythm. Thus, stimulation can be ensured in the morning or well-being enhanced in the course of the day. Using appropriate luminaires not only allows adjustments of the colour temperature, but also changes in lighting intensity levels and the balance between direct and indirect light component. This makes it possible, among others, to create application-related scripts for night-shift workers.

Little effort, huge effect

Thanks to intuitive user guidance, creating a LITECOM script is particularly easy: simply assign the required lighting qualities to the relevant times of day. The system will calculate all transitions and transmit them to the luminaire over time. It is possible to either start at the beginning of a script or to activate the lighting scenario at the point in time that corresponds to the time of day, depending on the command used. For thorough testing in advance, the application can be run in real time or in quick-motion mode. Once sequences have been defined, they can be transferred easily and quickly using an export/import function. Thus lighting scripts can be conveniently used for several applications.



Stimulation in the morning

Colour temperature: 5000 K $E_{h^{\star}}$ (daylight and artificial lighting): more than 500 lx

Objective: synchronisation of people's circadian rhythm, complete suppression of melatonin release





During the day in sunshine

Colour temperature: 4000 K $E_{h}{}^{\star}$ (daylight and artificial lighting): more than 1000 lx

Objective: enhancing people's well-being through well-matched colour temperature, accordingly warmer light colours during sunshine





Getting ready for sleep

Colour temperature: 3000 K E_h^* (daylight and artificial lighting): more than 500 lx

Objective: synchronisation of people's circadian rhythm, no interference with melatonin release, restful sleep







A few clicks are all you need to define the dynamic sequence of illuminance levels on a clearly structured timeline. For colour and tunableWhite luminaires, it is equally easy to create an additional interplay of colours or colour temperatures.



The changes in lighting intensity are determined on the timeline using a number of distinctive curve points.



Independent of the intensity level, a sequence of colour temperature levels can also be defined for appropriate luminaires. The transitions between the points are calculated automatically.

SEQUENCE luminaire

Holistic lighting solution for the office



Integral lighting solutions create added value for the customer, for instance, by enhancing the employees' sense of well-being, defining work spaces and strengthening a company's identity. Zumtobel meets the concomitant need for environmentally compatible lighting by offering lighting solutions that perfectly combine the qualities of advanced luminaires with the options provided by lighting management. Here the LITECOM infinity licensing strategy opens up a wide range of opportunities.

The SEQUENCE luminaire: the new customisation of light

A user study jointly conducted by Zumtobel and the Fraunhofer Institute of Labour Planning and Organisation (IAO) has revealed that office workers prefer lighting solutions that allow individual configuration. The SEQUENCE infinity pendant and surface-mounted LED luminaire perfectly meets these requirements. Separately controlled LED modules – a luminaire consists of up to 14 identical, self-contained LED modules – open up nearly infinite lighting design options.

SEQUENCE licence: perfect light with one click

Intelligent technology makes operation child's play. The SEQUENCE licence pre-installed in LITECOM infinity includes exemplary light distribution patterns: nine predefined patterns facilitate office work by adjusting lighting scenes quickly and precisely to a variety of activities, users' personal needs and room situations. In order to leave nothing to be desired, users may also define their own patterns.



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Concentration at work

Maximum direct and indirect illuminance levels make it easier to perform demanding tasks.



Tablet PC

Reflected glare on glossy surfaces of displays or magazines can be effectively avoided by cutting out the direct light component above the task area.



Conference

Objects placed on a table attract increased attention if the light is focussed in the centre. A well-balanced atmosphere is created by reduced illuminance levels in the peripheral area.



Presentation

The person holding the presentation is placed in the focus of the light, with luminance levels continuously decreasing towards the presentation area.



Orientation

Dimmed LED lighting modules, either to the left or the right end of the luminaire, ensure architectural lighting and provide orientation in the room.



Pure direct or indirect lighting

A SEQUENCE luminaire with purely indirect light distribution brightens up the room with a small artificial light component. Pure direct light protects against glare when looking at the luminaire from above.

Zumtobel Lighting Services

Added value thanks to professional service

Aspiring to provide the best possible light for people and the environment, Zumtobel caters for customers' requirements individually – especially in the area of service. Divided into various areas and packages, Zumtobel offers professional support as required. All types of services offered can be adjusted to the customer's individual needs, providing maximum benefits and measurable added value.

NOW! Light that pays for itself.	
Lighting Performance Platform	
Basic commissioning	
ONLITE maintenance	
Lighting management maintenance	
Training courses	

Attractive complete package NOW! will help you switch to an advanced LED lighting solution with intelligent lighting control without any extra costs. You need neither take care of the replacement of luminaires nor of commissioning or maintenance of the system. Far from it: you can even use part of the electricity costs saved in order to reduce current operating costs immediately. LIGHT AS A SERVICE Valid information on energy consumption The Lighting Performance Platform is an online solution by Zumtobel which provides consumption data of buildings and rooms at a glance. Perfectly matched to Zumtobel lighting management systems, the monitoring tool points the way to energy-efficient solutions. Ideal starting conditions Zumtobel supports its customers through all stages of a project, starting with professional commissioning of the lighting control and emergency lighting systems. Certified commissioning and service engineers ensure that individual customer requirements are implemented to optimum effect and efficiency. CONTROL SERVICES Reliably serviced emergency lighting Statutory maintenance of emergency lighting systems requires plenty of time as well as high-precision work. An emergency lighting maintenance agreement will spare you this task. Well-trained service engineers will take charge of any maintenance work: from checking emergency luminaires through to professional tests and checks of the emergency lighting system. CONTROL SERVICES Perfectly appropriate settings at all times A professional lighting control system caters for individual needs - even if the requirements of a building and the people in it change over the course of time. Professional service makes sure your lighting control system will be continuously checked and adjusted if required. This ensures optimised energy efficiency, an increase in lighting quality and a high degree of safety and security. Learning from lighting experts Anyone who understands the way a lighting management system works and needs to be controlled and maintained can exploit its full energy saving potential. This applies to all people who have to deal with lighting control systems: users, facility managers and service engineers. Zumtobel

provides a full range of training courses.

LITECOM controller



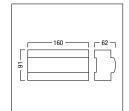
• LITECOM System Controller with integrated web server for configurating and operating a LITECOM system

For individually controlling up to 3 x 64 DALI-compatible dimmable ballasts

- Extendable with the LM Bus to up to 250 addresses
- Integrated DALI bus supply
- LM bus supply (20 975 247 LM-BV or 22 115 026 LM-BV35) must be ordered separately
- Ethernet (TCP/IP) network connection

Order no.

LITECOM CCD 28 000 258



LITECOM touch panel

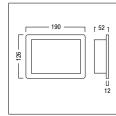


• 7" touch panel for intuitive operation and configuration of LITECOM systems

- · Complete access to web-based LITECOM user interface
- Pre-installed app for automatic connection to a LITECOM CCD
- Colour display with 800 x 480 image resolution
- Android operating system
- Integrated LAN connection
- suitable for recessing in walls and cavities

Order no. Control and commissioning panel LITECOM Touchpanel TCI 28 000 262 SUP24VDC/1,5A 24 V power supply 22 161 814





LITECOM infinity generic



LITECOM INF base license

Order no.

Order no.

LITECOM infinity daylight



- Sensor assignment to controlled
- Setting of definable light atmospheres as daylight-dependent atmospheres
- Setting of specifically required brightness values per room/group and atmosphere
- Setting of daylight control curves per room/group

LITECOM INF daylight 1.000	22 169 601
LITECOM INF daylight 10.000	22 169 604
LITECOM INF daylight 100.000	22 169 607
LITECOM INF daylight 2.000	22 169 602
LITECOM INF daylight 20.000	22 169 605
LITECOM INF daylight 250	22 169 599
LITECOM INF daylight 5.000	22 169 603
LITECOM INF daylight 50.000	22 169 606
LITECOM INE daylight 500	22 169 600

LITECOM software 39

LITECOM infinity daylight TLM



Sensor assignment to controlled room

 Setting of definable light atmospheres as daylight-dependent atmospheres

- Setting of specifically required brightness values per room/group and atmosphere
- Setting of daylight control curves per room/group

LITECOM INF daylight TLM 1.000	22 169 610
LITECOM INF daylight TLM 10.000	22 169 613
LITECOM INF daylight TLM 100.000	22 169 616
LITECOM INF daylight TLM 2.000	22 169 611
LITECOM INF daylight TLM 20.000	22 169 614
LITECOM INF daylight TLM 250	22 169 608
LITECOM INF daylight TLM 5.000	22 169 612
LITECOM INF daylight TLM 50.000	22 169 615
LITECOM INF daylight TLM 500	22 169 609

Order no.

Order no.

Order no.

Order no.

LITECOM infinity Blind Management



- Sensor assignment to controlled room or facade
- Setting of curtain position and slat position depending on position of the sun, condition of the sky and exterior brightness

LITECOM INF Blind Mgmt 1.000	22 169 619
LITECOM INF Blind Mgmt 10.000	22 169 622
LITECOM INF Blind Mgmt 100.000	22 169 625
LITECOM INF Blind Mgmt 2.000	22 169 620
LITECOM INF Blind Mgmt 20.000	22 169 623
LITECOM INF Blind Mgmt 250	22 169 617
LITECOM INF Blind Mgmt 5.000	22 169 621
LITECOM INF Blind Mgmt 50.000	22 169 624
LITECOM INF Blind Mgmt 500	22 169 618

LITECOM infinity SL



- RGB luminaires with 3 or 4 actuators (RGB or RGB-W)
- Balance luminaires with 2 actuators (direct/indirect)
- Tunable White luminaires with 2 or 3 actuators (cool white, warm white, white)
- Brightness and colour
- Brightness and balance
- Brightness and colour temperature with Tunable White, as assembled luminaire

LITECOM INF SL 1.000	22 169 628
LITECOM INF SL 10.000	22 169 631
LITECOM INF SL 100.000	22 169 634
LITECOM INF SL 2.000	22 169 629
LITECOM INF SL 20.000	22 169 632
LITECOM INF SL 250	22 169 626
LITECOM INF SL 5.000	22 169 630
LITECOM INF SL 50.000	22 169 633
LITECOM INF SL 500	22 169 627

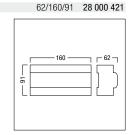
LITENET light actuators

DALI Gateway, switch cabinet



- For individual control of up to 3 x 64 DALI-compatible dimmable ballasts that can be assigned any LUXMATE address
- With integral DALI power supplies
- With integral LM-BUS power supply
- Ethernet (TCP/IP) network connection
- Installed on EN rail 35 mm
- For connecting an ED-SENS or ED-EYE sensor and ED-CSx and ED-SxED operating units

LM-3DALIS2 62/160/91 **28 000 42**1



L/W/H

LM-CIRIA wall-recessed control point



- Control panel for intuitive control and programming of LUXMATE rooms
- Up to 20 scenes can be configured and called up
- Can be used to operate up to 10 devices (lighting, blinds etc.)
- User-configurable display (scene icons, text etc.)
- Fully enclosed housing with black-and-white glass front and plastic surround in black, white and chrome
- Operated by touching the glass surface of the OLED display (capacitive sensor); contains dimming ring and ON-OFF button
- Installed in single Euro box to DIN 0606 of minimum depth 50 mm

Control device

LM-CIRIA BK black
LM-CIRIA WH white

130/92/50
22 162 349

|...| Shared properties Circle control point, square-edge design, wall-recessed

- Control point for running 3 scenes, and for controlling light level and blinds
- Printed with neutral symbols "1", "2" and "3" for general applications
- Certain auxiliary functions such as

saving of scenes, for instance, can be enabled

 Installed in single Euro socket, dimensions to DIN 0606
 (Ø 60 mm, depth 42 mm), or UK metal backbox (not included with product)

 Variant (V): customised combination of key sets from the intuitive LUXMATE icon collection (see data sheet)

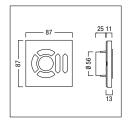
LM Circle control point, square-edge design, wall-recessed



• |...

 Supplied from external 24 V DC power pack or via LUXMATE bus (counts as 14 x bus load for LM-BV bus supply etc.)

	L/ **/11	01001110.
Light level and drapes		
LM-CCB 1/2/3 Li/Be anthracite	87/87/13	22 154 677
LM-CCW 1/2/3 Li/Be white	87/87/13	22 154 676
Variant		
LM-Cxx (V)	87/87/13	28 000 006

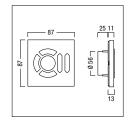


ED Circle control point, square-edge design, wall-recessed



- |...
- Power supply via DALI line (3 DALI loads)
- No DALI addresses occupied
- For use with LM-3DALIS and LITENET netlink

	L/W/H	Order no.
Light level and drapes		
ED-CCB 1/2/3 Li/Be anthracite	87/87/13	22 154 665
ED-CCS 1/2/3 Li/Be silver	87/87/13	22 154 663
ED-CCW 1/2/3 Li/Be white	87/87/13	22 154 664
Light level (2x)		
ED-CCB 1/2/3 Li1/Li2 anthracite	87/87/13	22 161 828
ED-CCS 1/2/3 Li1/Li2 silver	87/87/13	22 154 657
ED-CCW 1/2/3 Li1/Li2 white	87/87/13	22 154 658
Variant		
ED-Cxx (V)	87/87/13	28 000 007



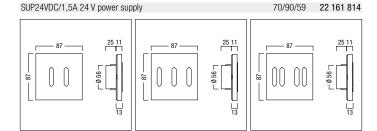
42 System components, operation

LM rocker switch, square-edge design, wall-recessed



- Control unit for 2, 3 or 4 individual light groups
- Printed with light symbol
- Power supply via external 24 V DC power supply or via LUXMATE bus (3-times bus load for LM-BV bus supply etc.)
- Installed in single Euro socket, dimensions to DIN 0606 (Ø 60 mm, depth 42 mm), or UK metal backbox (not included with product)
- Option: switches can be printed with symbols for blinds and combination of lighting and blinds groups; symbols must be specified with order

	L/W/H	Order no.
2 rocker-switches, light		
LM-RCB2 Li anthracite	87/87/13	22 161 843
LM-RCS2 Li silver	87/87/13	22 161 837
LM-RCW2 Li white	87/87/13	22 161 831
2 rocker-switches, option		
LM-RCB2 (V) anthracite	87/87/13	22 161 844
LM-RCS2 (V) silver	87/87/13	22 161 838
3 rocker-switches, light		
LM-RCB3 Li anthracite	87/87/13	22 161 884
LM-RCS3 Li silver	87/87/13	22 161 839
3 rocker-switches, option		
LM-RCB3 (V) anthracite	87/87/13	22 161 885
LM-RCS3 (V) silver	87/87/13	22 161 840
LM-RCW3 (V) white	87/87/13	22 161 834
4 rocker-switches, light		
LM-RCB4 Li anthracite	87/87/13	22 161 886
LM-RCS4 Li silver	87/87/13	22 161 841
4 rocker-switches, option		
LM-RCB4 (V) anthracite	87/87/13	22 161 887
LM-RCS4 (V) silver	87/87/13	22 161 842
LM-RCW4 (V) white	87/87/13	22 161 836



Infrared remote control



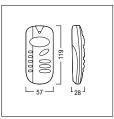
- For easy configuration and control of a LUXMATE room
- ON / OFF / dimming (1–100 %)
- 3 scenes can be configured and called up
- Control of 5 services as required
- Encoding switch for IR channel allocation
- Plastic housing, halogen-free, grey (RAL 7021)
- Includes wall bracket and batteries

Remote control

IRTOUCH Infrared remote control for ED-SENS sensor

L/W/H Order no.

119/57/28 22 154 450



...| Shared properties Input (momentary-action/standard switch...) control cabinet

- 4 inputs for momentary-action and standard switches, motion detectors and other contactmakers
- Change between "Absent" and "Present" scenes
- For assigning inputs to rooms or individual groups
- Adjustable switch-off delay
- Installed on EN rail 35 mm
- In the LM-4UAS multifunction unit, the functions and properties of the

inputs can be modified using the additional commissioning tool

 Options: different functions and properties can be specified when ordering

L/W/H

Order no.

Order no

Order no.

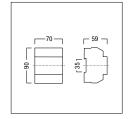
Order no.

Input (momentary-action switch/standard switch etc.) 230 V, switch cabinet



- |...|
- For 230/240 V AC mains voltage

4 motion-detector inputs for scene changing		
LM-4AWS	70/90/59	22 154 488
Four universal inputs		
LM-4UAS	70/90/59	22 154 732



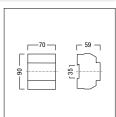
I/W/H

Input (momentary-action switch/switch) 24 V, switch cabinet



- |...|
- For 24 V AC operating voltage

Four universal inputs
LM-4UAS2 24 V AC 70/90/59 22 154 734

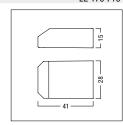


4-way input (switch, switch-dim, switch-changeover), recessed



- Switch, switch/dim, switch-changeover input with 4 independent inputs for running scenes and dimming using conventional momentary-action switches.
 Momentary-action switch input for opening and closing windows using conventional (dual) mom-action switches
- Function can be configured for each input
- Installed in standard flush socket
- Power cable 30 cm max. (not included)

ED-SxED 4-way 22 176 716

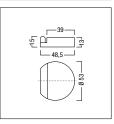


Universal input (momentary-action switch), installed in luminaire/ceiling



- For electronic and EIB/KNX switch
 1 x 4 x with LED
- Change between "Absent" and "Present" scenes
- Dimming of room lighting or a group of luminaires
- Feedback via LED key switch
- Assignment to room or group of rooms
- Supply via external 24 V DC power pack or via LUXMATE bus (13-fold bus load for LM-BV bus supply etc.)
- Connection via 10-pin PCB connector
- Installed behind switch in back box (35 mm)

Universal input LM-4UAD 15/53 22 154 508



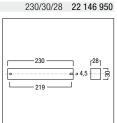
44 System components, light actuators

DALI control unit (LM-bus), installed in luminaire/ceiling



- For individual control up to 64 DALI-compatible ballasts to which any LUXMATE address may be assigned
- Installation: in luminaire/in the ceiling void

	L/W/H	Order no.
Control device		
LM-DALI	230/30/2	8 22 146 950



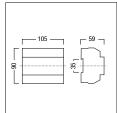
DALI control module (LM-bus), switch cabinet



- For individual control up to 64 DALI-compatible ballasts to which any LUXMATE address may be assigned
- Installed on EN rail 35 mm

 L/W/H
 Order no.

 Control device
 LM-DALIS
 105/90/59
 22 146 963



Order no.

Order no.

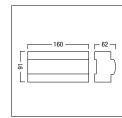
Order no.

DALI control module 3x (LM-bus), switch cabinet



- For individual control of up to 3 x 64 DALI-compatible dimmable ballasts that can be assigned any LUXMATE address
- With integral DALI power supplies
- Installed on EN rail 35 mm
- For connecting an ED-SENS or ED-EYE sensor and ED-CSx and ED-SxED operating units





L/W/H

L/W/H

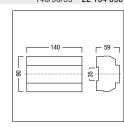
DALI control module (LM-bus, momentary-action switch), switch cabinet



- For connecting up to 64 DALI dimmable ballasts per output
- All DALI ballasts connected to the same output are switched and dimmed synchronously
- Key switch input for calling up scenes
- Installed on EN rail 35 mm

Control device

LM-3DLIS 3 DALI outputs 140/90/59 22 154 096



L/W/H

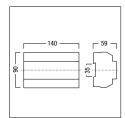
DSI control module (LM-bus), switch cabinet



- For connection of a max. of 100 digital control gear per output
- Operated manually by using omentary-action switch
- Installed on EN rail 35 mm

Control device

LM-3DSIS 3 DSI outputs 140/90/59 22 114 395



Order no.

DSI control unit (LM-bus), installed in luminaire/ceiling



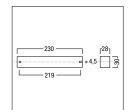
- For connection of a max. of 10 digital control gear per output
- Installation: in luminaire/in the ceiling void
- LM-BLS: to control light centre of Balanced Light luminaires

Control	device	

LM-DSI 1 output

230/30/28 20 975 301

L/W/H



BASIC/DIMLITE lighting actuators

DALI amplifier, installed in luminaire



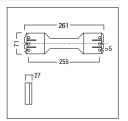
 For amplifying the DALI signal and connecting an extra 64 DALI-compatible ballasts

- Installation: in luminaire/in the ceiling void
- No feedback on lamp faults

Amplifier DALI-V

22 176 496

Order no.

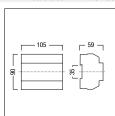


Analogue control module (LM-bus), switch cabinet



- For control of 2 mutually independent luminaire groups with analog control gear
- Additional 16 A switching contact per output
- Installed on EN rail 35 mm

	L/W/H	Order no.
Control device		
LM-2ANAS	105/90/59	22 115 166



Order no.

Order no.

Order no.

Order no.

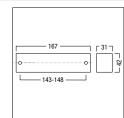
Phase dimmer (DALI/DSI/momentary-action switch), installed in luminaire/ceiling



- Phase dimmer up to 500 VA max.
- Automatic load recognition (leading/trailing edge control)
- Control via DALI/DSI signal or momentary action switch
- Installation: in luminaire/in the ceiling void

Phase-control dimmer

APDX-500 Leading / trailing edge 167/42/31 22 154 224



L/W/H

Phase dimmer (DALI/DSI/momentary-action switch), switch cabinet

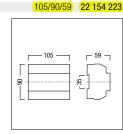


- · Phase dimmer with a max. of 1000 VA
- Automatic load recognition (leading/trailing edge control)
- With Preset function: stores and calls up any light level
- Control via DALI/DSI signal or momentary action switch
- Installed on EN rail 35 mm

Phase-control dimmer

Relay output

APDS-1000 Leading / trailing edge



L/W/H

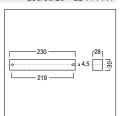
L/W/H

Relay output (LM-bus), installed in luminaire/ceiling



- For switching luminaires and electrical loads
- Installation: in luminaire/in the ceiling void
- LM-2RUK with 2 independently switchable contacts
- Max. total current load of both contacts 8 A

Relay output LM-1RUK 1 output 230/30/28 22 115 010 LM-2RUK 2 outputs 230/30/28 22 114 777

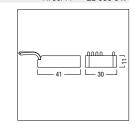


Relay output (DALI) assembly



- · Relay contact for connecting luminaires and electrical consumers
- 25 cm connecting cable
- Current load 1 x 4 A (cosPHI = 1)
- Installation: in ceiling void/dado trunking
- Resistive loads only: incandescent bulb 500 W, HV halogen 500 W
- One relay occupies 10 DALI loads

EMOTION-1RUK 1 output 41/30/11 22 066 047



I/W/H

Order no.

Order no.

Order no.

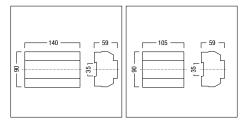
Order no.

Relay output (LM-bus), switch cabinet



- For switching luminaires and electrical loads
- Installed on EN rail 35 mm
- LM-3RUKS with 3 independently switchable contacts, 16 A each
- LM-4RUKS with 4 separately switchable contacts, 10 A each (cosPhi = 1)

Relay output		
LM-3RUKS 3 outputs	140/90/59	20 735 397
LM-4RUKS 4 outputs	105/90/59	22 154 120



L/W/H

L/W/H

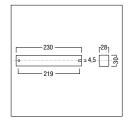
DSI amplifier, installed in luminaire



- · For amplification of the DSI signal and connection of additional 50 DSI-controllable control gear
- Installation: in luminaire/in the ceiling void

Amplifier

230/30/28 20 975 705 DSI-V

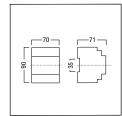


Blinds control unit 4x (LM-bus), control cabinet



- For controlling 4 separate ac drives; Control device suitable for window hangings fitted with 2 mechanical limit switches
- Travelling up / down and slat positioning relative to position of sun using higher-order automation systems
- Installed on EN rail 35 mm

72/91/72 22 162 346



I/W/H

Blinds control unit 2x (LM-bus, momentary-action switch)

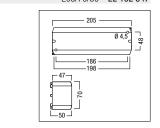


- For controlling 2 separate ac drives; Control device suitable for window hangings fitted with 2 mechanical limit switches
- Two addressable, local momentary-action switch inputs
- Travelling up / down and slat positioning relative to position of sun using higher-order automation systems
- Installed on EN rail 35 mm

LM-2JASX

205/70/50 22 162 347

L/W/H



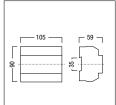
Relay output unit (LM-Bus), for installation in control cabinet



- Relay output changeover 10 A (2 x) with two isolated changeover contacts for controlling external voltages (DC or AC voltages)
- Installed on EN rail 35 mm

Order no.

LM-2WKS 22 185 306



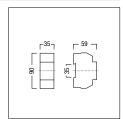


Bus supply room, switch cabinet



- For voltage supply to a bus domain with a maximum of 35 terminal points
- Installed on EN rail 35 mm

LM-BVS35 35/90/59 **22 115 026**



Order no.

Order no.

Order no

Order no.

Order no.

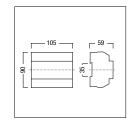
L/W/H

Bus supply building, switch cabinet



- For voltage supply to a bus domain with a maximum of 100 terminal points
- Installed on EN rail 35 mm

LM-BV 105/90/59 **20** 975 247



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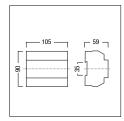
L/W/H

Sensor input (weather), switch cabinet

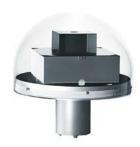


- Installed on EN rail 35 mm
- LM-4WZS 4-way sensor input for wind speed and direction, outside temperature and precipitation
- LM-SB: basic sensor package for installation of wind speed, wind direction, outside temperature and precipitation sensors. For each LM-4WZS, one basic package is required.

	L/ W/ II	order 110.
Sensor input		
LM-4WZS	105/90/59	22 154 128
Sensor		
LM-SN Precipitation sensor		22 154 283
LM-SR Wind direction sensor		22 154 285
LM-ST Temperature sensor		22 154 284
LM-SW Wind speed sensor		22 154 286
Basic package		
LM-SB Basic package sensor installation		22 154 282

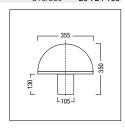


Sensor (light) outdoor



- External daylight sensor for measuring daylight levels for daylight-based adjustment of artificial lighting and position of blinds (slats)
- Installed on pole Ø 42-50 mm
- Used in conjunction with LRA-1500(x) and LRA-150S

LM-TLM 310/350 **20 724 105**



H/Ø

ED sensor (light), surface-mount



- The light sensor measures the daylight entering the room
- Power supply via DALI line (2 DALI loads)
- Installation: surface-mounted on ceiling
- No DALI addresses occupied
- For use with LM-3DALIS and LITENET netlink

ED-EYE Light sensor 24/80 22 154 682



Sensor (radio) surface-mount/recessed



 Radio receiver picks up switch commands from up to 60 EnOcean momentary-action switches within specified receive radius

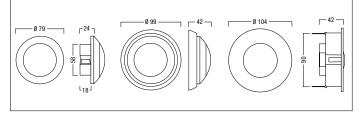
- Range approx. 10 metres
- Housing: halogen-free white plastic (RAL 9003)
- Mains voltage supply
- Ceiling-mounted in Euro/standard single back box; fitting accessories for surface-mounting and recessed-mounting included
- Momentary-action switch material: all those that can be fitted with EnOcean sender modules, models PTM100, PTM200 and PTM250

H5101-A222 Enocean single blinds unit, aluminium		22 185 307
Sensor		
LM-RFR	42/104	22 154 466
Switch unit		
H5101-A210 Enocean 1-way momentary-action switch, white		22 154 638
H5101-A211 Enocean 1-way momentary-action switch, anthracite		22 154 637
H5101-A212 Enocean 1-way momentary-action switch, aluminium		22 154 639
H5101-A230 Enocean 2-way momentary-action switch, white		22 154 636
H5101-A231 Enocean 2-way momentary-action switch, anthracite		22 154 635
H5101-A232 Enocean 2-way momentary-action switch, anthracite		22 154 634

49

Order no.

Order no.



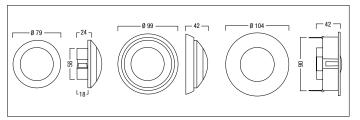
Sensor (infrared, presence), surface-mount/recessed



- Presence detector and integrated infrared interface
- Housing: halogen-free white plastic (RAL 9003)
- Detection range at 2.5 m mounting height: 8 m Ø
- Power supply via DALI line (4 DALI loads)
- Ceiling-mounted in Euro/standard single back box; fitting accessories for surface-mounting and recessed-mounting included
- Up to 3 IRTOUCH remote control units with different configuration
- For use with LM-3DALIS and LITENET netlink
- No DALI addresses occupied

Sensor

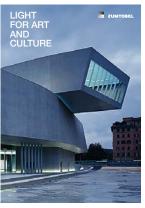
ED-SENS Presence and infrared sensor 22 154 506







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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.

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- Health and Care
- Industry and Engineering
- Façades and Architecture



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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

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ZUMTOBEL



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