

B.E.G. LUXOMAT® net



DALISYS – Intelligent Lighting Control and more

DALISYS – The Building Solution

What is DALISYS?

DALISYS is an innovative bus system for lighting control based on DALI, comparable in flexibility and functionality with KNX, but less expensive, simpler and reliable in operation. Our large range of DALISYS occupancy detectors offers the right detector for applications in all types of buildings, from single rooms to high-bay warehouses. DALISYS is open to other building automation systems via BACnet/IP.

What is the difference between DALISYS and many other DALI systems?

The distributed intelligence. While other systems often use simple sensors needing further controllers, the B.E.G. multi-master sensors can control DALI luminaires and other actuators thanks to their own intelligence. The decentralised control of DALISYS improves system stability and simplifies configuration considerably.

What does DALISYS offer?

Regardless of the project size DALISYS can take complete control of the DALI Lighting. It provides:

- blind actuators
- actuators for HVAC applications, and the possibility
- to manage DALI emergency lights via DALISYS
- the DALISYS visualisation server "ViStation"





The stairway is entered at the bottom floor. Immediately, groups 1 and 2 activate their main lights, and group 3 activates its orientation lighting. While the stairway is being used, the main light is always on for the floor where the user is, and for the floors directly above and below. Two floors above and below, the orientation lighting is also on but dimmed. After the user has left the stairway at the fourth floor, the groups switch off in sequence.

What does the software offer?

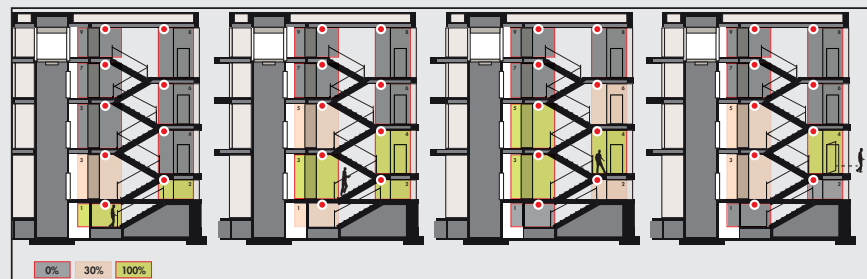
- Guided Light Plus => it has never been easier to realise a thinking ahead following light over several DALI loops
- comprehensive management and convenience functions with the DALI router
- calendar function
- energy monitoring
- messaging services

and much more (see page 6 / an overview of all functions)

Is support offered during the realisation of a DALISYS project?

B.E.G.'s project department and its experienced DALISYS integration service offer assistance and support from the very first idea through the planning process to commissioning and final acceptance on site.

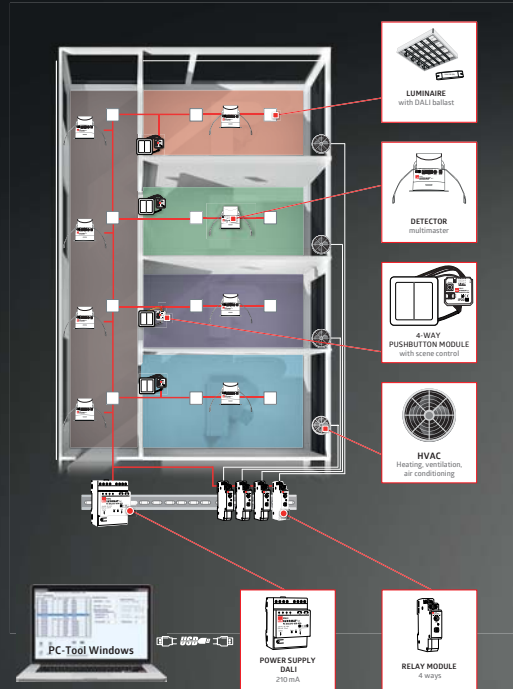
Sample scene Guided Light PLUS



Installation example – multi-room solution

This solution is ideal for small buildings, warehouses, open plan offices, multi-floor offices, stairways etc. with simple or complex requirements for modern lighting control. Commissioning is carried out with an intuitive PC tool (Windows) via the DALI power supply as a rail-mounted device with integrated USB interface. In this way, using a convenient user interface, for example on a laptop, up to 64 DALI components can be addressed, up to 16 groups can be formed and up to 16 scenes configured.

With the multi-room solution, the "Guided Light" function can be used to synchronise movement detection across groups. The high-performance 210mA DALI power supply can drive lighting devices from any manufacturer, B.E.G. relay modules, B.E.G. multisensors and B.E.G. pushbutton modules. Deployment of B.E.G. multisensors is limited to a total of eight, if they are to regulate one zone according to ambient light.



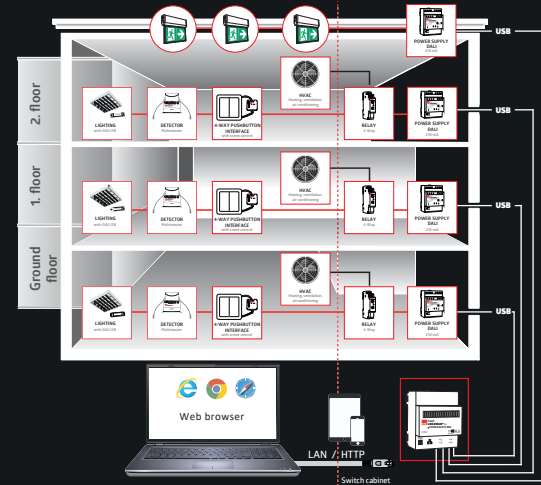
One single DALI line, auto-addressing, max. length 300m
Max. 64 devices, 16 groups, 8 regulation zones
Commissioning and maintenance via USB



Installation example – building solution



With up to 100 DALI routers each with 4 integrated USB interfaces, in practice 400 interconnected DALI lines can be set up over a local network (LAN/Ethernet). The benefit from this is firstly to enable central management of the entire decentralised lighting control system – including emergency lighting – in one or more buildings. Secondly, lighting control can be automated on a time basis using the calendar function, and maintenance processes can be streamlined thanks to the email reporting system – for example lamp faults. In addition, the “Guided Light PLUS” function is available, which can synchronise lighting control triggered by motion detection not only across groups, but also across DALI lines, meaning there are no more limits to proactive, people-oriented lighting control. The energy monitor enables continuous monitoring. Analysis and information on energy consumption and the update function offer additional protection of your investment through regular optimisation and additional functionality.



A “B.E.G. Mesh”, consisting of up to 100 DALI routers
Max. 100 x 4 DALI lines, 400 x 64 devices, 400 x 16 groups,
400 x 8 regulation zones
Commissioning, maintenance, monitoring, time-based control,
reports, emergency light management via LAN/Ethernet

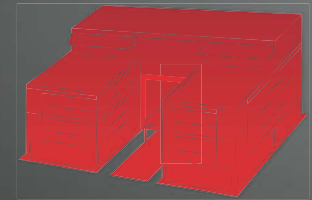
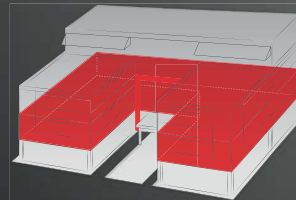
Overview of all features

FEATURES

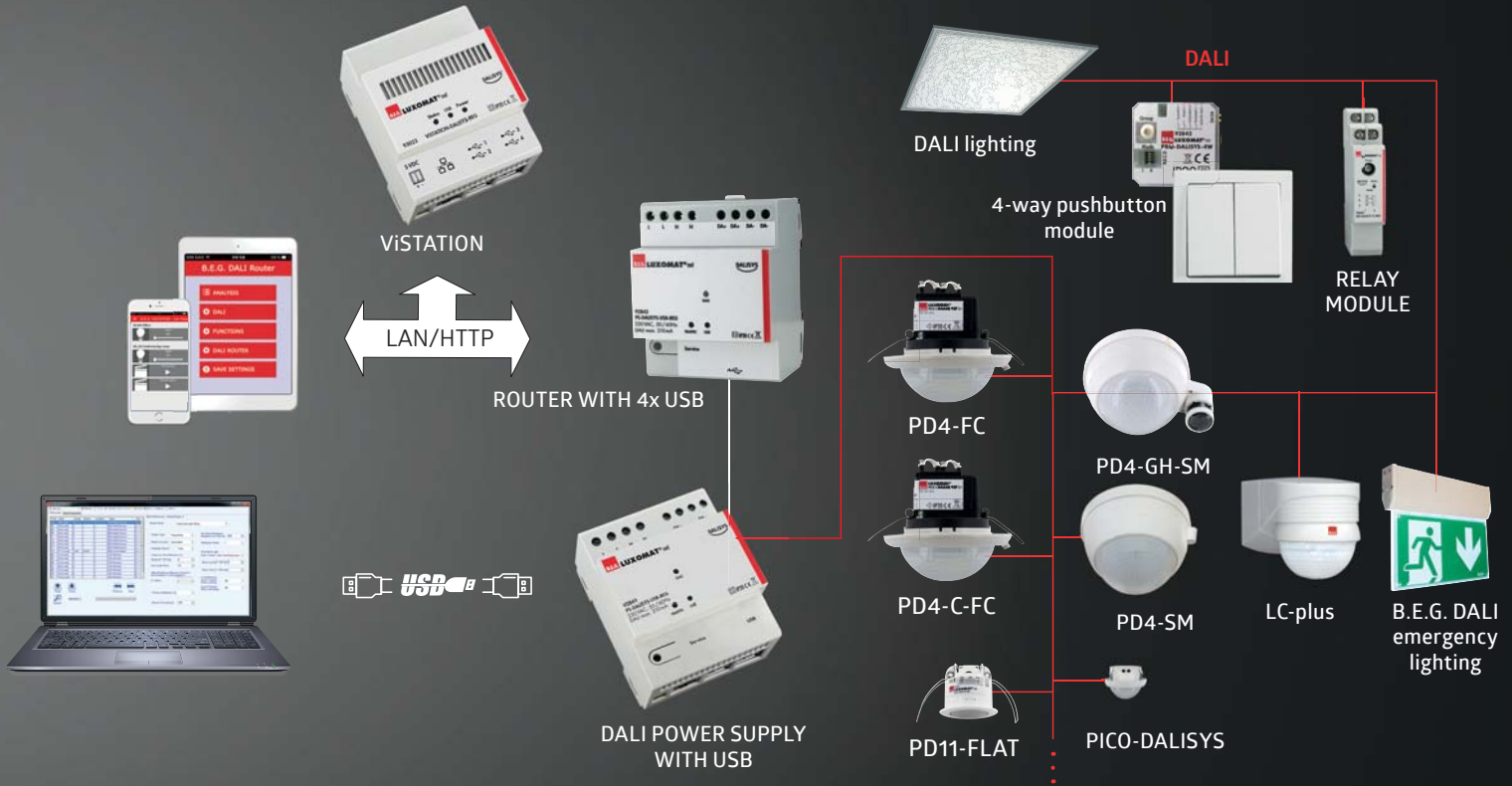
- Networkable, modular multimaster design
- Combines management of normal lighting and emergency lighting, control of blinds and HVAC functions on one platform
- Decentralised control with distributed Intelligence, to provide a high level of operational reliability
- B.E.G. multisensors have no power supply, and are master and slave in one unit
- Visualisation and central functions available without an upstream BMS
- BMS connection available via BACnet
- Planning, commissioning and maintenance by B.E.G.

FUNCTIONS

- Scene control
- Occupancy-dependent control of light and heating, ventilation and air-conditioning units
- Constant light regulation
- Orientation light PLUS
- Soft Start PLUS
- Emergency Light management, including self test and reporting
- Control of blinds
- Guided Light PLUS
- Super-flat sensor available (PD11)
- Central functions: email reporting, calendar function, energy monitoring
- ViSTATION – visualisation with user administration and virtual user terminals
- BACnet interface



Product overview



The worry-free option

Various DALISYS components are pre-mounted and pre-wired by B.E.G. in an enclosure. The installer only has to connect the input and output wires to a labelled terminal block.

DALISYS offers a wide variety of options for combining devices and functions, which can be selected and set up according to local requirements and the building concerned. B.E.G. will plan the perfect solution for your project with you. If you tell us your requirements, our experts can plan a suitable DALISYS configuration in your CAD files. All the way from the first drawing to commissioning, we will be by your side with help to achieve our common goal: satisfied customers.

Are you interested in DALISYS?

We look forward to seeing your project:

Phone: +49 / (0)2266-90121-0
Internet: www.beg-luxomat.com



The specialists

PICO-DALISYS-FC

The PICO-DALISYS-FC is even smaller than the world's smallest KNX occupancy detector. With dimensions of only 33mm x 30mm (height) and a mounting depth of only 11mm, the PICO-DALISYS occupancy detector is suitable for many mounting options, and in particular the detector can easily be integrated into light fittings. Despite its small size, the detector has a surprisingly large detection area of 10m (diameter) at a 2.5m mounting height. Thanks to its built-in intelligence, it offers all the features of the larger DALISYS detectors, such as 2-zone constant light regulation, orientation light and Guided Light. B.E.G. also offers these detectors in a DALI-2-BMS version for DALI controllers from other manufacturers.

Part-Nr.: 93345



Part-Nr.: 93909

PD4-DALISYS-GH-SM

The tried and tested PD4-M-GH family with an enormous motion detection area of up to 44m diameter (at a mounting height of up to 14m) is now extended with new DALI variants. As well as a DALI compact variant, there is also now a PD4-GH variant for DALISYS and DALI-2-BMS. The high point: the new variants of the GH family now offer an external light sensor with telescope function, which enables constant light regulation up to a 16m mounting height. The light sensor's detection area can be adjusted simply by pulling out the telescope light sensor to the relevant mounting height. Through better integration of daylight and a dimming option, these new detectors can save even more energy in many applications such as high-bay warehouses.

The ViStation

The B.E.G. visualisation solution for DALI-SYS offers exactly what is needed for the vast majority of applications.

Using your plans, graphics, photos or drawings, we will produce an individual visualisation for you. All lights, multisensors and other relevant DALISYS components are registered at the factory and the end customer receives a ready-to-go visualisation with an informative display that also allows manual intervention. The platform-independent web interface for PC, tablets and smartphones allows for various use scenarios. User management and permissions allocation take place centrally at the ViStation, and both the systems integrator and the end-customer can assign a practically unlimited number of users and roles.



Show defective lamps at a glance



Monitor lighting conditions in real time



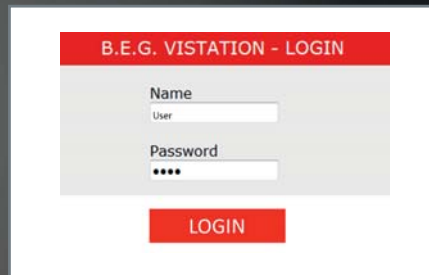
Function overview



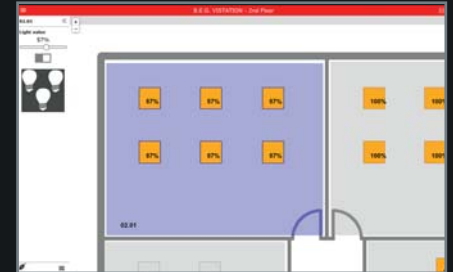
The presence of people can also be checked, as if there is enough daylight, the lighting is switched off despite people being present.



The ViStation offers powerful user management with different roles.



Depending on permissions, lighting can be controlled manually building-wide, for example.



Or users can have permissions only for “their” rooms or other approved rooms.



DALISYS

Intelligent lighting control

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