

DIMLITE daylight DALI/DSI daylight/PIR control unit

Art. no. 22162195

Device for controlling up to two luminaire groups, each containing up to 25 DALI or DSI compatible lamp control gear units.

Application

DIMLITE daylight is used for controlling two luminaire groups, each containing 25 DALI or DSI compatible lamp control gear units. Single or dual momentary-action switches can be used to operate each group simultaneously in broadcast mode (no addressing). The control unit dims the luminaires according to the amount of daylight available in the room. This is done by detecting the brightness level outdoors using the LSD light sensor and programmed control curves. In addition, it can be used to save a lighting scene or alternatively can be connected to a standard motion detector. The motion detector can be integrated in three different operating modes (ON+OFF, only OFF, corridor mode).

Design notes

- The DIMLITE daylight outputs are DALI or DSI broadcast – no addressing needed during commissioning. The group assignment is made by the wiring of the lighting actuators.
- Up to 25 devices per output channel, no combination of DALI and DSI
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- If required, several momentary-action switches can be wired in parallel. On the other hand, one momentary-action switch cannot be used to control more than one DIMLITE daylight.



The DIMLITE daylight has a memory for saving the dimming level (lighting scene), which means that the last lighting level before switching off the lighting is restored when the lighting is turned back on.

- The LSD device must be used as a light sensor.
- The non-isolated 230V motion detector can be operated in three different modes: OFF: the motion sensor only switches off, ON+OFF: the motion sensor switches the lighting system both on and off again, ON+CORR.: the lighting installation always runs in reduced continuous mode (10%) and only increases the lighting level to 100% during each occupancy phase. Mode is set using a jumper on the control unit.
- A momentary-action switch can be used for a lighting scene or a switch as motion detector.
The control curves are programmed by pressing a button on the LSD light sensor.
- Fade over speed can be set between 0 and 1 second.
- Configuration facility can be blocked.

Functional description

Manual dimming

Two momentary action switches or just one can be connected to the terminals T+/T-. When one momentary action switch is used, connect the two terminals T+/T- together. The lighting can be switched and dimmed via one momentary-action switch. A touch on the switch switches between OFF and the previous lighting level; holding down the switch dims the light. For a dual momentary-action switch, a dedicated switch is used for dimming up and down; for a single momentary-action switch the dimming direction changes each time you operate the switch.

Automatic daylight tracking

The LSD light sensor detects the brightness level outdoor and controls the two luminaire groups using programmed control curves. Manual dimming during daylight tracking temporally alters the control curves.

Lighting scene

In addition, there is the option of connecting a momentary-action switch to the "Sc" scene input. This can be used for ready retrieval of a preferred, stored lighting level.

Occupancy (PIR) control

Please also consult the additional information on the next page

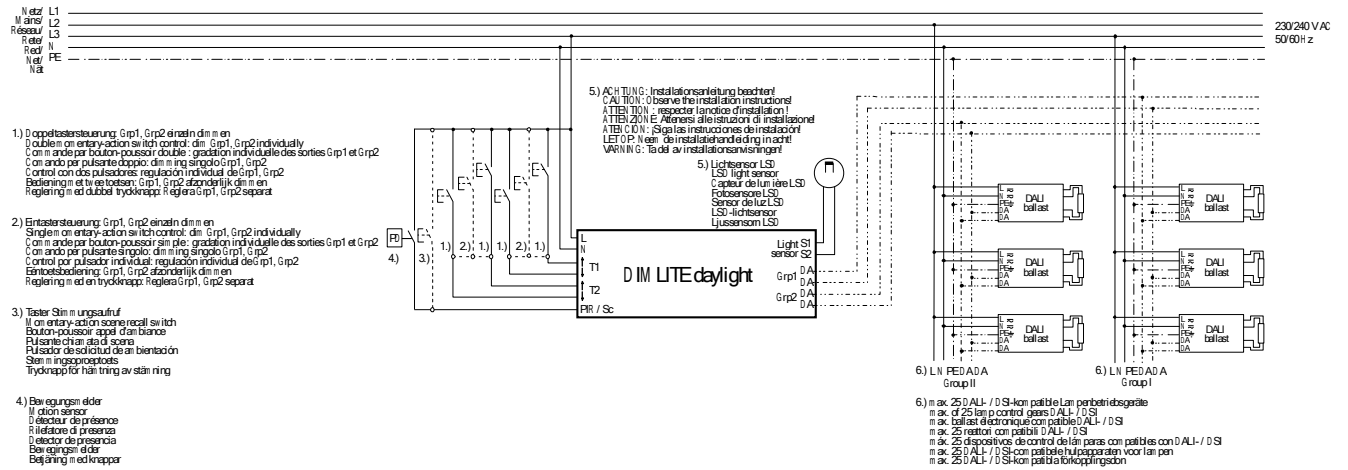
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Wiring scheme



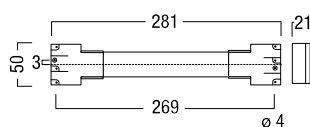
Mounting and installation instructions

- Install the DIMLITE control unit in luminaires, or in ceilings and cable ducts (must be fitted with the strain relief devices supplied).
- The phase (L) applied to the inputs must be the same as that used for the power supply of the DIMLITE control unit.
- Any number of momentary-action switches / motion detectors can be connected in parallel with one input (T1, T2 PIR/Sc). It is not possible to connect motion detectors and momentary-action switches simultaneously to the PIR / Sc input.
- Do not connect standard switches to the inputs (T1, T2, PIR/Sc).
- A momentary-action switch / motion detector must not be connected to more than one DIMLITE control unit at once.
- Connect the mains supply directly to the L and N terminals without relay switching.
- It is not possible to run DALI and DSI control gear simultaneously from the same DIMLITE control unit.
- The DSL/DALI signal is transmitted using functional extra-low voltage (not safety extra-low voltage) We recommend the use of installation parts designed for 230/240 V AC, 50/60 Hz mains installation (e.g. NYM 2 x 1.5 mm² or H05W-U2 2 x 1.5 mm²).

Technical data

Nominal voltage	230/240 V AC, 50/60 Hz
Permitted input voltage	207 ... 264 V AC, 50 ... 60 Hz
Power loss	< 1.2 W
Inputs	2 momentary-action switch inputs T1, T2 (230/240V AC, 50/60Hz)
Outputs	Grp1, Grp2 (luminaire groups)
DSI signal	12 V clocking (Manchester code)
DALI signal	16 V clocked (Manchester code)
Mains wiring	H05VV-U 2 x 1.5mm ²
Control range	0; 1-100 % (relative luminous intensity)
Terminals	0.5–1.5 mm ² (single or stranded wire)
Protection type	IP20
Protection class	Class II
Housing material	polycarbonate, flame retardant
Installation	Ceiling recessing, Dado trunking, installation in luminaires
Dimensions	Ceiling recessing, Dado trunking: 281 x 50 x 21 (W x H x D, in mm), with
Permissible ambient temperature ta	0 °C ... +60 °C
Weight	Approx. 0.14 kg approx. 0.08kg without strain relief

Dimension



Label/connections

