DIMLITE single

Recessed DSI/DALI control unit

Art. no. 22162194

Device for controlling up to 25 DALI or DSI compatible lamp control gear units.

Application

DIMLITE single is used for controlling 25 DALI or DSI compatible lamp control gear units. Single or dual momentary-action switches can be used to operate all actuators simultaneously in broadcast mode (no addressing). In addition, it can be used to save a lighting scene. A standard motion detector can be integrated in three different operating modes (ON+OFF, only OFF, corridor mode).

Design notes

- The DIMLITE single 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 on the output channel, cannot operate a combination of DALI and DSI.
- The output channel is set to DALI in the state of supply and can be modified to DSI via a momentary action switch combination.
- 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 single.
- The DIMLITE single has a memory for saving the dimming level, which means that the last lighting level before switching off the lighting is restored when the lighting is turned back on.
- 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.
- 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.

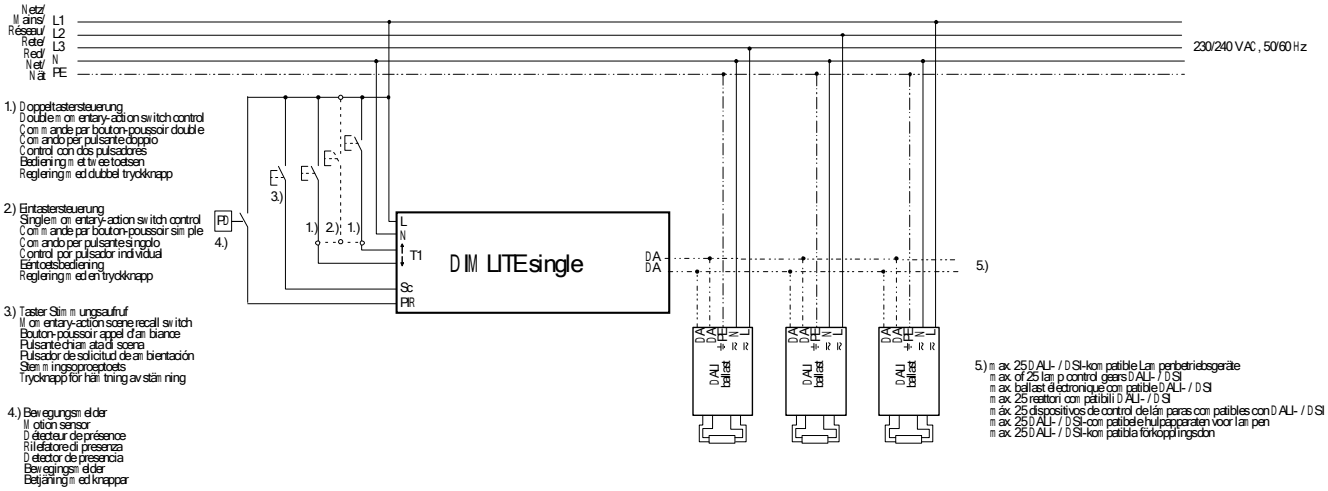
Lighting scene
In addition, there is the option of connecting a momentary-action switch to the "Sc" scene input. This can be used for ready retrieval of a preferred, stored lighting level.

Occupancy (PIR) control
The PIR (Person In Room) input can be used for occupancy control. One of three possible function profiles can be selected according to the application.

Stairwell function
As an alternative to the motion detector, the time-lag control can be used as a stairwell function.

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Wiring scheme



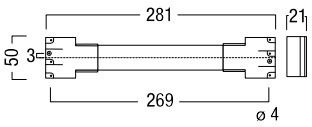
Mounting and installation instructions

- 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 can be connected in parallel with the inputs (T1 and Sc).
- Do not connect standard switches to the inputs (T1 and Sc).
- Any number of motion sensors can be connected in parallel with the PIR input.
- Momentary-action switches or motion detectors 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 simultanesouly 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	1 momentary-action switch input T1 (230/240V AC, 50/60Hz)
Outputs	ceiling cutout, ceiling cutout (luminaire group)
Capacity	in DALI or DSI mode, can each take 25 DALI-compatible or 25 DSI-compatible control gear
Terminals	0.5–1.5 mm² (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
Permitted ambient temperature	0 °C ... +60 °C
Weight	Approx. 0.14 kg approx. 0.08kg without strain relief

Dimension



Label/connections



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