

Light-sensitive Controller for DIN Rail Mounting

Functional principle

The light-sensitive controller with integrated timer is designed to dim and switch illuminated advertising signs depending on the ambient daylight level.

This helps to reduce the energy consumption and extend the lifetime of the installation.

At dusk, the controller switches the sign on when a specific minimum ambient brightness level (lux value) is reached. With increasing darkness, the brightness of the sign is reduced.

In the morning, when the ambient light level rises, the brightness of the sign is increased until the sign is finally switched off when a specific ambient brightness level is reached (optionally, the sign can be programmed to remain switched on).

Controller

The controller is designed for DIN rail mounting and features connecting terminals for the operating voltage, sensor cables and control cables. The controller settings can be changed via four push-buttons on the housing.

Light sensor

The light sensor is a small electronic component (see picture on the right), which is sensitive to natural and artificial light. The sensor is hermetically sealed in a plastic housing and provided with a 2 m four-core connecting cable.

Operational behaviour

The controller supplies an output voltage of 0-10 V to the terminals 1 to 4. This voltage can be used to dim electronic converters.

The magnitude of the voltage depends on:

- the ambient light level
- the controller settings

Independent of the light sensor, the controller can also be used as a permanent dimmer.

Installation and positioning

The controller can be installed in converter boxes, converter cabinets or electrical distribution boards.

The cable length between the controller and the light sensor must not exceed 100 m when using a shielded network cable.

Installing the light sensor

The light sensor must be installed in such a way that direct exposure to a light source is avoided and an unobstructed view towards the sky is ensured.





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0
°C to +65 °C
201 130
-230 V (+/- 10%) 50/60 Hz
<. 0.05 A
0 V DC
k. 35 mA (max. 50 converters)
«. 100 m
00 lx
g
vcarbonate
04-V0
x 90 x 58 mm
/



All values refer to an ambient temperature of +25 °C.



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Light-sensitive Controller for DIN Rail Mounting

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Connection scheme for LEDs in series connection



Connection scheme for LEDs in parallel connection



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