



DATA SHEET

LSG 3

Lighting scene control devices

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[Internetlink](#)

Function

Lighting control devices, depending on the design, allow the control of different lighting equipment. The main focus is the capability to smoothly adjust the lighting in order to create lighting scenes. The control devices have different power and available input signals in addition to the type of controllable lighting. The LSG 1, LSG 2 and LSG 3 lighting scene control devices each have five smoothly adjustable and one switchable output for controlling the lighting groups. The smoothly adjustable outputs provide the pulse width modulation signal (PWM) for connecting the remote dimmers LT 500 and LT 1200 and for the SIPU for converting to 1-10 V signals for smoothly adjustable electronic ballasts. Each smoothly adjustable output is able to control up to 10 remote dimmers of any type. The dimming output are equipped with a soft start function as standard for protecting the light; the potentiometer which can be accessed at the front also allows the dimming speed to be set for smooth adjustment up or down of devices. The switching output allows the connection of a relay (e.g. SIR 16 L) for switching high loads. All outputs are short-circuit-proof and indicate overloads using flashing codes. The four lighting scenes are configured and recalled either using the switches or the optional, user-friendly LSPG programmer. The switches, upon activating a lighting scene, also provide the feedback signal for panels or automation systems. Inadvertent changes to the lighting scenes are prevented by activating the lighting scene lock.

Features

adjustable dimming speeds: 0.4 s to 11 s (LSG 1), 1.3 s to 33 s (LSG 2) and 1 min to 25 min (LSG 3), separate inputs (24 V DC) for controlling individual dimming circuits of the semiconductor output, four combined inputs/outputs for recalling saved lighting scenes and reporting the activated lighting scene, inputs for central-ON and central-OFF commands, five PWM outputs for connecting remote dimmer consumers LT 500 or LT 1200 or connecting the SIPU, a switchable semiconductor output for connecting an SIR 16, for example, D-sub socket for connecting easy-to-use LSPG lighting scene programming device, lighting scenes can be locked via code, contains the saved lighting scenes even in the event of a power failure, power supply 24 V DC/25 mA

Mounting

quick fastening to mounting rail, any installation position

Applications

The devices in series LSG are generally used in private and commercially used buildings where scenes with multiple lighting groups are established. The LSG 2 is especially suitable for soft on and off switching of lighting in cinemas, restaurants and stage lighting systems. The LSG 3 tracks the sun's natural course (sunrise/sunset) and is therefore especially suitable for use in aquariums, terrariums, aviaries and general zoological facilities.

Accessories

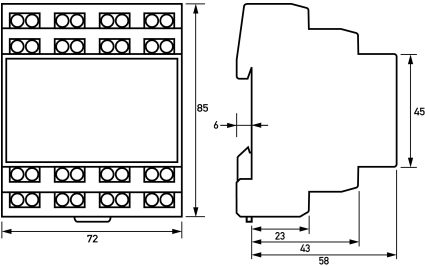
Lighting control devices LT

Technical Data

Technical Data	LSG 3
Series	LSG 3
Manual operating mode possible	true
max. Number of lighting groups	6
max. Number of lighting scenes	4
min. Dimming speed (10% -> 100% / 100% -> 10%)	1 min
max. Dimming speed (10% -> 100% / 100% -> 10%)	23 min
Operating voltage (DC)	24 V (21.5 V ... 26.5 V)
Internal consumption	max. 0.6 W

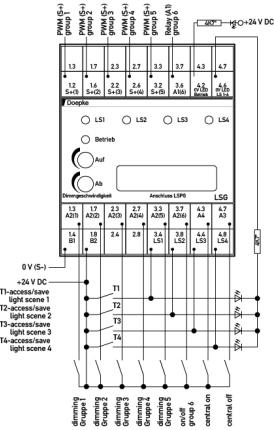
Technical Data	LSG 3
	Display Operation
Type	LED
	Display Light scenario choice
Type	LED
	Control input
Rated voltage (DC)	24 V
Tolerance of rated voltage	-10 % ... 10 %
Bounce time of push buttons	10 ms
Load factor	1 ELF
max. Input I ₁ Maximum number of push buttons	20
	PWM output
Specification	Semiconductor
Number	5
Rated voltage (DC)	24 V
Rated current (DC)	0.001 A
Load factor	10 ALF
	Semiconductor output
Specification	Semiconductor, Switching contact
Number	1
Rated current (DC)	0.05 A
	Screw-type terminal top and bottom
Clamping area	0.4 mm ² ... 2.5 mm ²
Cross section solid	1-wire: 0.4 mm ² ... 2.5 mm ²
Cross section stranded	1-wire: 0.4 mm ² ... 1.5 mm ²
Tightening torque	max. 0.6 Nm
General data description	General data
Operating position	any
Ambient temperature	-10 °C ... 45 °C
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polycarbonate (PC)
Protection class	IP20
Width	72 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	4
Design requirements/Standards	EN 60669-1, EN 61000-6-3, EN 61000-6-1

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram