

Product data sheet

LED universal dimming actuator, 4-gang



Reference number

39004 1S R

KNX LED universal dimming actuator, 4-gang

4 x 225 W, HV LED lamps typ. 4 x 1 ... 35 W (leading edge phase control),
4 x 1 ... 200 W (trailing edge phase control)
1 x 855 W

with manual electronic operation and LED status indication
Project design and commissioning with ETS5 or a more recent version.
Rail mounting device, 4 rail units
ETS product family: Illumination
Product type: Dimmer

The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure

Intended use

- Switching and dimming of incandescent lamps, HV halogen lamps, dimmable HV LED lamps, dimmable compact fluorescent lamps, dimmable inductive transformers with LV halogen or LV LED lamps, dimmable electronic transformers with LV halogen or LV LED lamps
- Mounting on DIN rail according to EN 60715 in distribution boxes

Product characteristics

- Outputs can be operated manually, construction site mode
- Feedback in manual mode and in bus mode
- Disabling of individual outputs manually or via bus
- Status feedback
- KNX Data Secure compatible with ETS 5.7.3 or higher
- Can be updated with the ETS Service App

Dimming operation characteristic

- Automatic or manual setting of the dimming principle suitable for the load
- Protected against no-load, short-circuit and overheating
- Signal in the event of a short-circuit, power failure and overload
- Feedback of the switching position and the dimming value
- Parameterisable switch-on and dimming behaviour
- Time functions: switch-on delay, switch-off delay, staircase lighting timer with pre-warning function
- Light scene operation
- Status indication of the outputs via LED
- Operating hours counter
- Mains failure longer than approx. 5 seconds leads to switch-off of the dimmer actuator. Depending on the parameter setting, the connected load is calibrated after resumption of power supply.
- Increase in output power possible through parallel switching of multiple outputs
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Logic function characteristics

- Logic gates
- Transformer (conversion)
- Disabling element
- Comparator
- Limit value switch

Technical data

Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Power loss:	max. 7 W
Stand-by power:	approx. 0.16 W per channel
Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C

Lamp loads

Operation modes "universal", "leading edge phase control", "LED leading edge phase control"

Connected load, 230 V per output

Incandescent lamps: 20 ... 225 W

HV halogen lamps: 20 ... 225 W

If the operating mode for LED and HV halogen lamps is set to "leading edge phase control" or "LED leading edge phase control", the maximum connected load falls to 20 ... 210 W.

Inductive transformers: 20 ... 210 VA

Inductive transformers with LV LED: 20 ... 100 VA

Electronic transformers: 20 ... 210 W

Electronic transformers with LV LED: 20 ... 100 W

Dimmable HV LED lamps: typical 1 ... 35 W

Dimmable compact fluorescent lamps: typical 20 ... 80 W

Mixed load types

Capacitive-inductive: not permitted

If the maximum connected load is lowered to 110 V, the lamp loads fall by 50 %.

For inductive transformers and inductive transformers with LV LED, the operation mode "leading edge phase control" is not permitted.

Operation modes "trailing edge phase control", "LED trailing edge phase control"

Connected load, 230 V per output

Incandescent lamps: 20 ... 225 W

HV halogen lamps: 20 ... 225 W

Electronic transformers: 20 ... 225 W

Electronic transformers with LV LED: 20 ... 200 W

Dimmable HV LED lamps: typical 1 ... 200 W

Dimmable compact fluorescent lamps: typical 20 ... 150 W

If the maximum connected load is lowered to 110 V, the lamp loads fall by 50 %.

Mounting width: 72 mm (4 rail units)

KNX

KNX medium: TP 256

Commissioning mode:	S-mode
Rated voltage KNX:	DC 21 ... 32 V SELV
Current consumption KNX:	15 mA
Connection	
Connection mode:	connection terminal
single wire:	1 x 0.5 ... 4 mm ²
stranded without ferrule:	1 x 0.5 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²

