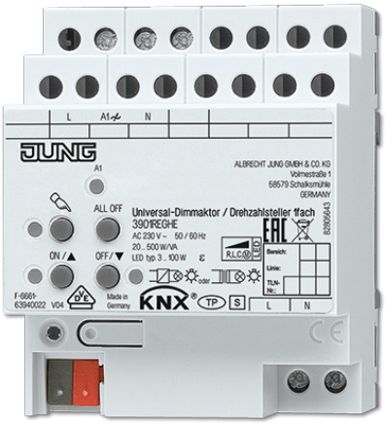
# Product data sheet

## LED universal dimming actuator / speed regulator, 1-gang




| Reference number |
|---|
| 3901 REGHE |

**KNX LED universal dimming actuator / speed regulator, 1-gang**

1 x 500 W, HV LED lamps typ. 3 ... 100 W
rail mounting device, 4 rail units
ETS product family: Illumination
Product type: Dimmer

**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
- Speed controller for regulating the speed of single-phase motors e.g. induction motors or shaded pole motors
- Mounting on DIN rail according to EN 60715 in distribution box

**Product characteristics**

- 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
- Outputs can be operated manually
- 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
- Disabling of individual outputs manually or via bus
- Status indication of the outputs via LED
- Operating hours counter
- Power 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 voltage return.
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

**Technical data**

| | |
|---|---|
| KNX medium: | TP 256 |
| Rated voltage: | AC 110 ... 230 V ~, 50/60 Hz |
| Power loss: | max. 4 W |
| Stand-by power: | max. 0.5 W |
| Ambient temperature: | –5 ... +45 °C |
| Stora/transport temperature: | –25 ... +70 °C |
| Contact type: | , MOSFET |
| Motor loads | |
| Motor switching current: | 2.3 A |
| Lamp loads | |
| Connected load, 230 V per output | |
| Incandescent lamps: | 20 ... 500 W |

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| | |
|---|---|
| HV halogen lamps: | 20 ... 500 W |
| Inductive transformers: | 20 ... 500 VA |
| Inductive transformers with LV LED: | 20 ... 100 VA |
| Electronic transformers: | 20 ... 500 W |
| Electronic transformers with LV LED: | 20 ... 100 W |
| Dimmable HV LED lamps: | typical 3 ... 100 W |
| Dimmable compact fluorescent lamps: | typical 3 ... 100 W |
| With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles. | |
| Ohmic-inductive: | 20 ... 500 VA |
| Ohmic-capacitive: | 20 ... 500 W |
| Capacitive-inductive: | not permitted |
| Connected load, 110 V per output | |
| Incandescent lamps: | 20 ... 250 W |
| HV halogen lamps: | 20 ... 250 W |
| Inductive transformers: | 20 ... 250 VA |
| Inductive transformers with LV LED: | 20 ... 50 VA |
| Electronic transformers: | 20 ... 250 W |
| Electronic transformers with LV LED: | 20 ... 50 VA |
| Dimmable HV LED lamps: | typical 3 ... 50 W |
| Dimmable compact fluorescent lamps: | typical 3 ... 50 W |
| With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles. | |
| Ohmic-inductive: | 20 ... 250 VA |
| Ohmic-capacitive: | 20 ... 250 W |
| Capacitive-inductive: | not permitted |
| Connection | |
| Connection mode: | screw terminals |
| single wire: | 1 x 0.5 ... 4 mm² |
| stranded without ferrule: | 1 x 0.5 ... 4 mm² |
| stranded with ferrule: | 1 x 0.5 ... 2.5 mm² |
| Mounting width: | 72 mm (4 rail units) |
| Approvals: | VDE |

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