

Product data sheet

eNet radio dimming actuator 1-gang mini



Reference number

FM UD 20250 UP

eNet radio dimming actuator 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

Intended use

- Switching and dimming of incandescent lamps, HV halogen lamps, electronic transformers for halogen or LED lamps, dimmable inductive transformers for halogen or LED lamps, HV LED or compact fluorescent lamps
- Operation with suitable eNet radio transmitters
- Installation in flush box according to DIN 49073 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Switch-on via bulb-preserving soft start
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Scene operation possible
- Status indication with LED
- Status feedback to radio transmitter
- Switchable with Prog button
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Automatic or manual setting of the dimming principle suitable for the load
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Can be set with eNet server:

- Maximum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Operating locks
- Continuous on, Continuous off
- Hotel function
- Run-on time

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Power loss:	max. 1.5 W
Stand-by power:	max. 0.5 W
Ambient temperature:	-25 ... +70 °C
Connected load at 45 °C	
Power specifications including transformer power dissipation.	
Operate inductive transformers with at least 85 % nominal load.	
For ohmic-inductive mixed load, maximum 50 % proportion of ohmic load. Otherwise incorrect calibration of the dimmer may result.	
Incandescent lamps:	20 ... 250 W
HV halogen lamps:	20 ... 250 W
Electronic transformers:	20 ... 250 W
Electronic transformers with LV LED:	typical 20 ... 100 W
Inductive transformers:	20 ... 250 VA
Inductive transformers with LV LED:	typical 20 ... 100 VA
Dimmable HV LED lamps:	typical 3 ... 70 W
If the operating mode is set to HV LED trailing edge phase control, the maximum connected load for LED lamps increases to typ. 200 W.	
Dimmable compact fluorescent lamps:	typical 3 ... 70 W
Ohmic-inductive:	20 ... 250 VA
Ohmic-capacitive:	20 ... 250 W
Capacitive-inductive:	not permitted
Ohmic and HV LED:	typical 3 ... 70 W
Ohmic and CFL:	typical 3 ... 70 W
Reduction of load for every 5 °C exceeded 45 °C:	-5 %
for installation into wooden or hollow walls:	-15 %
for installation into multiple combinations:	-20 %
Amplifiers:	see instructions for amplifier
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Contact type:	
Total length power cable:	max. 100 m
Dimensions (Ø x H):	53 x 28 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

