

Univeral Dimmer

DM001

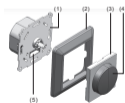


Product information

Item number **DM001**
To connect with **3-wire house electricity cord**
Phase (L), neutral (N), PE protective (PE)

Device componets

- (1) Dimmer
- (2) Frame
- (3) Central plate
- (4) Adjusting Knob
- (5) Screw Terminals



Dear Customer,
Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this instruction, we assume no liability for any resulting personal injury or damage to property. The warranty/guarantee will be validated in such cases.

Safety Instructions

- This manual is intended to familiarize you with the operation of this product. Always keep these instructions in a safe place for future reference.
- Electrical equipment may only be installed and fitted by electrically skilled persons.
- Failure to observe the instructions may cause damage to the device and result in fire and other hazards.
- Danger of electric shock. Always disconnect before carrying out work on the device or load. At the same time, take into account all circuit breakers that supply dangerous voltage to the device or load.
- Danger of electric shock. Device is not suitable for disconnection from supply voltage. The load is not electrically isolated from the main even when the device is switched off.
- Operation can no longer be guaranteed if the product
 - is visibly damaged,
 - is no longer working properly
 - has been stored for extended periods in poor ambient conditions or has been subjected to any serious transport-related stresses.

- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use.
- Protect the product from extreme temperatures, direct sunlight, strong vibration, high humidity, moisture, combustible gases, vapors and solvents.
 - Keep this device out of the reach of children and pets.
 - **The warranty will be forfeited in the case of external interventions.**
 - **Cleaning the outer surface:**
Use a dry cloth. Do not use liquids such as cleaning sprays.
The surface can be damaged by excessive pressure during wiping. Rubber or Plastic parts should not be in contact with the device for an extended period of time.
 - In commercial facilities, the accident prevention regulations of the Association of Professional Cooperatives for Electrical Installations and Operating Equipment must be observed!

Environment Concerns

According to the European waste regulation 2012/19/EU this symbol on the product or its packaging indicates that this product should not be treated as household waste. Instead, it should be taken to an appropriate collection point for the recycling of electrical and electronic equipment. By ensuring proper disposal of this product, you can help prevent potential negative consequences for the environment and human health that may arise from improper waste handling. Please contact your local council or household waste disposal service for further information.

Function

Intended use

- Switching and dimming incandescent lamps, HV halogen lamps and Tronic transformers with halogen lamps
- Suitable for mixed operation up to the specified output (see section Technical data)
- Installation in appliance box to DIN 49073
- ⊠ Not suitable for use with inductive transformers.

Product characteristics

- Dimming principle, phase cut-off
- Soft locking on actuation
- Electronic over-temperature protection
- Changeover switching possible in combination with changeover switch
- Power extension through power boosters (see power booster instructions)
- ⊠ Flickering of the connected lamps due to undershoot of the specified minimum load or through centralised pulses from the power stations. This does not represent any defect in the device.

„This dimmer shall be protected by a 10A maximum miniature circuit breaker, specifically designed for use with this dimmer“

Switch light:

- Press the control button

Adjust the brightness

- Light is switched on.
- Turn the control button in the clockwise direction. The light gets brighter up to maximum brightness.
- Turn the control button in the anti-clockwise direction. Light gets darker to minimum brightness.
- Turn the MIN-knob in the anti-clockwise direction to obtain expected brightness.

Fitting and electrical connection

Attention! Important hint!

Installation only by persons with relevant electrotechnical knowledge and experience!

It is illegal for persons other than an appropriately licensed electrical contractors or other persons authorised by legislation to work on the fixed wiring of any electrical installation.



DANGER!
Risk of electrical shock when in contact with live parts. Electrical shocks can be fatal. Before performing any work on the device or load, disconnect all corresponding circuit breakers. Ensure to cover live parts in the working environment.

Connecting and counting the dimmer

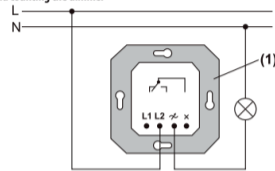


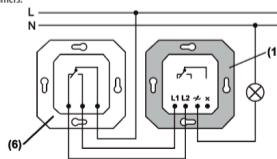
Figure 2: Connection diagram

Connect the dimmer

- (1) according to the connection diagram (figure 2).
- Mount the dimmer in the accessory socket.
- Mount the frame and the central plate.
- Attach the adjusting knob.

Connection in chargeover switch

- ⊠ No changeover switch possible with two dimmers.



Connect the dimmer

- (1) and the changeover switch
- (6) according to the connection diagram (figure 3).

Technical data

Main voltage/Frequence: 220,0 - 240,0 V AC, 50/60Hz
 Ambient Temperature: +5 to +25 °C
 Power specifications including transformer power dissipation: 3,0 - 400,0 VA
 Dimmable LEDs: 3,0 - 250,0 W
 Tronic transformers: 3,0 - 400,0 VA
 Power reduction / per 5°C in excess of 25°C: -10%
 Walls / When installed in multiple combinations: -20%
 Connected load at 25 °C
 HV halogen / Incandescent lamps: 3,0 - 400,0 W
 ojmik - capacitive: 3,0 - 400,0 VA
 Connection / Single stranded: Max. 2,5mm

The symbols used to label the dimmer load shows the load type that can be connected to a dimmer and the electric behaviour of a load: R = ohmic, C = capacitive

Troubelshooting

The dimmer switched the load off and only on again after some time.

- Overheating protection has tripped;
- Reduce the connected load;
- Check the installation situation.

The dimmer switched the load off briefly and then on again.

Short-circuit protection has tripped but now there is no longer a fault.

The dimmer switched the load off and cannot be switched on again.

- Short-circuit protection has tripped.
- Eliminated short-circuit.
- Switch the dimmer back on by pressing the control knob twice.

⊠ Short-circuit protection is not based on a conventional fuse, no metallic separation of the operational current.

