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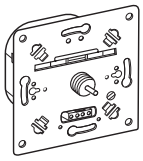
merten™

# Rotary dimmer insert for inductive load

Operating instructions



MEG5135-0000

## For your safety

**⚠⚠ DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Safety standards, local wiring rules and regulations

**Failure to follow these instructions will result in death or serious injury.**

**⚠⚠ DANGER**

**HAZARD OF ELECTRIC SHOCK**

The outputs may carry an electrical current even when the device is switched off.

- Before working on the loads, always disconnect the device from the supply via the upstream miniature circuit breaker.

**Failure to follow these instructions will result in death or serious injury.**

*Notice*

**HAZARD OF EQUIPMENT DAMAGE**

- Always protect the circuit of this device with a 10 A miniature circuit breaker
- Only connect dimmable loads.
- Sockets must not be dimmed.
- Ensure that the device is disconnected from its circuit during the insulation resistance test.

**Failure to follow these instructions can damage the device.**

## Rotary dimmer insert – introduction

With the rotary dimmer insert (hereafter referred to as "dimmer"), you can use a rotary knob to switch and control inductive, ohmic and motor loads such as

- Low-voltage halogen lamps with dimmable, inductive transformers
- Incandescent lamps and 230 V halogen lamps and
- Single-phase electric motors.

The dimmer has an additional switch output which enables an additional load to be switched on and off.

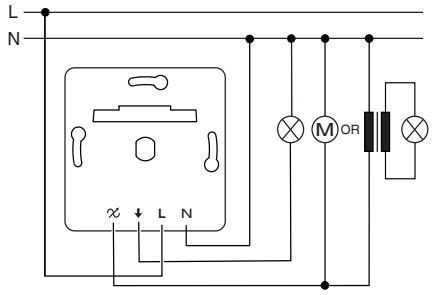
## Installing the dimmer

The maximum allowed load is reduced due to the decreased heat dissipation when you do not install the device into a single standard flushmounted mounting box:

| Load reduction by | Mounted in cavity walls * | Several installed together in combination * | In 1-gang or 2-gang surface- mounted housing | in 3-gang surface-mounted housing |
|---|---|---|---|---|
| 25 % | x | x | | |
| 30 % | | | x | |
| 50 % | | | | x |

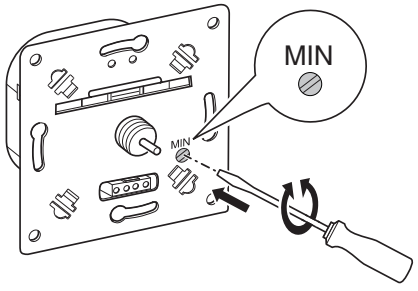
* If several factors apply, add the load reductions together.

***Wiring the dimmer for the desired application.***



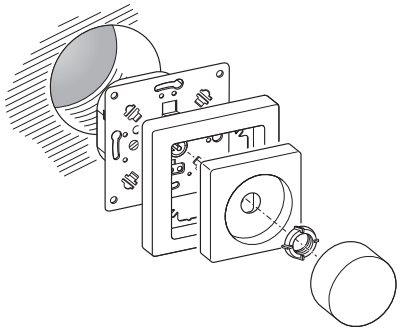

***Setting the minimum brightness of the lamps.***

The connected lamps should illuminate a minimum brightness when the dimmer is switched on and when the rotary switch has been dimmed down.
Set the minimum brightness before installing the covers.

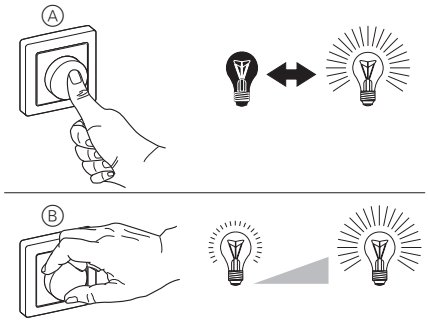



① Set the dimmer.
② Dim the brightness right down using the rotary knob.
③ Set the minimum brightness using the set-screw (MIN).

***Installing the dimmer and covers.***



## Operating the dimmer




- You switch the connected lamps on and off by simply pressing the rotary knob Ⓐ.
- By turning the rotary knob Ⓑ, you dim the lamps brighter or darker.

## What should I do if there is a problem?

**The dimmer dims down by itself**.

- Allow the dimmer to cool down and reduce the connected load.

**The connected lamp doesn't switch on**.

- If there is an extreme overload due to the fact that the operating temperature is too high, it will not be possible to switch the dimmer back on and it must be replaced.

## Technical data

| | |
|---|---|
| Mains voltage: | AC 230 V, 50 Hz |
| Nominal ohmic load: | 40 - 1000 W |
| Minimum ohmic load: | 40 W |
| Nominal inductive load: | 60 - 1000 VA |
| Minimum inductive load: | 60 VA |
| Nominal motor load: | 60 - 600 W |
| Minimum motor load: | 60 W |
| Load type: | Ohmic, inductive and motor load |
| Load on the switch output: | max. 2 A, cosφ 0.6 |

Dispose of the device separately from household waste at an official collection point. Professional recycling protects people and the environment against potential negative effects.

## Merten GmbH

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