

## Standard mains decoupler

Order no.: 187 00

## Comfort mains decoupler

Order no.: 187 99 01

## Operating instructions

### 1 Safety Instruction

**Important!** Installation and mounting of electrical devices may only be carried out by a qualified electrician. When doing so, the applicable accident prevention regulations must be observed.

To avoid an electric shock, isolate the device before working on it (switch off circuit breaker).

Failure to observe the installation instructions can cause result in to the device, fire or other dangers.

Connect a 16 A circuit breaker upstream. The device is not isolated!

In the case of mains decoupling, a 230 V DC monitoring voltage is present in the installation circuit.

Please give these operating instructions to your customer following installation.

### 2 Structure of the device

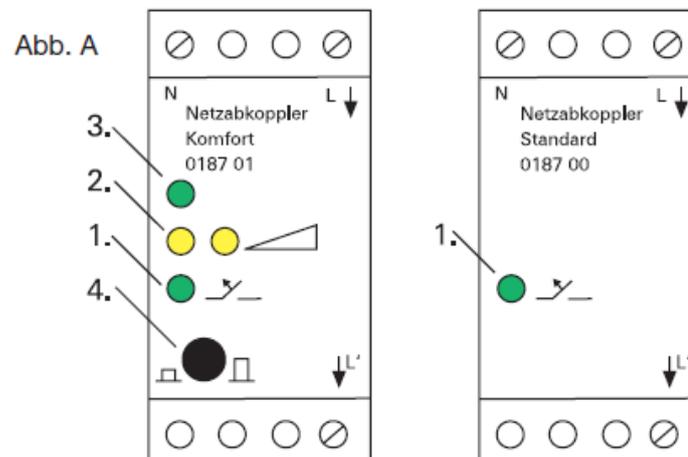


Fig. A: Display and operating elements

1. LED green: mains voltage decoupled only with Comfort mains decoupler
2. 2 yellow LEDs as consumption display. If both LEDs light up, even larger devices (> 50 W) are switched on. First the right, then the left LED goes out.
3. LED green: ready for operation
4. Push button for switching mains decoupler „on/off (□ / □)“. In the „On (□)“ position the mains decoupler automatically disconnects the power circuit concerned from the mains supply when no device is switched on. In the „Off (□)“ position the power circuit is not decoupled.

### 3 Function

The mains decoupler is installed in a load circuit and decouples it from the alternating current as soon as all devices of this load circuit are switched off. This prevents alternating electromagnetic fields in sensitive living areas and the related radiation caused by the building wiring system.

During mains decoupling a 230 V DC monitoring voltage is connected to the load circuit. The device is not isolated!

In the decoupled state, VDE-approved phase checkers indicate the monitoring voltage. As soon as a device is switched on, the mains decoupler reconnects the monitored phase.

A large number of common devices, such as light bulbs, Berker Tronic transformers, compact fluor-escent lamps or vacuum cleaners, are detected without additional base load modules. The switching concept of the mains decoupler eliminates the need for a manual calibration of the switch-on and switch-off threshold.

- ❶ If the load circuit contains continuous power consumers (e.g. a radio alarm clock, telephone, alarm system etc.), the circuit is not decoupled.
- ❶ The monitoring voltage present during mains decoupling supplies, e.g. illuminated push buttons, up to a maximum of 8 mA. During mains decoupling the function of electronic blind controllers or radio bus systems in the load circuit is limited.

### 4 Information for electricians

#### 4.1 5.1 Installation and connection



#### **DANGER!**

**Touching live parts can result in an electric shock.**

**An electric shock can lead to death.**

**Disconnect before working on the device. Cover all live parts in the area!**

If several mains decouplers are installed in a subdistribution unit, fit these on different rails or at a distance of one half of a depth module from the adjacent mains decoupler. This enables temperature compensation to take place (observe operating temperature range!)

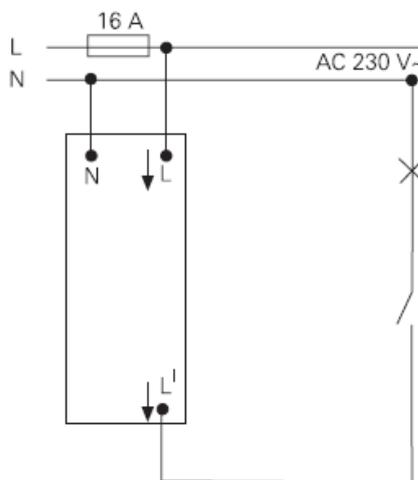
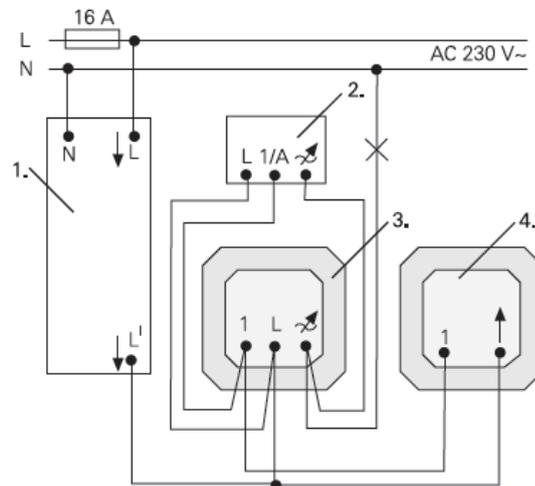
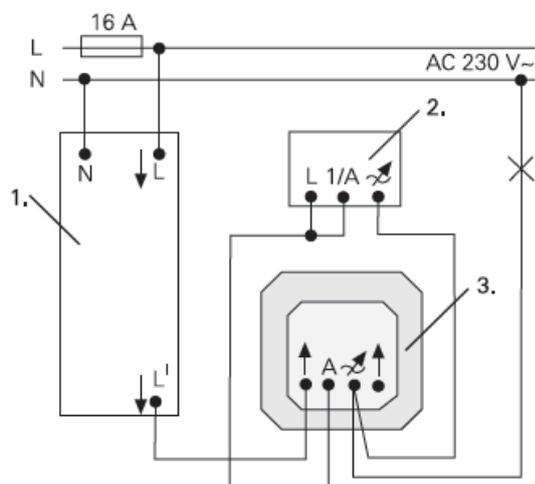


Fig. B

- Engage the mains decoupler on the DRA top-hat rail and connect it as shown in **Fig. B**.
- ① Check operation before connecting the output phase **L'**: The mains decoupler must decouple after approx. 3 seconds when mains voltage is connected. With the Comfort mains decoupler, make sure that the push button (**Fig. A (4)**) is switched on and the operating LED (**Fig. A (3)**) is lit up.



**Fig. C:** Connection of mains decoupler (1) with a Universal Touch Dimmer 2902 (3) with a BLC Extension insert 2907 (4) and control module 18811 (2)



**Fig. D:** Connection of mains decoupler (1) with a Tronic Rotary Dimmer 2874 (3) and control module 18811 (2)

## 5 Appendix

### 5.1 Specification

Rated voltage:	230 V AC, 50 Hz
Monitoring voltage:	230 V DC, max. 8 mA
Contact rating	
Light bulbs:	2,300 W
HV halogen lamps:	2,300 W
LV halogen lamps	
conv. transformer:	800 VA
Berker Tronic transform.:	1,000 W
Fluorescent lamps	
uncompensated:	1,000 VA
Duo-circuit:	1,600 VA
parallel compensated:	700 VA
Temperature range:	0 °C to +40 °C
Installation width:	36 mm (2 depth modules)

### 5.2 Accessories

The mains decoupler functions exclusively with the following Berker rotary and touch dimmers:

Dimmer Order No:	Control Module		Remarks
	w/o	with	
2875	x		-
2902	x		Main unit operation
		x	AU*, see Fig. C
2873	x		-
2874		x	see Fig. D
2861	x		Main unit operation

\* AU = Auxiliary unit operation

### 5.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

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