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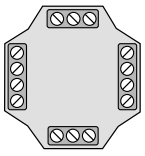
merten™

Multiple control relay for roller shutters, flush-mounted

Operating instructions



Art. no. 576398

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.

Notice

HAZARD OF EQUIPMENT DAMAGE

- Ensure that the device is disconnected from its circuit during the insulation resistance test.

Failure to follow these instructions can damage the device.

Multiple control relay introduction

Up to two roller shutter motors can be operated using the multiple control relay for roller shutters, flush-mounted (called the **Multiple control relay** in the following).

You can combine roller shutter motors to form group installations. These can be single groups or centrally controlled subgroups. It offers:

– Maximum performance reliability
– Particularly compact design, only 22 mm in height
– Complete separation of load and control circuits
– Forced locking in both directions of movement, to protect your motors and control units

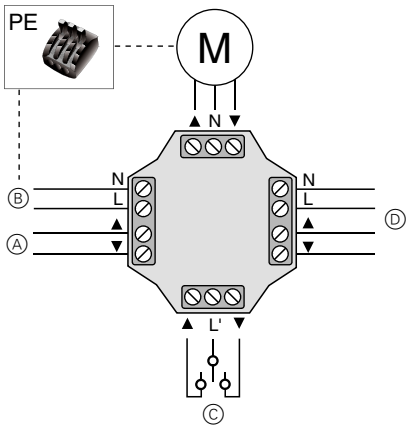
The central command operates in priority. For local operation your only use a blind push-button, not a blind switch. A blind push-button, a blind switch or a roller shutter time switch can be used as a central unit.

Multiple control relay installation

The flush-mounted multiple control relay is mounted in the switch box or junction box. Please use a damp-proof box for the installation in the roller shutter box.

Due to its particularly flat design the multiple control relay will fit in a normal flush-mounted socket. It is advisable to install the device in a deep flush-mounted socket.

Connections



Ⓐ Input central command control voltage 230 V, priority
Ⓑ Mains supply: phase (L), neutral conductor (N)
Ⓒ Individual operation, blind push-button
Ⓓ To other multiple control relays or motors or remains unassigned.
L' Switched phase
Ⓜ Motor
▲ Motor direction Up
▼ Motor direction Down
PE Protective conductor. Each device is supplied with a terminal which is suitable for rigid and flexible conductors.

Configuration examples

Notice

The motors can become damaged

- If you use blind switches for individual operation, damage might be caused to the motor. For individual operation of motors use only blind push-buttns.
- Conventional roller shutter motors may not be connected in parallel and operated on a conventional roller shutter push-button as otherwise the effects of electrical feedback could destroy the motor

Failure to follow these instructions can damage the device.

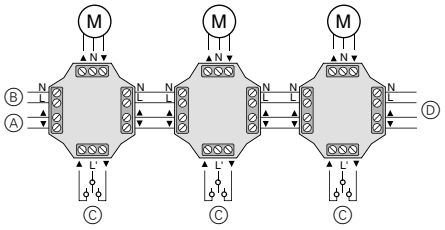
When laying out the entire installation, the total phase load must be taken into account.

The protective earth terminals (PE) are not shown in the following examples. The protective conductors must be connected as shown in the connection diagram. Each device is supplied with a terminal which is suitable for rigid and flexible conductors.

Example 1

1-motor operation.

Three drives should be controlled in combination as superordinate components via a push-button or a blind time switch. The motors can be operated individually via blind push-buttons.



Ⓐ Input central command control voltage 230 V, priority
Ⓑ Mains supply: phase (L), neutral conductor (N)
Ⓒ Push-button, individual operation
Ⓓ To further devices

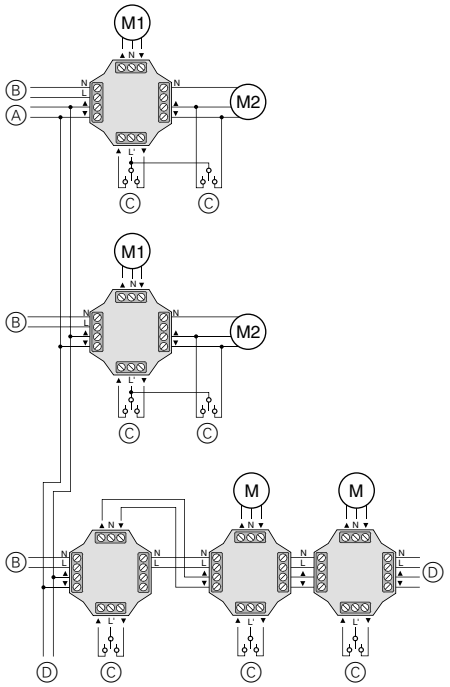
Example 2

2-motor operation and group control.

Two motors are connected to two multiple control relays.

An additional multiple control relay is required for a subgroup structure. This acts as a control device for subgroup operation. In this example, one motor per multiple control relay is controlled in the subgroup (1-motor operation).

The motors can be operated individually via blind push-buttons.



Ⓐ Input central command control voltage 230 V, priority
Ⓑ Mains supply: phase (L), neutral conductor (N)
Ⓒ Push-button, individual operation
Ⓓ To further devices

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Technical data

Supply voltage:	AC 230 V, 50 Hz ± 10%
Control voltage:	AC 230 V, 50 Hz ± 10%
Current consumption:	10 mA in relay mode
Switching capacity:	6 A, AC 250 V, motor load max. 750 VA, only for 230 V motors with end position switch
Temperature range:	0 °C to 60 °C
Screw terminals:	solid 2x1.5 mm^2 , 1x2.5 mm^2; flexible 1.5 mm^2
Dimensions:	22x49x52 mm (HxWxD)
Installation:	(Deep) flush-mounted socket

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

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