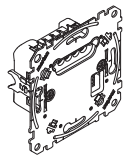


## Blind control insert

User Guide



Art. no. MEG5165-0000, MTN5165-0000

### Necessary accessories

- To be completed with:
- corresponding modules (see function overview).

### Accessories

- PlusLink Expander (Art. no. MEG5130-0000)
- PlusLink distributor (3 cycles) (Art. no. MEG5130-0001)

### 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 PlusLink carries an electrical current and the outputs may carry an electrical current even when the device is switched off.

- Before working on the device or the loads, always disconnect the device from the supply via the upstream fuse.

If one or more PlusLink lines are separately fused in your installation then they are not electrically isolated from one another.

- In this case, you should use the PlusLink Expander.

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

#### Notice

#### HAZARD OF EQUIPMENT DAMAGE

- Connect all connected devices of one or several PlusLink lines to the same phase or use a PlusLink terminal for cross-phase installation
- Ensure that the device is disconnected from its circuit during the insulation resistance test.

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

### Getting to know blind control inserts

You can use the blind control insert (referred to below as **insert**) to control **one** blind or roller shutter motor that is equipped with an end position switch.

The insert has two relay contacts electrically locked against each other that reliably prevent simultaneous controlling of the two relay outputs. This makes sure that the connected motor is not damaged.

The insert also comes with two **PlusLink** inputs, with which you can control the insert from another location. The insert, completed with a module (see the function overview), is the receiving device and is controlled via **PlusLink (PL)** by the transmitting device.

Transmitting devices are, for instance:

- Central unit inserts (completed with relevant modules)
- Side controller Plus, 1-gang/2-gang
- mechanical double push-button
- External sensors

To be able to use the PlusLink, you require a separate core in your installation.

#### Notice

#### HAZARD OF EQUIPMENT DAMAGE

- The device is designed for controlling blind or roller shutter motors. Do not switch other loads.
- Only use blind or roller shutter motors with an end position switch (mechanical or electronic).

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



The total length of cable sections in a PL line is not allowed to exceed 100 m (when a 3-core cable is used).



"Blind/roller shutter" will be referred to below as just "blind".

### Function overview of the insert completed with corresponding modules

Module:	Function:
Push-button module Basic, 1-gang	• raising/lowering
Push-button module Basic, 2-gang	• raising/lowering • Retrieving and saving Basic blind scenes (fully up/down, not just any position)
Push-button module Comfort, 1-gang	• raising/lowering • sun protection function
Push-button module Comfort, 2-gang	• raising/lowering • retrieving and saving Comfort blind scenes • sun protection function
Push-button module Comfort Plus with IR, 1-gang	• raising/lowering • sun protection function • 24-hour time switch • Week time switch • Random function • IR function
Push-button module Comfort Plus, 2-gang	• raising/lowering • retrieving and saving Comfort blind scenes • sun protection function • 24-hour time switch • Week time switch • Random function
Connected push-button module, 1-gang	• raising/lowering • sun protection function • disabling blind movement (with magnetic contact) additional app functions <sup>1</sup>

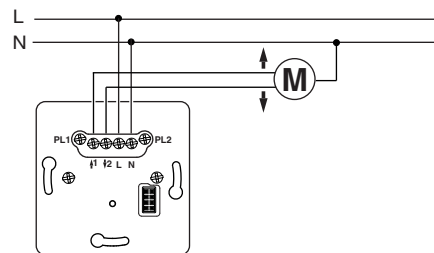
Connected push-button module, 2-gang	<ul style="list-style-type: none"> <li>• raising/lowering</li> <li>• sun protection function</li> <li>• disabling blind movement (with magnetic contact) additional app functions<sup>1</sup></li> </ul>
Rotary module	<ul style="list-style-type: none"> <li>• raising/lowering</li> <li>• retrieving and saving Basic blind scenes</li> </ul>
Standard display timer module	<ul style="list-style-type: none"> <li>• raising/lowering manually</li> <li>• time-controlled raising/lowering</li> <li>• disabling blind movement (with magnetic contact)</li> </ul>
Display timer module	<ul style="list-style-type: none"> <li>• raising/lowering manually</li> <li>• time-controlled raising/lowering</li> <li>• Sun protection function</li> <li>• disabling blind movement (with magnetic contact)</li> </ul>

<sup>1</sup> For more information about the app and the app functions, please read the instructions for the corresponding module.

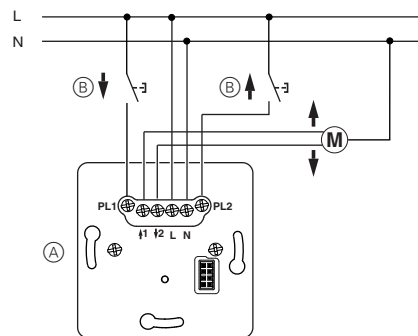
### Installing the insert

#### Wiring the insert for the desired application

##### Insert as stand-alone device

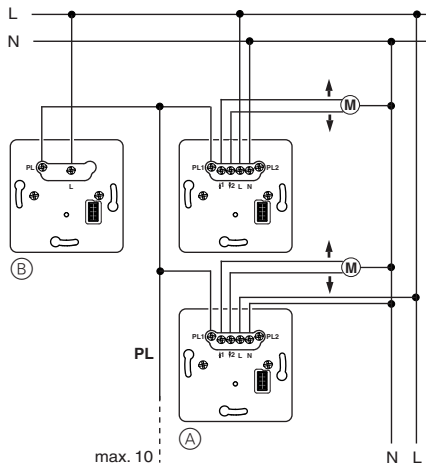


##### Insert with mechanical push-button via PlusLink



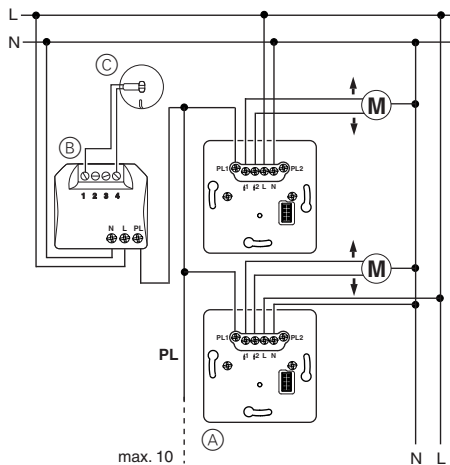
- (A) Blind control insert
- (B) Mechanical double push-button

**Insert in combination with sending device via PlusLink**  
(here shown with side controller Plus)



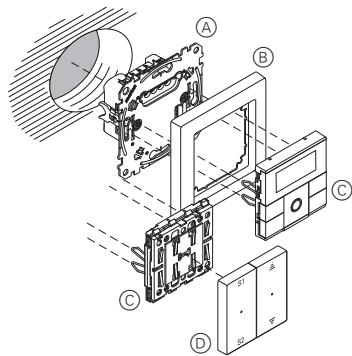
- (A) Blind control insert
- (B) Side controller Plus 1-gang / 2-gang (sending device)

**Insert in combination with external sensor via PlusLink**  
(here shown with brightness sensor interface flush-mounted with sun/twilight sensor)



- (A) Blind control insert
- (B) Brightness sensor interface flush-mounted
- (C) Sun/twilight sensor

**Installing the device**



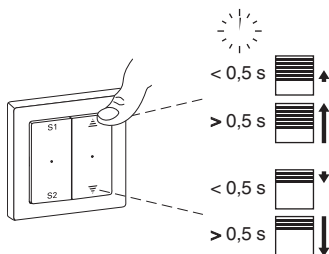
- (A) Blind control insert
- (B) Frame
- (C) Module (see function overview)
- (D) Rockers for module

**Operating the insert**

- i** The insert is shown here in operation in combination with a push-button module. More details on how to operate the various modules can be found in the relevant operating instructions.
- i** The minimum changeover time for changing between raising and lowering the blinds/roller shutters is 1 s.

**Controlling blinds**

- raising/lowering (> 0.5 s)
- up/down in steps (< 0.5 s)



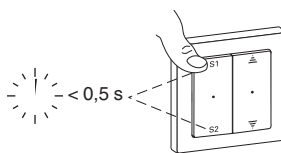
**Retrieving blind scenes**

(only for push-button module, 2-gang)

**Standard scenes**

All devices are delivered from the factory with presettings for a blind scene.

- S1: Blind up
- S2: Blind down

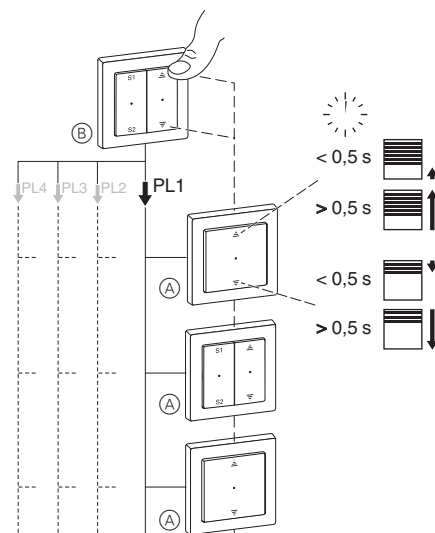


**Controlling blinds from another location with sending devices via PlusLink. For example:**

- Central unit insert with module
- Side controller Plus. 1-gang/2-gang
- Mechanical double push-button
- External sensor

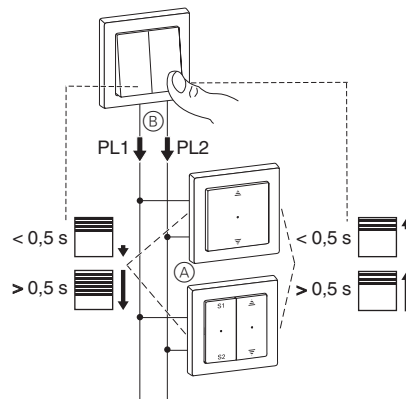
**Example operation 1:**

- When the push-button module on the central unit insert is pressed, all loads in the PL line are controlled together.
- Long press on the push-button (< 0.5 s): raising/lowering
- Short press on the push-button (> 0.5 s): up/down in steps



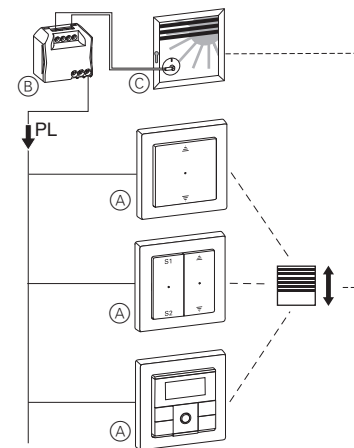
- (A) Blind control insert in PL line 1
- (B) Central unit insert with module

**Example operation 2:**



- (A) Blind control insert
- (B) Mechanical double push-button

**Example operation 3:**



- (A) Blind control insert
- (B) Brightness sensor interface flush-mounted
- (C) Sun/twilight sensor


**Technical data**

Nominal voltage:	AC 220/230 V ~, 50/60 Hz
Motor load:	max. 1 motor, 1000 VA
Neutral conductor:	required
Outputs:	2 make contacts (locked against each other)
Connecting terminals:	Screw terminals for max. 2x 2.5 mm <sup>2</sup>

**Protection**

Only use the following circuit breakers:

Schneider Electric	6 A	23612
ABB	6 A	S201-B6
ABL Sursum	6 A	B6S1
Hager	6 A	MBN106
Legrand	6 A	03266
Siemens	6 A	5SL61066

 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**

Fritz-Kotz-Str. 8  
51674 Wiehl - Germany  
se.com/contact

