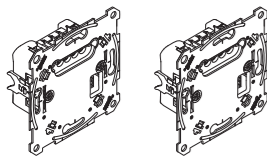**Schneider** Electric

Relay switch insert

User Guide

merten

Relay switch insert
Art. no. MEG5161-0000

Relay switch insert, 2-gang
Art. no. MEG5162-0000

Necessary accessories

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

Accessories

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

Getting to know the relay switch insert

You can use the relay switch insert (referred to below as the **insert**) to switch ohmic, inductive or capacitive loads per channel.

The insert also comes with one (1-gang insert) or two (2-gang insert) **PlusLink** inserts, with which you can control the channels 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 push-buttons
- External sensors

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

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

⚠️ **CAUTION**
The insert can become damaged.
- Always operate the insert in compliance with the specified technical data.
- Operate the insert only on a sinusoidal mains voltage. It can be damaged if it is used with dimmers or capacitors.

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**
Risk of death from electric shock.
The PlusLink carries an electrical current even when the device is switched off. Before working on the device, always disconnect it from the supply by means of the fuse in the incoming circuit. 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.

⚠️ **CAUTION**
The device can become damaged.
The voltage difference between different phases can damage the device.
Connect all connected devices of one or several PlusLink lines to the same phase or use a PlusLink terminal for cross-phase installation.

Function overview of the 1-gang insert completed with corresponding modules

Module:	Function:
Push-button module Basic, 1-gang	• switching on/off
Push-button module Basic, 2-gang	• switching on/off • Calling up and saving lightscenes
Push-button module Comfort, 1-gang	• switching on/off • Staircase lighting function
Push-button module Comfort, 2-gang	• switching on/off • Calling up and saving lightscenes • Staircase lighting function
Connected push-button module, 1-gang	• switching on/off • Additional app functions[1]
Connected push-button module, 2-gang	• switching on/off • Calling up and saving lightscenes • Additional app functions[1]
ARGUS 180 flush-mounted sensor module	• Brightness dependent staircase lighting function
ARGUS 180 flush-mounted sensor module with switch	• Brightness dependent staircase lighting function • Permanently switching staircase lighting on/off
Display timer module	• Switching on/off manually • Time-controlled switching on/off • Evaluating DCF timer

[1] For more information about the app and the app functions, please read the instructions for the corresponding module.

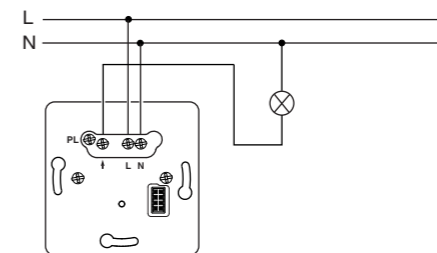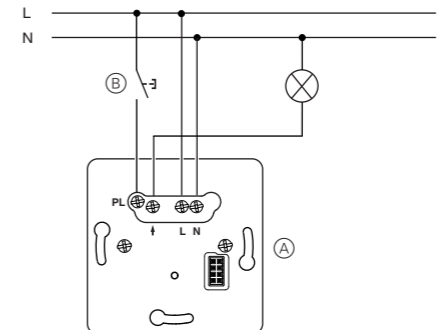## Function overview of the 2-gang insert complete with corresponding modules

Module:	Function:
Push-button module Basic, 1-gang	• Switching both channels on/off together
Push-button module Basic, 2-gang	• Switching both channels on/off separately • Calling up and saving lightscenes
Push-button module Comfort, 1-gang	• Switching both channels on/off together • Staircase lighting function
Push-button module Comfort, 2-gang	• Switching both channels on/off separately • Timer (e.g. staircase lighting)
Connected push-button module, 1-gang	• Switching both channels on/off together • Additional app functions[1]
Connected push-button module, 2-gang	• Switching both channels on/off separately • Additional app functions[1]
ARGUS 180 flush-mounted sensor module	• Brightness dependent staircase lighting function • Brightness **in**dependent staircase lighting function
ARGUS 180 flush-mounted sensor module with switch	• Brightness dependent staircase lighting function • Brightness **in**dependent staircase lighting function • Permanently switching staircase lighting on/off
Display timer module	• Manually switching on/off both channels at the same time • Time-controlled switching on/off of both channels separately or together • Evaluating DCF timer

[1] For more information about the app and the app functions, please read the instructions for the corresponding module.

Installing the insert

Wiring the insert (1-gang) for the application required
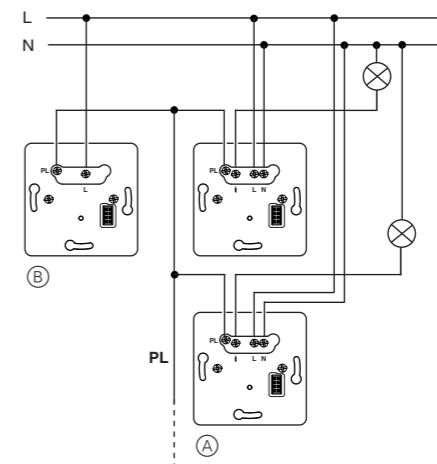
Insert as stand-alone device

Insert with mechanical push-button via PlusLink

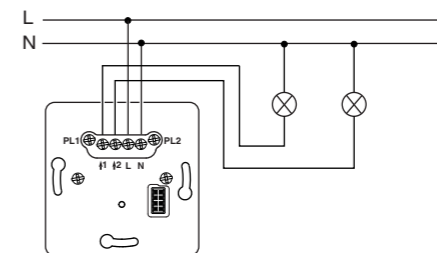Ⓐ Relay switch insert
Ⓑ Mechanical push-button (toggle mode)

Use in combination with transmitting device via PlusLink
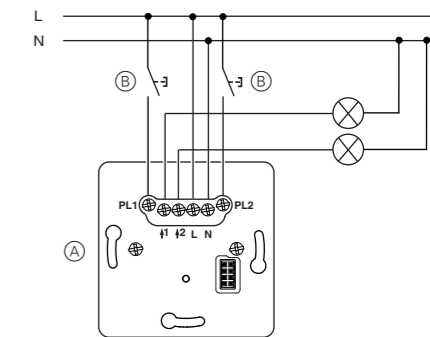*(here shown with side controller Plus)*

Ⓐ Relay switch insert
Ⓑ Side controller Plus, 1-gang/2-gang (transmitting device)

Wiring the insert (2-gang) for the application required
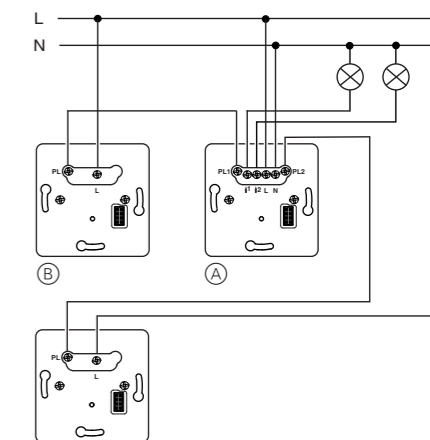
Insert as stand-alone device

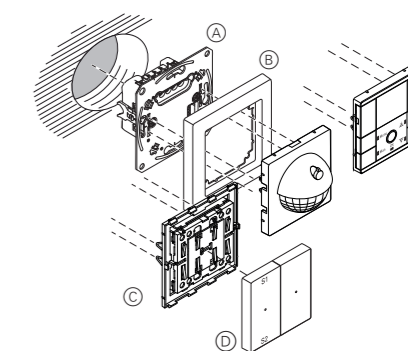## Insert with mechanical push-buttons via PlusLink

Ⓐ Relay switch insert, 2-gang
Ⓑ Mechanical push-buttons (toggle mode)

Use in combination with transmitting device via PlusLink
(here shown with side controller Plus)

Ⓐ Relay switch insert, 2-gang
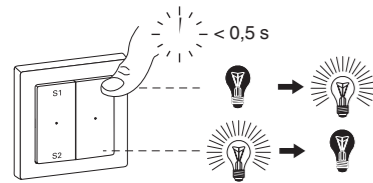Ⓑ Side controller Plus, 1-gang/2-gang (transmitting device)

Installing the device

Ⓐ Relay switch insert, 1-gang/2-gang
Ⓑ Frame
Ⓒ Module (see function overview)
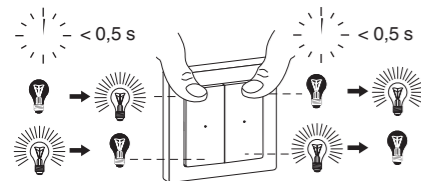Ⓓ Rockers for module

Operating the insert

ℹ️ 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.

Switching loads on/off (1-gang insert)

Switching loads on/off (2-gang insert)

- Right push-button: Channel 1
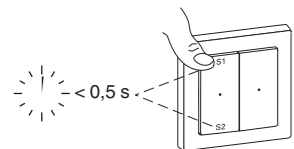- Left push-button: Channel 2

Calling up lightscenes (1-gang insert)

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

Standard scenes

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

| S1: | Light on |
| S2: | Light off |

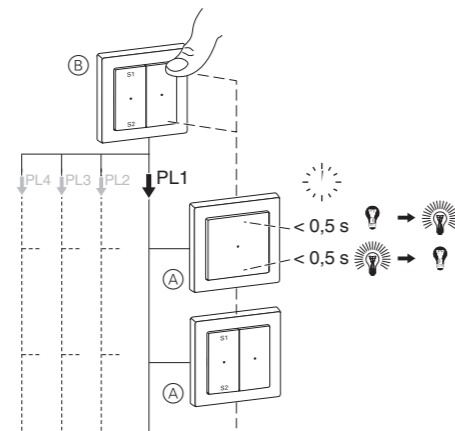## Controlling loads from another location with transmitting devices via PlusLink. For example:

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

Example operation 1:

When the push-button module on the central unit insert is pressed, all loads in the PL lines are controlled together:
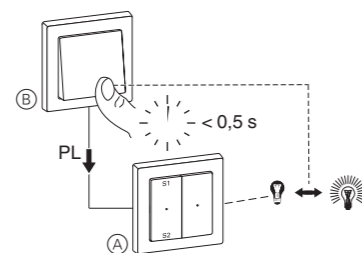
- Short push-button action (< 0.5 s): switch on/off

Ⓐ Relay switch insert in PL line 1
Ⓑ Central unit insert with module

Example operation 2:

ℹ️ When a mechanical push-button is used, we recommend connecting only one insert. With two or more inserts, simultaneous switching of the loads is no longer guaranteed.

Ⓐ Relay switch insert
Ⓑ Mechanical push-button

Technical data

| Nominal voltage: | AC 220/230 V ~, 50/60 Hz |
| Nominal current: | 10 AX, cosφ = 0.6 |

Switching capacity per channel

Incandescent lamps:	2200 W
HV halogen lamps:	2000 W
LV halogen lamps with wound transformer:	500 VA
Electronic transformers:	1050 W
Capacitive load:	10 A, 140 µF
Energy-saving lamps:	100 VA
Motor load:	1000 VA

MEG5162-0000: If channel 1 is loaded with 10 A, then channel 2 may only be loaded with 4 A. The total load on both channels may not exceed 14 A.

| Neutral conductor: | required |

Outputs:

MEG5161-0000	1 make contacts
MEG5162-0000	2 make contacts
Connecting terminals:	Screw terminals for max. 2x 2.5 mm^2 or 2x 1.5 mm^2

Protection

Only use the following circuit breakers:

	MEG5161-0000		MEG5162-0000	
Schneider Electric	10 A	23614	16 A	23617
ABB	10 A	S201-B10	16 A	S201-B16
ABL Sursum	10 A	B10S1	16 A	B16S1
Hager	10 A	MBN110	16 A	MBN116
Legrand	10 A	03268	16 A	03270
Siemens	10 A	5SL61106	16 A	5SL61166

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

Schneider Electric SE

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