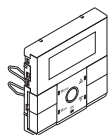


Display timer module Standard

User Guide



Art. no. MEG5754-03../-04..

merten

Necessary accessories

- Complete the display timer module standard with:
 - Corresponding inserts (see function overview)
 - Frame in design System M

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.

Table of Content

Getting to know the display timer module standard	1
Connections, displays and operating elements	1
Mounting the module	2
Getting to know the basic functions	2
Getting to know the menu	2
Setting module: Basic menu settings	3
Setting module: Advanced menu	4
Notes on advanced functions	5
Operating the module	5
Blind control	5
Light control	6
Global blind and light scenes	6
Controlling loads from another location via PlusLink	6
What should I do if there is a problem?	6
Technical data	6

Getting to know the display timer module standard

In combination with different inserts, you can carry out various functions with the display timer module standard (referred to below as **module**), such as:

- switching, dimming and controlling blinds manually
- time-controlled switching and controlling of blinds

Product features:

- simple operation using five push-buttons
- adjustable date and time
- Number of switching cycles (switching on/off, raising/lowering):
 - **Switching, dimming, blind inserts:**
per channel: 2 switching cycles/day
 - **Central unit insert:**
per PL line: 2 switching cycles/day
- Weekdays summarised in two fixed groups (Monday-Friday, Saturday+Sunday)
- Switching times preset at the factory, but can be changed later for each weekday group
- Switching to manual mode possible
- Global control (max. 4 PL lines) and separate line control
- Saving scenes is possible
- Two global scenes can be retrieved via push-buttons
- Automatic summer/winter time switchover
- Individually adjustable blind movement time
- Adjustable display brightness
- Automatic deactivation of display lighting can be selected
- Power reserve of at least 6 hours in the event of a power failure
- Reset (restore default settings)

Overview of module functions on receiving inserts

Complete the module with the receiving inserts for switching, dimming or controlling blind/roller shutter in order to carry out **local** light and blind control.

Switching:

• Electronic switch insert	• switching on/off manually
• Relay switch insert	• time-controlled switching on/off
• Electronic switch insert, 2-gang	• manually switching on/off both channels together
• Relay switch insert, 2-gang	• time-controlled switching on/off of both channels separately or together

Dimming:

• Universal dimmer insert	• switching and dimming manually
• Control insert 1-10 V	• time-controlled switching
• DALI insert	
• Universal dimmer insert, 2-gang	• manually switching and dimming both channels at the same time
	• time-controlled switching of both channels separately or together

Controlling blinds/roller shutter:

• Blind control insert	• raising/lowering manually
	• time-controlled raising/lowering
	• disabling blind movement (with magnetic contact)

Function overview of the module on sending insert

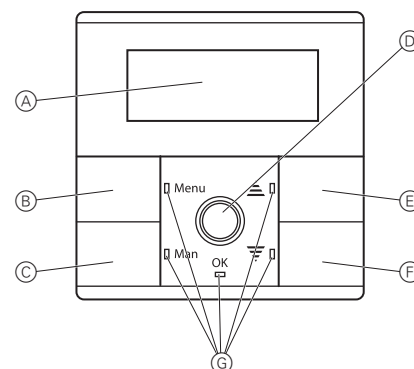
Complete the module with the sending central unit insert in order to carry out **global** light and blind control via the **PlusLink (PL)**.

Global light and blind control:

- Central unit insert
 - manual control for all PL lines together: switching, dimming, lowering/raising (push-button function) or retrieving scenes (scene function)
 - time-controlled for all PL lines together or each PL line separately: switching, raising/lowering

Connections, displays and operating elements

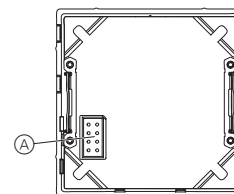
Front:



- (A) Display
- (B) Menu button
- (C) Manual push-button
- (D) OK button
- (E) UP arrow button ▲
 - Push-button function (factory setting): Raising/switching on
 - Scene function*: Scene 1
- (F) DOWN arrow button ▼
 - Push-button function (factory setting): Lowering/switching off
 - Scene function*: Scene 2
- (G) LEDs

*Can only be selected as alternative in combination with a central unit insert.

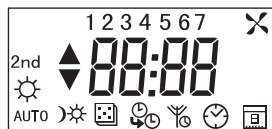
Rear:



- (A) Module interface

Display elements

i The displayed symbols depend on the inserts used and the sensors connected via PlusLink.



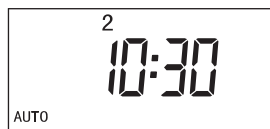
Individual display elements

You will see the following symbols on the display:

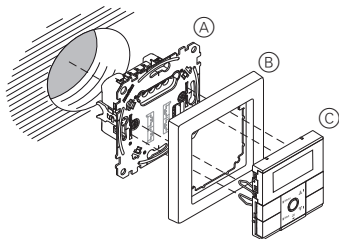
	Time and value display
1 2 3 4 5 6 7	Display of the weekdays 1 = Monday to 7 = Sunday
AUTO	Automatic mode
	<ul style="list-style-type: none"> Status display with switched load: Light on or raising the blind Switching times for raising/switching on
	<ul style="list-style-type: none"> Status display with switched load: Lowering the blind Switching times for lowering/switching off
	Setting the time
	Setting the day, month and year
2nd	Switching time 2
	Switching between summer and winter time

Standard display

Example of the standard display during operation:



Mounting the module

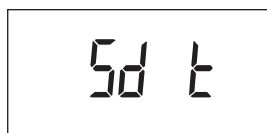


- (A) Insert (see function overview)
- (B) Frame
- (C) Display timer module standard

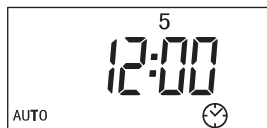
Initialising the module

After plugging the module onto the insert for the first time, information on the module type and module version are displayed for one second each. Standard display with flashing clock symbol follows this.

Module type display: Display timer module standard



Standard display with flashing clock symbol



Set time and date (see Section "Setting module: Basic menu settings").

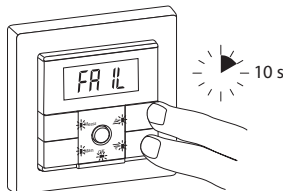
Error message after changing over the module

If the module is plugged onto an insert that differs in functionality from the previous one, the error message "FAIL" appears and all LEDs flash red.

For initialisation, reset the module to the default settings.

i When you do a reset to the default settings, previously saved settings are lost! The set time and date are not reset.

- ① Press the push-buttons and simultaneously for 10 seconds.



The standard display appears after resetting.

Getting to know the basic functions

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

Switching times

The module has a program memory that contains standard switching times that can be changed anytime.

The switching times perform specific actions:

- Switching time : Raise blind, switch on light
- Switching time : Lower blind, switch off light

Both switching times together result in a switching cycle. You can set switching times for two weekday groups:

- working days: Monday-Friday
- weekends: Saturday+Sunday

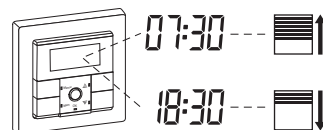
The switching times apply to all the days in a group.

Module in combination with switchable/dimmable inserts

Two switching cycles per day are available for each channel.

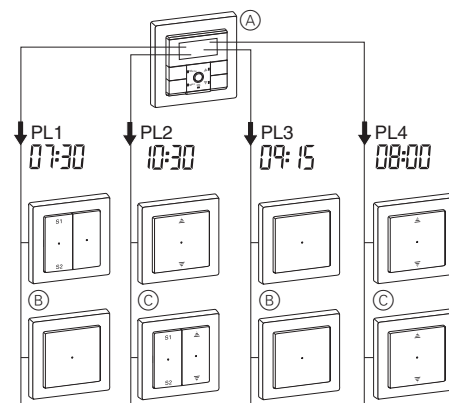


Module in combination with a blind control insert



Module in combination with a central unit insert

Two switching cycles per day are available for each PL line.



The standard switching times and weekday groups per channel or PL line are:

Weekday groups	Switching cycle	Switching times
Gr. 1 Monday - Friday (1-5)	1	07:30
	1	18:30
	2	--:--
	2	--:--
Gr. 2 Saturday - Sunday (6-7)	1	09:30
	1	22:00
	2	--:--
	2	--:--

Getting to know the menu

The module has two menu levels:

1. Menu level:

- Set time and date
- Set switching times

2. Menu level: Advanced menu

- Selecting arrow button function
- Save scenes
- Activating/deactivating automatic summer/winter time switchover
- Set individual blind movement time
- Set display brightness
- Set automatic deactivation of display lighting

The following push-buttons are used to operate the menu:

Push-button	Push-button action	Action
Menu	short	• Skip submenu
	long (2 s)	• Open menu • Quit menu
	long (4 s)	• Open advanced menu
	short	• Increase values (+1) • Browse submenu
	press and hold	• Increase values cyclically (fast mode): +15: Time/date data
	short	• Decrease values (-1) • Browse submenu
	press and hold	• Decrease values cyclically (fast mode): -15: Time/date data
OK	short	• Save settings • go to next menu command

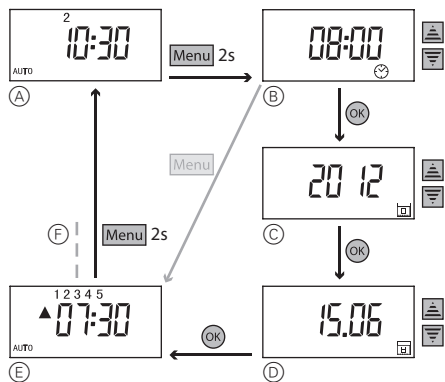
i With a long press of [Menu], the menu for setting the time and switching time appears after 2 s. To open the advanced menu, hold the [Menu] push-button down.

i If you do not press any push-button in the menu for more than 2 minutes, the standard display appears. Changes that are not confirmed with [OK] are not saved.

Setting module: Basic menu settings

Set time and date

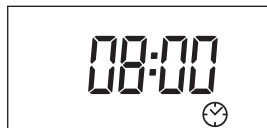
Menu structure



- (A) Standard display
- (B) Set the time
- (C) Set year
- (D) Set day and month
- (E) Set switching times
- (F) see "Set switching times"

Setting

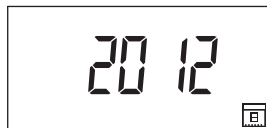
① Open menu: Press [Menu] push-button for 2 s. The time display flashes.



② Set current time using ▲ or ▼ push-button.

③ Confirm setting with [OK].

The year display flashes.



④ Set current year using ▲ or ▼ push-button.

⑤ Confirm setting with [OK].

The day and month display flashes.



⑥ Set current day and month using ▲ or ▼ push-button.

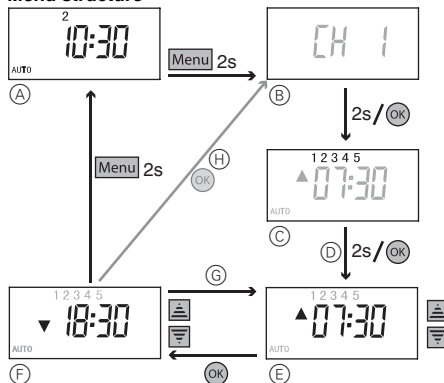
⑦ Confirm setting with [OK].

The "Set switching times" display appears.

To quit the menu: Press [Menu] push-button for 2 s.

Set switching times

Menu structure



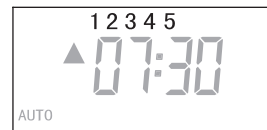
- (A) Standard display
- (B) Display of the channel / the PL line
- (C) Weekday group display
- (D) Set switching cycle 1
- (E) Set ▲ switching time
- (F) Set ▼ switching time
- (G) Set switching cycle 2
- (H) Setting switching times for the weekend

i In combination with a 2-gang insert you can set the switching times separately for each channel. The menu briefly displays the corresponding channel (CH 1/ CH 2) when it is started and every time the weekday group is changed.

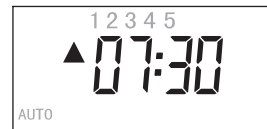
In combination with a central unit insert you can set the switching times separately for each PL line. The menu briefly displays the corresponding PL line (PL 1-4) when it is started and every time the weekday group is changed.

Setting

① Open menu: Press [Menu] push-button for 2 s. The display "Setting the time" appears. To set the switching time, briefly press the [Menu] push-button. The working days are briefly displayed.



The switching time ▲ of the first switching cycle for the working days is then displayed. The time display flashes.



② Set switching time ▲ with ▲ or ▼ push-button.

③ Confirm setting with [OK].

i You can delete the switching time with the [Man] push-button. If you press the push-button again, the previously set switching time is displayed.

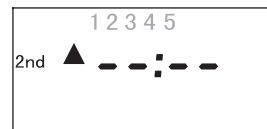
The time display flashes.



④ Set switching time ▼ with ▲ or ▼ push-button.

⑤ Confirm setting with [OK].

The time display flashes.



⑥ Set second switching time ▲ with ▲ or ▼ push-button.

⑦ Confirm setting with [OK].

i If you press the [Man] push-button a switching time set previously appears.

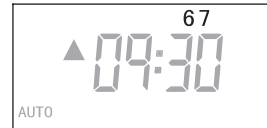
The time display flashes.



⑧ Set second switching time ▼ with ▲ or ▼ push-button.

⑨ Confirm setting with [OK].

The weekend days will be briefly displayed.



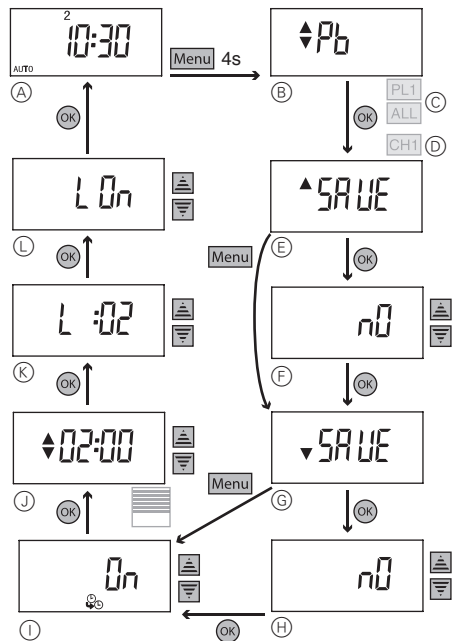
The time display flashes.

Repeat the individual steps for setting the switching time (see working days).

Setting module: Advanced menu

The possible settings in the advanced menu depend on the respective insert (see overview of functions).

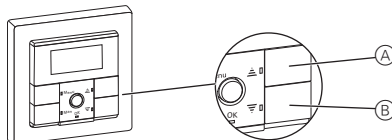
Structure of the advanced menu



- (A) Standard display
only in combination with a central unit insert
- (B) Selecting arrow button function
- (C) Display of PL line / ALL (scenes for four PL lines can be set separately / then global scenes for all PL lines can be set together)
- only in combination with switchable/dimmable inserts**
- (D) Channel display (scenes can be set separately for two channels)
- (E) Scene 1
- (F) Save scene 1
- (G) Scene 2
- (H) Save scene 2
- (I) Activating/deactivating automatic summer/winter time switchover
only in combination with a blind control insert
- (J) Setting individual blind movement time
- (K) Set display brightness
- (L) Set automatic deactivation of display lighting

Selecting arrow button function

(Only in combination with a central unit insert)

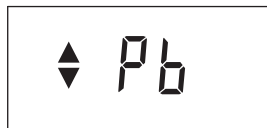


Push-button function / Pb	Scene function / SCn
(A) Raise blind / switch on light	Scene 1
(B) Lower blind / switch off light	Scene 2

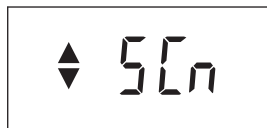
If the push-button function has been preset at the factory, you can use the arrow buttons to move the blinds up and down or turn the light on and off. Alternatively, you can use a central unit insert to retrieve scenes via the arrow buttons. You can individually save one scene per arrow button (see "Save scenes"). In order to do this switch the configuration of the arrow buttons from push-button function to the scene function.

- ① Open advanced menu: Press [Menu] push-button for 4 s.

The display for the arrow button function appears.



- ② Select function with push-button ▲ or ▼.



- ③ Confirm setting with [OK].

i Configuration of the arrow buttons with scene function applies in automatic mode and in manual mode.

Save scenes

The module allows you to save two scenes that are activated by switching times.

In addition to this, you can save two global scenes (PL 1-4) that can be retrieved with the arrow buttons. These global scenes are only possible in combination with a central unit insert and the respective scene function selected for the arrow buttons. (See "Selecting arrow button function")

i Display of the corresponding channel (CH 1/ CH 2), of the corresponding PL line (PL 1-4) and all PL lines (ALL)

- In combination with a 2-gang insert you can set two scenes separately for each channel. The menu briefly displays the corresponding channel (CH 1/ CH 2) when it is started and every time the weekday group is changed.
- In combination with a central unit insert you can set two scenes separately for each PL line. The menu briefly displays the corresponding PL line (PL 1-4) when it is started and every time the weekday group is changed.
- In combination with a central unit insert and the scene function for the arrow buttons you can set two global scenes for all PL lines. The menu briefly displays "ALL".

- ① Set brightness of lamps, and desired position of blind (any values possible) with push-button ▲ or ▼.

i **Saving blind scenes:**
Raise blind to the uppermost position and wait for 2 minutes (running time) until the status display ▲ disappears from the display. Then set the desired position of the blind.

- ② Open advanced menu: Press [Menu] push-button for 4 s.

Scene 1 display appears.

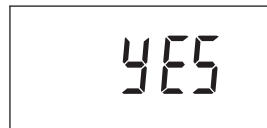


- ③ Confirm setting with [OK].

The "no" display appears.



- ④ Select save option ("yes") with push-button ▲ or ▼.



- ⑤ Confirm setting with [OK].

- Light scene: All lamps are switched off briefly and then back on again to indicate that the saving procedure has been successful. Then the lamps adopt the saved brightness value.
- Blind scene: The blinds are lowered and raised by one step to indicate that the saving procedure was successful.

Scene 2 display appears.



Repeat the individual steps of scene 1.

Activating/deactivating automatic summer/winter time switchover

- ① Open advanced menu: Press [Menu] push-button for 4 s.

- ② Press [Menu] push-button repeatedly until the following display appears.

"On" flashes.



- ③ Use the ▲ or ▼ push-button to select between "On" (switchover activated) and "Off" (switchover deactivated).
- ④ Confirm setting with [OK].

Additional settings for blind control

If the module is combined with a blind control insert, further functions are available (for more information see "Notes on advanced functions")

Setting individual blind movement time

- Open advanced menu: Press **[Menu]** push-button for 4 s.
- Press **[Menu]** push-button repeatedly until the following display appears.

The time display for the individual blind movement time flashes.



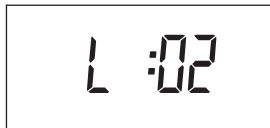
- Set the movement time (30 seconds to 3 minutes) with push-button **▲** or **▼**.
- Confirm setting with **[OK]**.

Display settings

Setting display brightness

- Open advanced menu: Press **[Menu]** push-button for 4 s.
- Press **[Menu]** push-button repeatedly until the following display appears.

The display brightness display flashes.



- Set the display brightness on a scale from 00 (off) to 04 (bright) with the **▲** or **▼** push-button.
- Confirm setting with **[OK]**.

Set automatic deactivation of display lighting

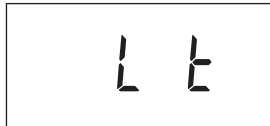
(The setting option is not shown if the display brightness is set to "0".)

- Open advanced menu: Press **[Menu]** push-button for 4 s.
- Press **[Menu]** push-button repeatedly until the following display appears.

The current setting appears (here default setting: Display lighting is on permanently):



- Change setting with push-button **▲** or **▼**.



LOn: Display lighting is on permanently.

Lt: Display lighting switches off automatically 10 seconds after the last input.

- Confirm setting with **[OK]**.

Notes on advanced functions

Additional functions for blind control

Individual blind movement time

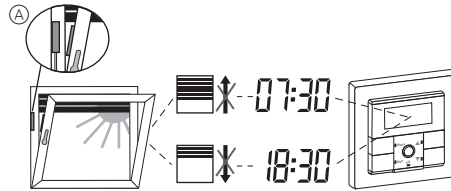
The module is preset at the factory so that the blind takes 2 min. to be lowered (and, where necessary, stops automatically when the lower limit position is reached). You can adjust this time freely between 30 seconds and 3 minutes. This means scenes can be performed faster. (see "Setting individual blind movement time").

Disabling blind movement with magnetic contact

(Only in combination with blind control insert, brightness sensor interface flush-mounted and magnetic contact)

Raising/lowering the blind via PlusLink commands or via switching times of the display timer module is disabled by a magnetic contact when the window or door is open.

Manual operation is still possible with the **▲** and **▼** push-buttons.



(A) Magnetic contact

CAUTION Risk of burglary!

Please bear in mind that the blind will not close while the window/door is open when using the magnetic contact.

Response to mains voltage failure and recovery / power reserve

In the event of mains voltage failure the display goes out. The following menu settings are saved permanently:

- Switching times
- Arrow button function
- Scenes
- Display settings
- Operating mode

The set time and date are saved for at least 6 hours thanks to the power reserve (no batteries required).

After mains voltage recovery the next switching time is carried out. Missed switching times are not carried out.

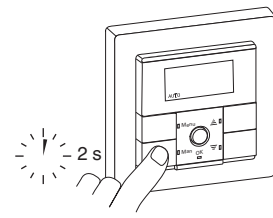
Operating the module

Deactivate the time and PlusLink control

Press the **[Man]** push-button to switch the module to manual mode and deactivate the control via set switching times and via PlusLink commands. Loads can then only be controlled manually with the **▲** and **▼** push-buttons.

i Exceptions:

- The panic scene is being executed.
- In combination with a blind control insert, the module reacts to sensor values via PlusLink and controls the blind accordingly.



To switch back, press the **[Man]** push-button for 2 s.

After switching to manual mode, "Auto" disappears from the display and the LED next to the **[Man]** push-button lights up red.

Basic functions

Status LEDs for the module

Operation	Status feedback
A hand presses the [Man] button. A light bulb icon indicates the LED status.	<ul style="list-style-type: none"> green LED briefly lights up upon actuation Arrow symbol appears when load is activated (light on / blind is raised)
A hand presses the [Man] button. A light bulb icon indicates the LED status.	<ul style="list-style-type: none"> green LED briefly lights up upon actuation Arrow symbol appears when load is activated (blind is lowered)

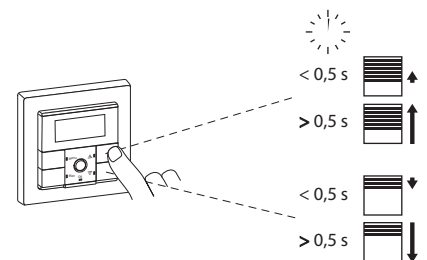
Resetting to default settings

Operation	Status feedback
A hand presses the [Man] button for 10 seconds. A clock icon indicates the duration.	all LEDs briefly flash red and all display symbols appear

Blind control

Controlling blinds

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



Global blind control

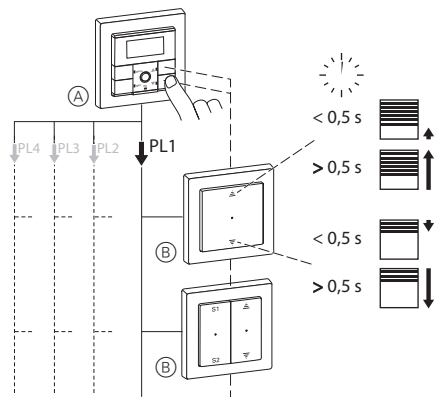
i Global control via PlusLink is possible in combination with the central unit insert and the display timer module standard.

Example of global raising/lowering and gradual up/down of 1-4 PL lines

Following activation of the push-buttons ▲ and ▼ of the module on the central unit insert, all loads in the PL lines are controlled together.

Arrow buttons with push-button function:

- Long push-button action (> 0.5 s): raising/lowering
- Short push-button action (< 0.5 s): up/down gradually

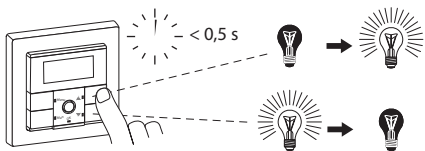


- (A) Module on central unit insert
- (B) Blind control insert

Light control

Switching load on/off

In combination with 1-gang / 2-gang insert

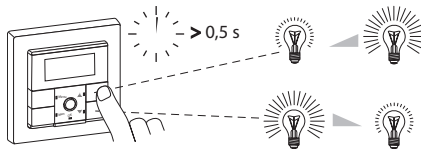


i In combination with a 2-gang insert both channels are switched together.

Display of the status arrow in the display only refers to channel 1.

Dimming load

In combination with 1-gang / 2-gang insert



i In combination with a 2-gang insert both channels are dimmed together.
Display of the status arrow only refers to channel 1.

Global light control

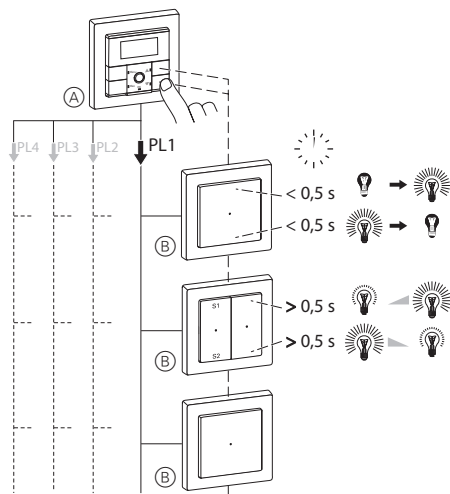
i Global control via PlusLink is possible in combination with the central unit insert and the display timer module standard.

Example of globally switching on/off and dimming the 1-4 PL lines

Following activation of the push-buttons ▲ and ▼ of the module on the central unit insert, all loads in the PL lines are controlled together:

Arrow buttons with push-button function

- Short push-button action (< 0.5 s): turn on/off
- Long push-button action (> 0.5 s): dimming



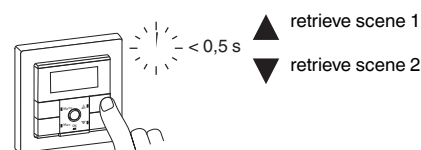
- (A) Module on central unit insert
- (B) Inserts for switching and dimming (see function overview)

Global blind and light scenes

i Global scenes are possible via the arrow buttons in combination with the central unit insert and the display timer module standard.

Arrow buttons with scene function:

- Short push-button action (< 0.5 s): retrieve scene 1/2



Controlling loads from another location via PlusLink

- Central unit insert or side controller Plus, 1-gang/2-gang: switching, dimming, controlling blinds and retrieving scenes
- Mechanical push-button/double push-button
- Sensor interface + sensors

What should I do if there is a problem?

"FAIL" flashes on the display, all LEDs flash red.

- Module was plugged onto an insert that differs in functionality from the previous one.
 - Reset module to default settings.

The blind or lighting does not react to a set switching time.

- PlusLink commands deactivate the switching times.
 - The panic scene is being executed.
 - Window / door with magnetic contact is open.
 - All other PlusLink commands and switching times are performed when levels 1 - 4 are not carried out.
- The module is in manual mode.

Technical data

Number of switching cycles (switching on/off, raising/lowering):

Switching, dimming, blind inserts:	per channel: 2 switching cycles / day
Central unit insert:	per PL line: 2 switching cycles / day

Functions

Drift:	< 1 s / day
Power reserve:	> 6 hours (no battery required)
Standard blind movement time:	2 minutes

Display elements:	<ul style="list-style-type: none"> • 5 LED • LCD display
Operating elements:	<ul style="list-style-type: none"> • Menu push-button • Manual push-button • OK push-button • arrow push-button UP ▲ • arrow push-button DOWN ▼
Connection:	module interface with 8 contact pins

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