:hager

6LE005267A

WYC81..Q, WYC82..Q, WYC84..Q

Radio Push button 1gang quicklink
Radio Push button 2gang quicklink
Radio Push button 4gang quicklink

Safety instructions

Electrical equipment must only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, directives to safety and accident prevention regulations of the country.

Failure to comply with these instructions may result in damage to the device, fire or other hazards.

The radio transmission is not suitable for safety or alarm applications.

These instructions are a component part of the product and must be retained by the end user.
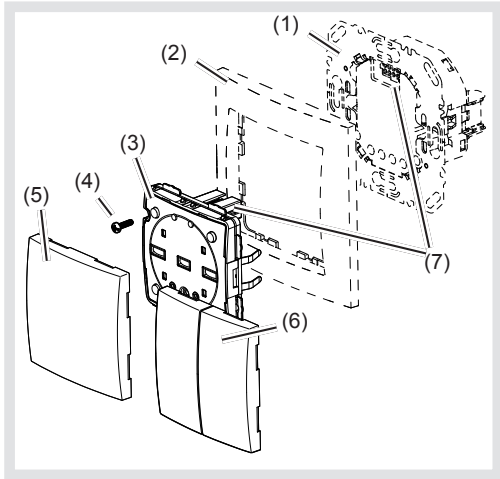
Design of the device

Figure 1: Design of the device

(1) Insert (see Accessories, not in scope of delivery)
(2) Frame (not in scope of delivery)
(3) Application module 1-, 2- or 4gang
(4) Screw for dismantling protection
(5) Button design cover
(6) Design cover, 2gang button or 4gang button
(7) Interface between application module and power module insert/application module

Function

System information

This device is a product of the quicklink system, in which installation devices communicate via radio signals.

Quicklink stands for a configuration mode in which the function-related connection between transmitters and receivers is set on the device through push-buttons and displays without further tools.

All devices configurable by quicklink can be operated together in one system.

This device is compliant to the R&TTE-Directive 1999/5/EG. The Declaration of Conformity and further system information can be found on our homepage www.berker.de.

The device may be used in all EU and EFTA countries.

Correct use

- For operation and remote control on a switch insert, on a flush-mounted dimmer or on a power supply for RF application modules
- The device has been conceived for smaller applications in which a maximum of 20 devices are allocated
- Only suitable for use in indoor areas, no drip or spray water

ℹ The quicklink configuration of the devices must only be carried out by qualified electricians.

Product characteristics

- Functions for remote control, scenes, control switches via radio signals
- LED display of insert/application module compatibility
- Saving of switch-on brightness-level when operated on a dimming insert

Operation

Operating concept

The operation of the top or bottom push-button operation area is evaluated differently for each button. Pressing the top and bottom push-button operation areas simultaneously actuates special functions.

Operation on a switch insert (Table 1)

Operation on a flush-mounted dimmer (Table 2)

Operation on a power supply for RF application modules

The push-buttons are freely configurable; operation is dependent on the configuration (Table 7).

Setting the load

If the dimming and switching performance of loads is unsatisfactory after startup, especially when circuited to energy-saving lamps and 230 V LED lamps, a load setting must be carried out if the push-button has been applied on a universal switching insert or universal touch dimming insert.

● Switch-off load.
● Press push-button top area and bottom area simultaneously for longer than 10 seconds.

The connected load flashes once. The device is in selection mode.

ℹ If there is no further operation within the next 10 seconds, the insert switches back to switching/ dimming operation.

● Press the button briefly several times to activate the desired setting mode (Table 3).

The load setting is executed.

Operation via extension unit, push-button, NO contact

ℹ The switch-on brightness-level cannot be saved on an extension unit push-button.

Load status	Switching button, factory setting	Switch insert
OFF	Press top or bottom	Switch ON load.
ON	Press top or bottom	Switch OFF load.

Table 1: Operation on a switch insert

Dimming status	Switching button, factory setting	Flush-mounted dimmer
OFF	Short press on top or bottom	Switch ON to saved switch-on brightness-level.
ON	Short press on top or bottom	Switch OFF.
ON	Simultaneous press on top and bottom > 5 s	Save current brightness level as switch-on brightness-level. As confirmation, the light briefly switches OFF and ON again. In delivery condition, the maximum brightness is saved as switch-on brightness.
ON/OFF	Long press on top	Dimming to maximum brightness-level
ON	Long press on bottom	Dimming to minimum brightness-level
OFF	Long press on bottom	Switching on with minimum brightness-level

Table 2: Operation on a flush-mounted dimmer

Press the button briefly	Setting mode	Confirmation of the load setting	Instructions
1 x	Load fine-setting	Load flashes 1 x after approx. 30 s and changes to switching/ dimming operation	Not suitable for ohmic loads (e.g. incandescent, HV halogen lamps); use factory load setting. If the load fine-setting does not bring any improvement for energy-saving lamps or 230 V LED lamps, select the energy-saving lamp fine-setting or 230 V LED lamp universal setting. The load fine-setting is not available on 2gang universal inserts.
2 x	Factory load setting	Load flashes 2 x after approx. 6 s and changes to switching/ dimming operation	
3 x	Energy-saving lamp fine-setting in phase cut-on	Load flashes 3 x after approx. 30 s and changes to switching/ dimming operation	Energy-saving lamps are switched ON at a brightness level of at least 50 % brightness in order to ensure an ignition process.
Universal touch dimmer up to version R0.x			
4 x	230 V LED lamp universal setting in phase cut-on	Load flashes 4 x after approx. 5 s and changes to switching/ dimming operation	The universal setting contains standard values which enable the operation of typical 230 V LED lamps.
Universal touch dimmer from version R1.1			
4 x	230 V LED lamp universal setting in phase cut-on or phase cut-off	Load blinks 4 x after approx. 5 s and changes to normal operation	The dimming principle and optimal switch-on brightness for the connected dimmable 230 V LED lamps are set automatically.
	For all setting modes	Load flashes 5 x	The selected setting mode is not supported by the insert.

Table 3: Load setting mode

Dimming status	Operation push-button	Switch insert	Flush-mounted dimmer
OFF	Press < 0.4 s	Switch ON	Switch on to saved switch-on brightness-level.
ON	Press < 0.4 s	Switch OFF	Switch-off
ON	Press > 0.4 s	Switch OFF	Dimming to minimum/maximum brightness level with alternating direction
OFF	Press > 0.4 s	Switch ON	Dimming from minimum to maximum brightness-level

Table 4: Operation via extension unit, push-button, NO contact

Information for electricians

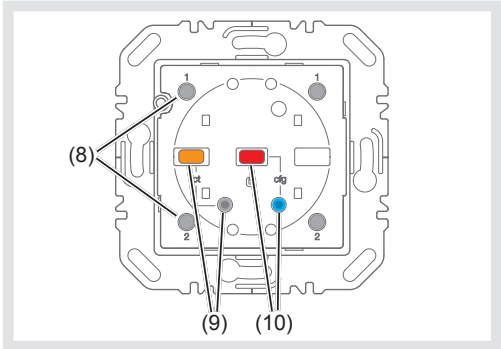### Overview of the operating elements beneath the design cover
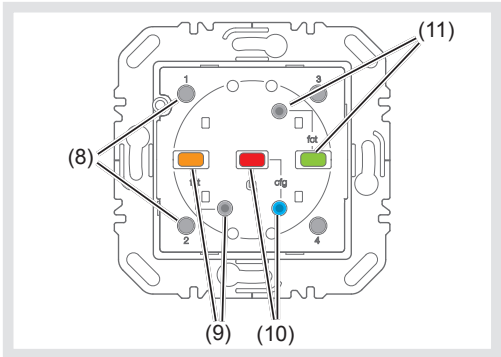

Figure 2a: Operating elements of the 1gang radio button

Figure 2b: Operating elements of the 2- and 4gang radio button

(8) Press-activation points of the operation areas
(9) **fct** button with **fct** LED
(10) **cfg** button with **cfg** LED
(11) **fct2** button with **fct2** LED

Mounting

Selecting mounting location

A minimum distance between the transmitter and corresponding receiver of about 1 m must be maintained.

A minimum distance to electronic devices which emit high frequency signals such as computers, electronic transformers or microwave devices of approx. 0.5 m must be maintained.

Mounting on or close to metal surfaces may cause malfunction.

Take material penetration into account. The range of the system can be optimised by selecting the best possible mounting location:

Material	Degree of material penetration
Wood, plaster, plasterboard, uncoated glass	ca. 90 %
Brick, press boards	ca. 70 %
Reinforced concrete, floor heating	ca. 30 %
Metal, metal grids, aluminium laminates, coated glass	ca. 10 %
Rain, snow	ca. 1 ... 40 %

Table 5: Material penetration

Assembly of the device (Figure 1)

The insert is installed (see operating instructions for the insert).

● Attach application module (3) together with frame (2) to a suitable insert (1) and establish a connection between the insert and the application and power module (7) via the interface.

As soon as the button is supplied with voltage, the **cfg** LED (Figure 2, 10) indicates whether the button and the insert are compatible with each other:

cfg LED display	Meaning
LED blinks in green colour for 5 s	Compatible
LED flashes red for 5 s	Not compatible
LED flashes orange for 5 s	Compatible, but not configured to each other. For a new configuration, the application module must be reset to factory settings.

● Establish dismantling protection with screw (4), if applicable.
● Click design cover (5 or 6) into place on application module (3).

ℹ If a configuration needs to be made or settings need to be changed, only attach the design cover afterwards.

Insert/cover combination and operation in factory setting

Depending on the insert used, the radio button in factory setting has the following function for local operation (Table 6).

	Radio button 1gang	Radio button 2gang	Radio button 4gang
Switch insert 1gang	on/off	--	--	on/off (RF)
Switch insert 2gang	--	on/off	on/off	on/off	on/off
Flush-mounted dimmer 1gang	dimming	--	--	dimming (RF)
Flush-mounted dimmer 2gang	--	dimming	dimming	dimming	dimming
Power supply for RF application modules	(RF)	(RF)	(RF)	(RF)	(RF)

on/off Switching (see operation on a switch insert)

dimming Dimming (see operation on a flush-mounted dimmer)

-- Not to be combined

(RF) Transmitter command freely configurable (see configuration of radio button as transmitter)

Table 6: Button operation in factory setting

Radio configuration - quicklink

The radio configuration sets the functional connection between commanding (transmitters) and function-executing (receivers) radio components. As such, wireless e.g. master, group, extension unit and time controls can be realised.

The following can be configured:
- The local operation of the load connected to the insert
- Radio commands to control other receivers
- Functions that are executed when radio commands are received

ℹ The top and bottom push-button operation area can be configured differently.

ℹ For configuration by means of Hager connection device TX100 or ETS, additional functions are available (see operating instructions for TX100 or application description for ETS).

Configuring the radio button as a receiver

Configuration to control the load connected to the insert (Table 7).
- via reception of a radio command
- via the local operation

ℹ Local operation is a function that is pre-configured at the factory and can be changed.

As an example, the configuration of a wall-transmitter and the radio button as receiver is described down below (Table 8).

The button design cover is not attached.

Configuring radio button as a transmitter

If the radio button is operated as a press-activation, then it can support the following functions for the receivers. The details of the function can vary depending on the receiver being used:

on/off	ON/OFF, single-surface operation
on	ON
off	OFF
☼	ON/OFF, dimming UP/DOWN, single-surface operation
+	ON/OFF dimming UP
−	ON/OFF dimming DOWN
▦1	Scene 1
▦2	Scene 2
⌛	Timer
⁄	NO contact (contact duration)
▲	Move UP, stop
▼	Move DOWN, stop

As an example, configuring the radio button with receivers for which the supported displays occur through the **cfg** LED and **fct** LED is described here. Different configuration displays, such as for receivers with display, are to be taken from the receiver operating instructions.

Deleting a configuration

To delete a configured receiver or the local operation, execute the configuration again.
- *Start configuration* (see configuring the radio button as a receiver).
- *Select transmitter button.*
- *Select function on receiver:* Select the function **Delete** on the receiver and *confirm function on the receiver*.
- *Conclude configuration:* Briefly press the cfg button on the transmitter.

Configuring group functions

By means of a group function, one transmitter controls several receivers. To do so, the same functions must be configured on all receivers.
- *Start configuration* (see configuring the radio button as a receiver).
- *Select transmitter button.*
- *Select function on receiver:* Select the group function as described above on each receiver to be integrated and *confirm function on the receiver*.
- *Conclude configuration:* Briefly press the cfg button on the transmitter.

Configuration of scenes

Individual settings for lighting and the position of blinds can be combined into scenes. Two different scenes can be created with quicklink and called up by pressing a button on the transmitter. A scene is created by configuring a push-button operation area of a transmitter (radio command) in the corresponding receivers with the scene function (Table 7).
- *Start configuration.*
- *Select transmitter button:* Select the button for the scene command.

fct LED display	Configurable functions		Function with transmitter actuation, Instructions
	On switch insert	On flush-mounted dimmer	
(orange)	on/off ON/OFF	☼ ON/OFF, dimming UP/DOWN	Briefly press button: Switching ON/OFF Push and hold button: Dimming, reverse dimming direction per actuation
(green)	on ON	+ ON, dimming UP	Briefly press button: Switching ON Push and hold button: Dimming UP to maximum brightness-level
(red)	off OFF	− OFF, dimming DOWN	Briefly press button: Switching OFF Push and hold button: Dimming DOWN to minimum brightness-level
(green/green)	▦1 Scene 1		Receivers are allocated to a scene by the configuration of the function. Briefer press of the push-button: Calling up the saved state of the connected load for the scene
(green/white)	▦2 Scene 2		
(red dashes)	⌛ Timer		Switching ON for the set switch-on time
(red/green)	⁄ NO contact (contact duration)		Switching ON when the switching contact is closed Switching OFF when the switching contact is opened
(white)	⊠ Delete		No function Assignment to the transmitter is deleted

Table 7: Configurable functions

- *Select function on receiver:* Select the scene function as described above on each receiver to be integrated and *confirm function on the receiver*.
- *Conclude configuration:* Briefly press the cfg button on the transmitter.

Changing/saving scenes

Switching, dimming and blind statuses of the receiver in a scene can be changed and saved.
- The load status can be configured locally or by remote control on the receivers integrated into the scene, e.g. light 1 = 60 % brightness level, light 2 = 40 % brightness level, blind down.
- Hold the transmitter button belonging to the configured scene command pressed for longer than 5 seconds.

  A brief status changeover of the receiver signals the successful saving of the scene.

Action step	Result
Start configuration	
● Briefly press the **cfg** button on the wall transmitter. ℹ Unless there is another actuation, configuration is automatically ended after 10 minutes.	The **cfg** LED on the wall-transmitter and the radio button light up red. All receivers within radio range also indicate the configuration mode.
Select transmitter button	
● Briefly press the press-activation point on the wall-transmitter which should activate the function.	The **cfg** LED on the wall transmitter flashes for 1 second. If it has already been configured, the **fct** LED of the radio button indicates the currently configured function.
Select function on receiver	
● Briefly press the **fct** button on the radio button until the desired function is displayed (Table 7).	After each actuation, the **fct** LED indicates the function. ℹ If the transmitter button has already been configured with a different receiver and/or the configured function is part of a group control, only this function can be configured. To change a function, the existing configuration needs to be deleted and the new one needs to be configured.
Confirming function on receiver	
● To confirm, hold the **fct** button pressed longer than 2 seconds.	The **cfg** LED flashes during the saving process (approx. 5 s). The fct LED confirms the function selection through the corresponding colour display. ℹ Rapid flashing of the **cfg** LED indicates a combination that is not possible or an error.
Finish configuration	
● Briefly press the **cfg** button on the wall transmitter again.	The **cfg** LEDs on the wall-transmitter, the radio button and all receivers within radio range go out. The function is configured.

Table 8: Configuring the function for the radio button

Locking/unlocking scene changes

To prevent unwanted changes to a scene, the changing of the scene can be locked.
- *Start configuration.*
- *Select transmitter button:* Select the button for the scene command.
- *Select function on receiver:* When the function **Scene 1** or **Scene 2** is displayed by the **fct** LED flashing green, hold the **fct** button on the receiver longer than 5 seconds until the **cfg** LED flashes briefly.

  Then the **fct** LED indicates the currently configured status by blinking:
  1 x blinking: Possible to change and save scene
  2 x blinking: Changing the scene is locked.
- Press the **fct** button and select the desired setting.

  The setting changes each time the button is pressed.

- To accept the selected setting time, hold the **fct** button pressed longer than 2 seconds.
- *Conclude configuration:* Briefly press the **cfg** button on the transmitter.

Setting of switch-on time for timer

For the function **Timer**, the switching-on time can be set on the receiver in stages. The factory setting is 3 min.
- *Start configuration.*
- *Select transmitter button:* Select the button for the scene command.
- *Select function on receiver:* When the function **Timer** is displayed by the **fct** LED blinking red (Table 7), hold the **fct** button on the receiver longer than 5 seconds until the **cfg** LED blinks briefly.

  The **fct** LED indicates the currently set switching-on time - for factory setting, 5 x (Table 10).
- Press the **fct** button.

  Each brief actuation of the **fct** button increases the switching-on time by one step.

ℹ During the setting, the **fct** LED indicates the switching-on time (Table 10) for orientation.
- To accept the selected switching-on time, hold the **fct** button pressed longer than 2 seconds.

Action step	Result
Start configuration	
● Briefly press the **cfg** button on the radio button. ℹ If there is no further operation, configuration is automatically ended after 10 minutes.	The **cfg** LEDs on the radio button and the receivers within radio range light up red.
Select transmitter button	
● Press the input of the push-button operation area for which a command should be configured.	The **cfg** LED on the radio button blinks for 1 second. Afterwards the radio button (transmitter) and receiver are in configuration mode and the **cfg** LEDs light up. If already configured, the **fct** LED of the receiver indicates the current function configured with the button.
Select function on receiver	
● Press the **fct** input on the receiver again briefly to select the desired function (see the receiver operating instructions).	After each actuation, the **fct** LED indicates a function. ℹ If the channel button has already been configured with a different receiver and/or the configured function is part of a group control, only this function can be configured. To change a function, the existing configuration needs to be deleted and the new one needs to be configured.
Confirming function on receiver	
● To save the allocation of command and function, hold the **fct** button on the receiver down for longer than 2 seconds.	The **cfg** LED flashes. After successful saving, the **fct** LED signals the saved function. ℹ Rapid flashing of the **cfg** LED indicates a combination that is not possible or an error.
Finish configuration	
● Briefly press the **cfg** button on the radio button.	The **cfg** LEDs on the radio button and all receivers within radio range go out. The radio command for the radio button has been configured.

Table 9: Configuring the radio button as a transmitter

- *Conclude configuration:* Briefly press the **cfg** button on the transmitter.

x-times flashing of the fct LED		Switch-on time
1	▮	1 s
2	▮▮	30 s
3	▮▮▮	1 min
4	▮▮▮▮	2 min
5	▮▮▮▮▮	3 min
6	▮▮▮▮▮▮	5 min
7	▮▮▮▮▮▮▮	15 min
8	▮▮▮▮▮▮▮▮	30 min
9	▮▮▮▮▮▮▮▮▮	1 h
10	▮▮▮▮▮▮▮▮▮▮	3 h

Table 10: Configurable switch-on times

Resetting the radio button to factory settings

The device is not in configuration mode.
- Hold the **cfg** button pressed for longer than 10 seconds until the **cfg** changes from a red light to blinking.
- Release the **cfg** button.

  The **cfg** LED blinks red rapidly. The device re-initialises itself. Meanwhile the **cfg** LED lights up red. Then the LED goes out and flashes 5 x to indicate the compatibility. The reset follows. The process lasts about 20 s.

ℹ This process deletes the complete configuration of the radio button. Settings on the insert (switch-on brightness-level, load setting) are not reset.

Appendix

Technical data

Radio frequency	868 MHz
Radio protocol	KNX radio
Power supply	via insert, see accessories
Quicklink logic functions	max. 20 transmitters/receivers
Receiver category	2
Transmitter duty cycle	< 1 %
Protection type	IP 20
Relative humidity	0 ... 65 % (no condensation)
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-20 ... +60 °C
Mounting orientation	interface between application and power module on top

Accessories

For Radio push button 1gang quicklink

Relay insert	WUC35
Universal switch insert 1gang	WUC21
Touch dimmer (R, L)	WUD86
Universal touch dimmer 1gang	WUD87
Power supply for radio application module	WUC18

For Radio push button 2gang quicklink

Universal switch insert 2gang	WUC22
Universal touch dimmer 2gang	WUD88
Power supply for radio application module	WUC18

For Radio push button 4gang quicklink

Relay insert	WUC35
Universal switch insert 1gang	WUC21
Universal switch insert 2gang	WUC22
Touch dimmer (R, L)	WUD86
Universal touch dimmer 1gang	WUD87
Universal touch dimmer 2gang	WUD88
Power supply for radio application module	WUC18