

Complies with
IMDA Standards
DA101847

TRM702AU

Radio transmitter flush-mounted with battery 2 inputs



- The device is to be installed only by a qualified electrician in accordance with the installation standards in force in the country.
- Cut off the 230V power supply before connecting the device.

The flush-mounting input module TRM702AU is a **quicklink** radio transmitter. Powered by battery, it can be used to interface 2 floating contacts (switches, automatic-control contacts or intrusion alarm panel contacts) which can thus be rendered communicating. **quicklink** radio products can be configured together and operated within the same radio installation.

Caption

- ① Pushbutton or standard switch
- ② Connector with inputs connection wires (length 11 cm)
- ③ 1 Battery 3V CR2430 (delivered non-assembled)
- ④ Battery enclosure
- ⑤ Pushbutton and configuration LED **cfg**



Do not cut the black color antenna wire and the input wires, even if they are not used.

Features

- 2 independent input channels.
- Supply by battery.

Operation of LED

- LED flickers for 1s when pressed : the product is not configured.
- LED goes on for 100ms after pressing: input is configured, control is transmitted.
- LED flickers quickly for 1s after pressing: battery is low.
- LED remains off: the battery level is too low.

Wiring, test and start-up

The modules are installed in a flush-mounting box of 60mm diameter in association with a push-button or a switch.

Depth will depend on the type of equipment used.

The length of connection shall not exceed 10m.

Wire not used shall be isolated.

Factory Reset

Maintain **cfg** pushbutton down until LED **cfg** flickers (>10s), then release. **cfg** LED turns OFF to signal Factory Reset end. This operation removes the entire product configuration in any configuration mode.

After power switch-On or Factory Reset, wait for 15s before to do a new configuration.

Change of battery

Battery ③ is placed under cover ④.

Battery change has no influence on the product configuration.



These instructions for use form an integral part of the product and must be retained by the end user.

Technical characteristics

Supply voltage	3 V CR 2430
Battery operating life with 10 manoeuvres per day	
Pushbutton control	> 5 years
Controlled by switch or temperature < 0 °C	> 3 years
Transmission frequency/ Emission power	433,05 - 434,79 MHz 10 mW
Dimensions	41 x 39.5 x 11 mm
Max. connection distance per input	< 10m
Minimum contacts closing time	50 ms
Operating temperature	-10 °C → + 50 °C
Storage temperature	- 25 °C → + 70 °C
Degree of protection	IP30
Receiver category 2 / Transmitter duty cycle <10%	



Metal surfaces in the direct vicinity of the product (e.g. flush mounted metal boxes) may reduce the radio range. If necessary, change the position of the product in the wall box to improve the range.

Avoid the use of a metal front plate for switches in combination with flush mounted metal boxes.



Hager Controls hereby declares that the radio transmitter/receiver complies with the 2014/53/ EU directive.

The CE declaration can be consulted on the site:

www.hager.com


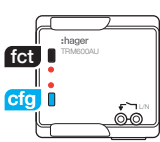
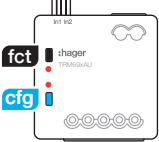
Description

quicklink designates the tool-free configuration mode, using the buttons function (fct) and configuration (cfg) and its Leds, located directly on the products. All products configurable in quicklink mode are compatible with one another and can be operated within the same installation.


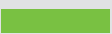













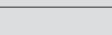

These products are used to control lighting and opening elements (roller shutters/blinds). Configuration involves assigning a function to each input of a transmitter and then linking it to one or more receivers to be controlled. For each receiver type, the table below shows the available functions associated with a colour LED.

Use with a home automation supervision system

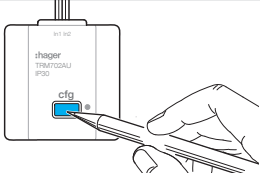
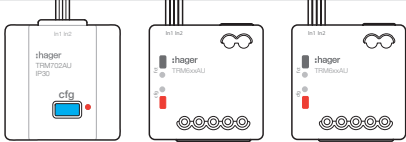
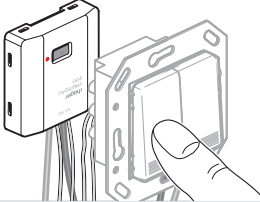
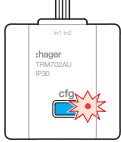
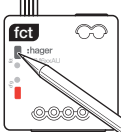
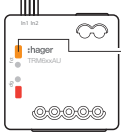
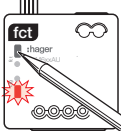
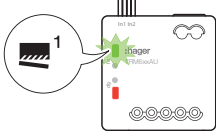
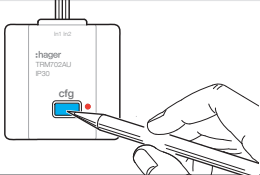
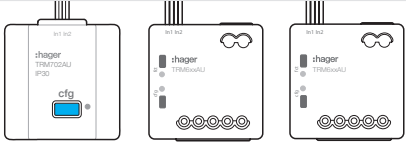
All these radio receivers can be associated with the home automation controller TKP100AU to take advantage of advanced control and display features (Control through smartphone or tablet). In this case, the complementary pairing procedure is initiated using the control software and may require the use of one or more buttons on the product. For more information, refer to the documentation for the home automation supervision system.

	Transmitters	Receivers	Transmitters/receivers
Buttons and LEDs	All are fitted with a cfg button and a corresponding status LED.	All are fitted with a cfg and an fct button and the corresponding status LED.	
Products	<div></div> <div>TRM702AU</div>	<div></div> <div>TRM600AU</div>	<div></div> <div>TRM690AU TRM691AU TRM692AU TRM693AU TRM694AU</div>

List of functions for...

- ON/OFF receivers		- Dimmer		- Shutter/blinds	
fct LED	Function	Function		Function	
	on off ON/OFF (Toggle switch)		ON/OFF Dimming +/-		Up/Stop
	on ON		ON, Dimming +		Up, stop
	off OFF		OFF, Dimming -		Down, stop
	 1 Scenario 1	 1 Scenario 1		 1 Scenario 1	
	 2 Scenario 2	 2 Scenario 2		 2 Scenario 2	
	 Timer	 Timer			Down/Stop
	 ON/OFF (switch)	 ON/OFF (switch)			Shutter control (switch)
	on  Priority ON			  Up priority	
	off  Priority OFF			  Down priority	
	 Clear	 Clear		 Clear	

Configuring a function (5 steps)

Action	Result	
<div>① Starting configuration</div> <div>Give a short press on the cfg button of the transmitter or transmitter/receiver.</div> <div></div>	<div>The cfg LEDs of all the receivers and the emitter come on.</div> <div></div>	
<div>② Input selection</div> <div>Give a short press on the button or a double switchover of the switch to be configured.</div> <div></div>	<div>The cfg LED of the emitter flashes for 1 s.</div> <div></div>	
<div>③ Function selection</div> <div>Select the function by successive short presses on the fct button of the receiver to be controlled.</div> <div><div><div>1x 2x 3x 4x ...</div></div></div>	<div>Scrolling of the functions indicated by the colour of the fct LED on the receiver (see list).</div> <div><div><div>1x 2x 3x 4x ...</div></div><div>on off on off 1</div></div>	
<div>④ Confirmation of the function</div> <div>Press for > 2s on button fct of the receiver until the cfg LED flashes.</div> <div><div><div>> 2</div></div></div>	<div>The function identified by the colour of the fct LED is confirmed.</div> <div></div>	
<div>⑤ Exiting configuration mode</div> <div>Give a short press on the cfg button of the transmitter or transmitter/receiver.</div> <div></div>	<div>The cfg LEDs of all the receivers and the emitter go out. End of configuration.</div> <div></div>	

Display of a configured function

In step ② the fct LED indicates the colour of the configured function.

Group control

Repeat steps ③ and ④ on the other receivers to be integrated in a group. Only the function selected on the first receiver and clearing will be available for selection on the other receivers.

Editing a configured function

In step ③, you can edit the displayed function, except in the case of group control where it is necessary to clear the receivers of the group before choosing a new function.

Clearing a configured function

In step ③ select the "Clear" function and then confirm in step ④.

Settings

Setting: Duration of the timer/scenario blocking
Setting of these parameters is required for:

- changing the value of the timer,
- authorising or prohibiting editing of a scenario by the user.

Example: Example: editing the duration of the timer
After having confirmed the timer function in step ④, (the actuator then flashes in timer mode), follow the steps below to select a value from the table of values, or else repeat steps ①, ② and ④ a.

Error signals

A very rapidly flashing **cfg** LED indicates an error or an incompatible link. (e.g. a group control mixing lighting and shutter commands).

System limit



A product may be linked to a maximum to 20 other products.

Timer function

A long press (> 1 second) of the timer control button stops the timer (except for the TRM694AU, timer = pulse function without interruption)

Action	Result
<div>④ a</div> <div>Press for > 5 s on button fct of the receiver until the cfg LED flashes.</div>	The fct LED goes off and then indicates the default value by the number of flashes.
<div>④ b</div> <div>Select the value by successive short presses on button fct.</div>	Scrolling of the values indicated by the number of flashes of the fct LED.
<div>④ c</div> <div>Press for > 2 s on button fct of the receiver until the cfg LED flashes.</div>	The selected function is confirmed.
<div>⑤</div> <div>Exit configuration mode by a short press on the cfg button.</div>	The cfg LED goes off; return to normal operation.

Setting the values

Number of flashes	Timer value	Scene lock
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	

*: Default value

Scenario function

The scenario control is used to activate the desired ambience directly, by simultaneously acting on various types of receiver (e.g. TV scenario: turn off the ceiling lights + switch on appliances + lower the shutters for the living room). This control can be assigned to any transmitter of the installation.

The scenario function is produced in 3 steps:

- Programming the links between the scenario button and the receivers to be controlled,
- Setting the scenario; this involves defining the desired state of each receiver concerned in your scenario (lamp on, level of dimming or shutter open, etc.)
- Storing of the defined ambience using the scenario button.

Programming the scenario

- In step ③ select the scenario function and confirm the link (step ④) on the first receiver,
- repeat steps ③ to ④ to link the remaining outputs to be controlled.

Note: an output can be integrated into a maximum in 2 different scenarios.

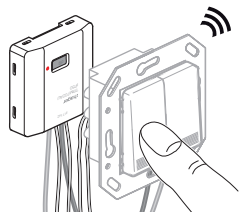
- Produce the desired ambience by using the individual controls of the various electrical receivers involved in your scenario (e.g. switch off the ceiling lights, dim the appliance to 50 %, open shutter to mid-height).

Note: Before setting the shutter in the desired position, learn the Up/ Down times by following the learning procedure.

Storing the scenario

- Store the status of the receivers corresponding to the scenario by a long press, > 5 s, on the scenario button that activates the scenario.

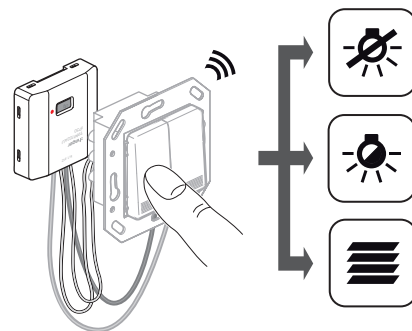
A brief change of status of the outputs indicates storage of the status of the various electrical receivers. After this, each press on the scenario button restores this memorised ambience.



Each new long press, > 5 s, stores the new ambience.

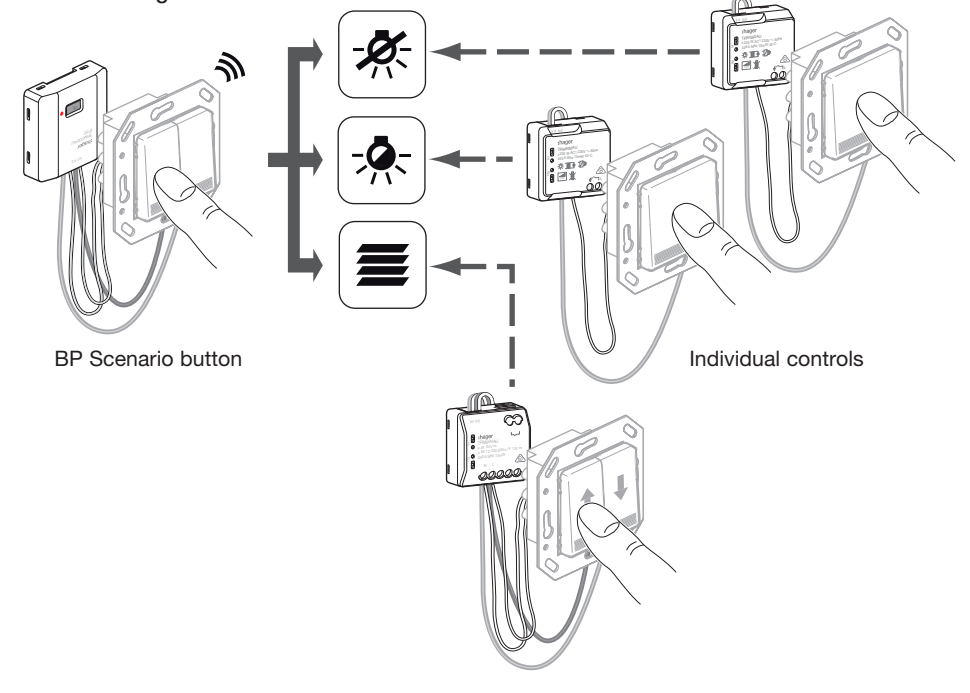
Ex. e.g. TV scenario

BP Scenario button



Setting the scenario ambience

Scenario setting



Pilot remotely your installation

The TRM6xxAU products and the Coviva box allow you to control your lights and shutter with your smartphone (for more information see TKP100AU documentation).



Application examples

Uses cases for μ modules offer and Coviva box

Radio solution for piloting lights and shutter or blinds. These products allow you to enrich your installation by adding radio controls in an easy way (see below some examples of applications). In addition with the Coviva application, you can control these circuits locally or remotely with your smartphone.

1.Transform a single way circuit into a two ways circuit by re-using the existing switch

How to do ?

On the TRM690AU side:

- Connect the 2 wires from existing switch to the device, no neutral wire needed. The TRM690AU is compatible with incandescent, halogen and dimmable LED lamps;

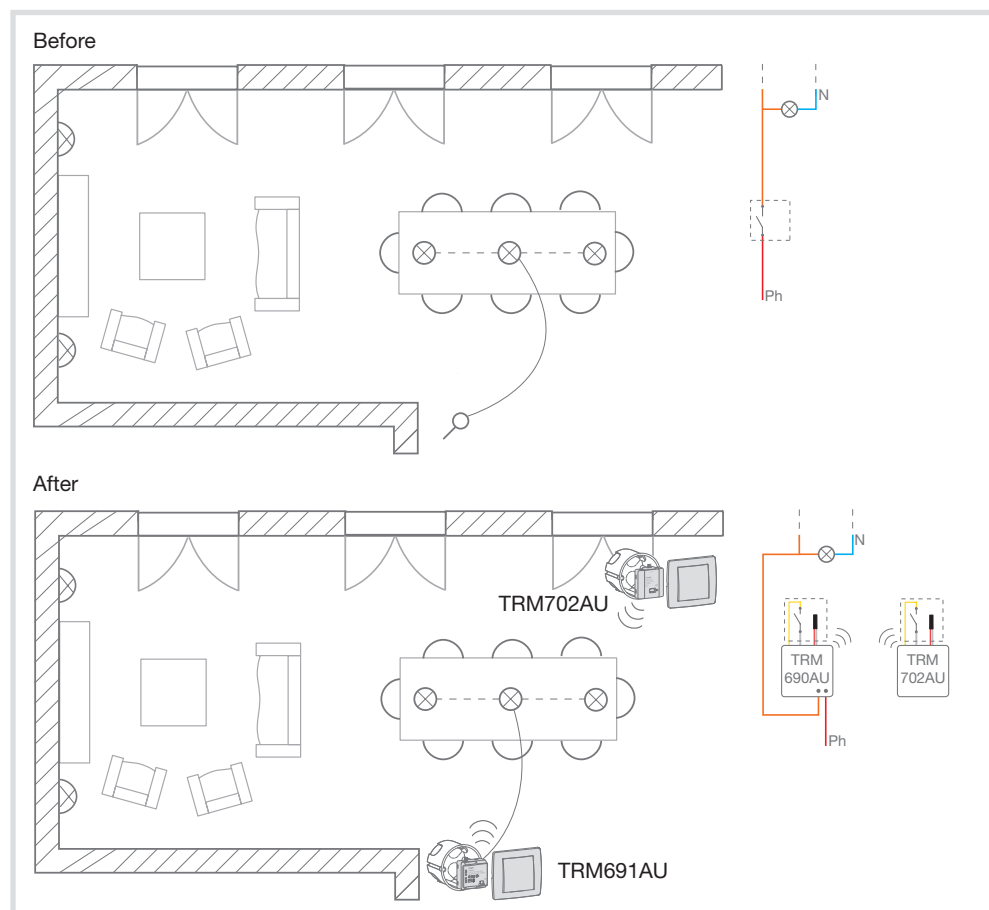
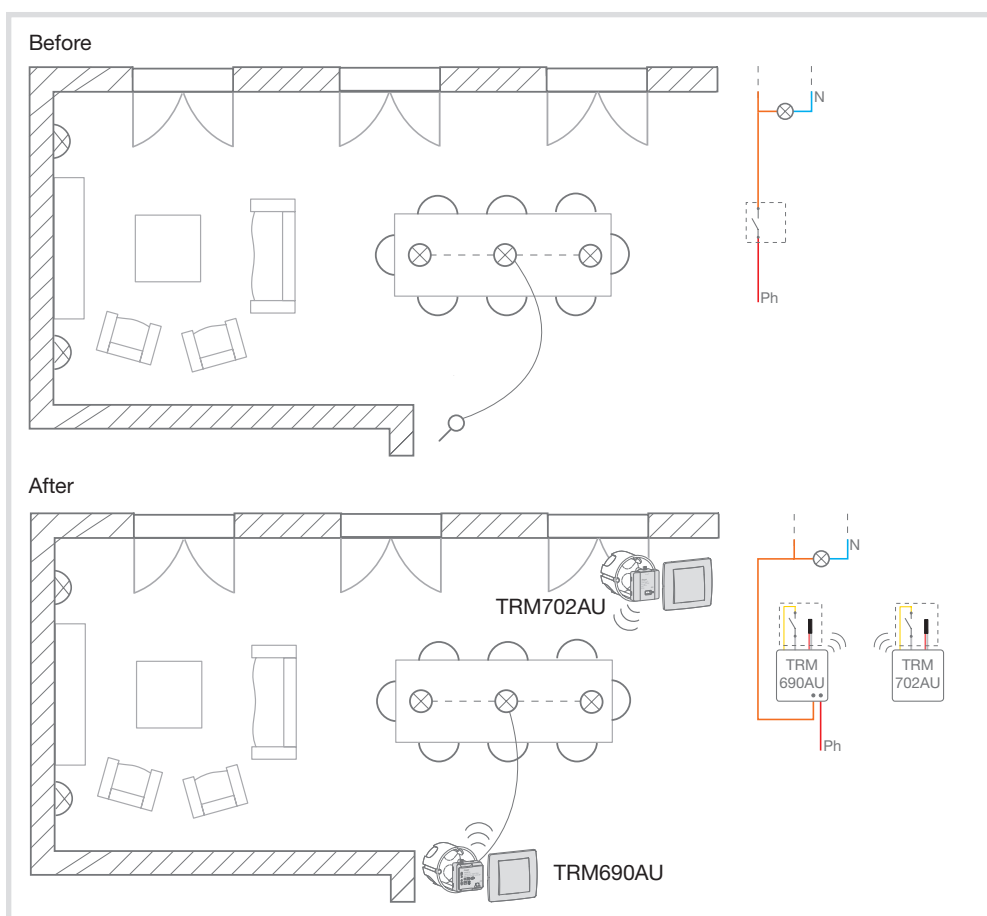
- Connect the existing switch to the input one (white and yellow wire) of the TRM690AU;

Now the product is working with toggle function (factory set-up) if you want, the internally link can be edited, deleted or modified, see configuration.

On the TRM702AU side:

- Connect an additional switch or push button to the input 1 and create the link with the toggle function to the output from the TRM690AU (see configuration).

In both cases, the input 2 stays in reserve for other use if you want.



2.Transform a single way ON/OFF circuit into a two ways dimmer circuit

How to do ?

On the TRM691AU side:

- Connect the 2 wires from existing switch to the device, no neutral wire needed. The TRM691AU is compatible with incandescent, halogen and dimmable LED lamps;
- Replace the existing switch by a push button (Short push = ON/OFF; maintained push = increase/decrease) and connect it to the input one (white and yellow wire) of the TRM691AU.

Now the product is working with dimming function (factory set-up,) if you want the internally link can be edited, deleted or modified, see configuration.

On the TRM702AU side:

- Connect an additional push button on the input 1 and make the link with the output from the TRM691AU by selecting the dimming 1 button function (see configuration).

In both cases, the input 2 stays in reserve. If you want, you can make a 2 push buttons dimming function with:

- push button 1 = ON by short push and increase by long push
- push button 2 = OFF by short push and decrease by long push.

3. Transform a double switch into a double two ways switch

How to do ?

On the TRM690AU side:

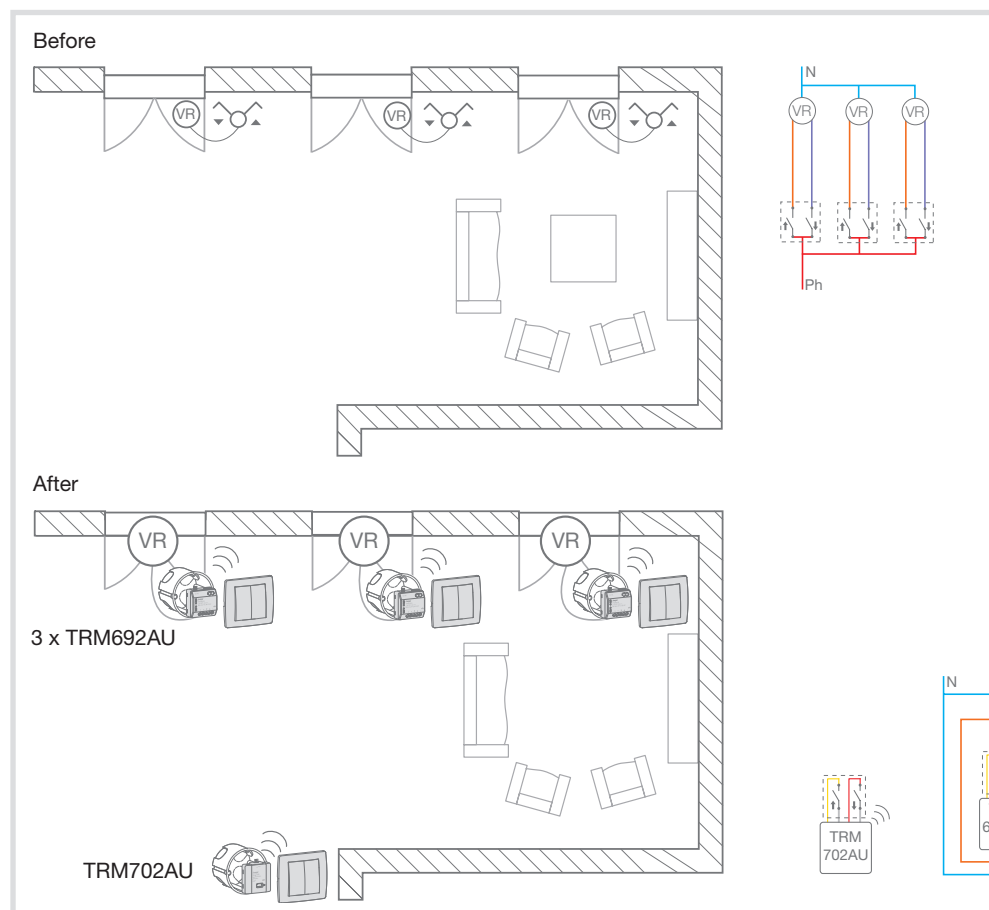
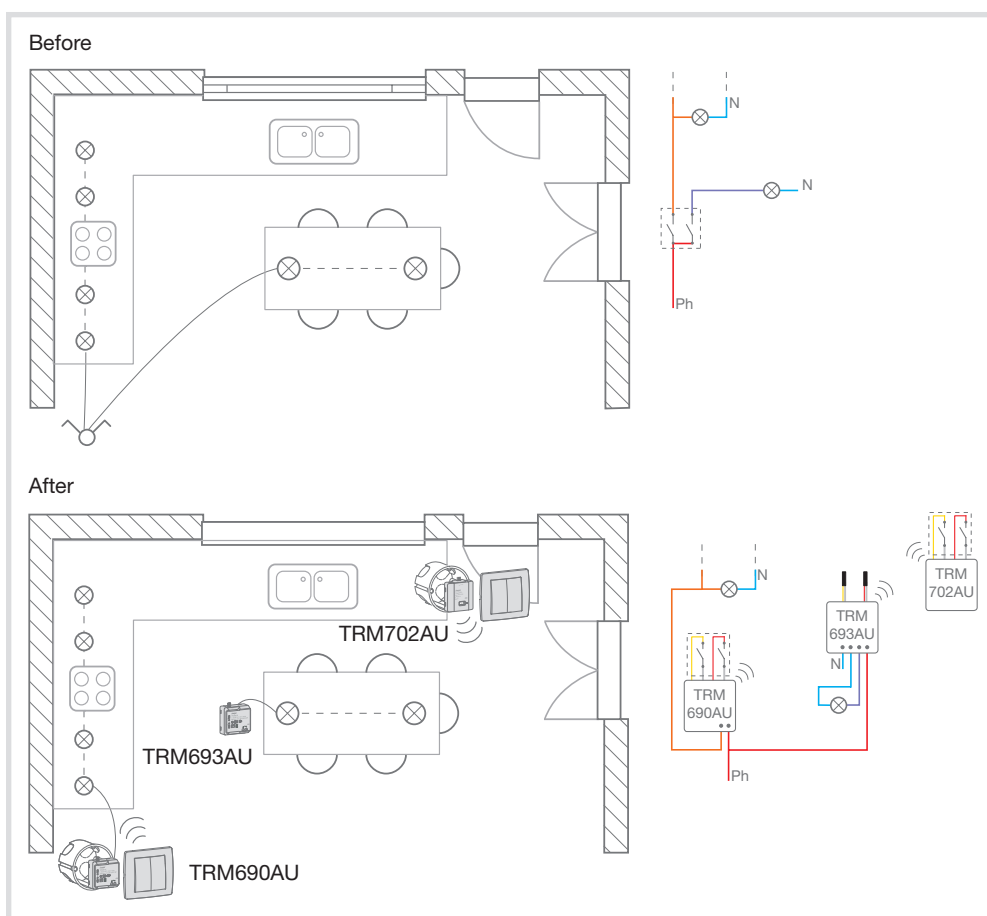
- Disconnect the existing double switch and connect the phase on the "L" terminal block and the wire for lamp 1 to the output of the TRM690AU device. Make a bridge between the phase and the wire for the lamp 2.
 - Connect the double existing switch to the 2 inputs of the TRM690AU;
- Now the input 1 is directly working with toggle function (factory set-up). After installation, the second input must be linked to the output of the TRM693AU by a toggle function (see configuration).

On the TRM693AU side:

- Connect the phase and the neutral wires to the TRM693AU. Connect the wire for the lamp 2 on the output of the TRM693AU. The inputs will not be used.

On the TRM702AU side:

- Connect an additional double switch to the 2 inputs of the TRM702AU and program it:
 - Input 1: link with toggle function to TRM690AU (lamp1);
 - input 2: : link with toggle function to TRM6930AU (lamp2).



4. Make a group control for "x" motorized shutter or blinds (example with 3 motors)

How to do ?

For each motor TRM692AU for individual control:

- Disconnect the existing double switch/ push button. Connect the phase and the neutral wire respectively at the "L" and "N" terminals block. Connect the 2 wires for the motor at to the Up and Down terminals of the TRM692AU device.
 - Connect the double existing switch to the 2 inputs of the TRM692AU;
- If switches are used to control the shutter, they are directly working with Up/ Down function (factory set-up). If push buttons are used, you have to modify the function by selecting Up function for input 1 and Down function for input 2 (see configuration).

On the TRM702AU side for group control,

- Connect an additional double switch or push button and program it:
 - Input 1: link with Up (for switch or push button) function to the 3 TRM692AU;
 - Input 2: link with Down (for switch or push button) function to the 3 TRM692AU.

