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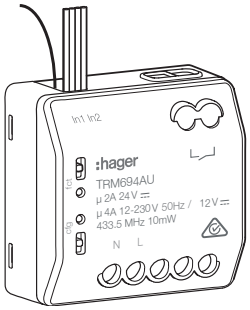


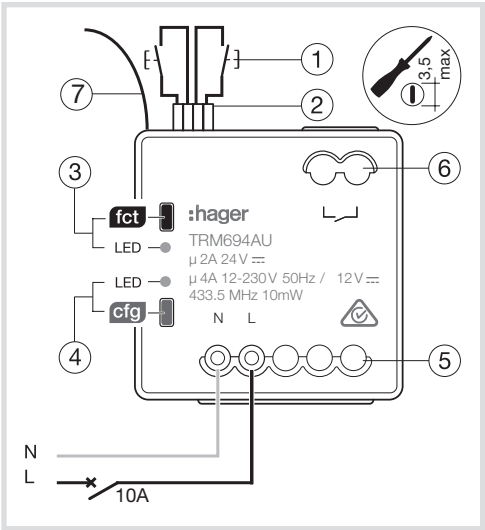
6LE005079D

quicklink

Complies with IMDA Standards DA101847

TRM694AU

Radio transmitter/receiver 2 inputs + 1 output 4A



⚠ Metal surfaces in the direct vicinity of the product (e.g. flush mounted metal boxes) may reduce the radio range.
Avoid the use of a metal front plate for switches in combination with flush mounted metal boxes.

⚠
- This unit is to be installed by a qualified professional only according to the installation standard in force in the country.
- Cut off 230V power supply to the product before connection of or operation on the inputs.
- Do not remove the insulating sleeves on the unused input wires.

The TRM694AU is a radio transmitter/receiver, powered by the mains.

It includes:
- 2 inputs for connection of pushbuttons, switches or contacts for automatism,
- a free of potential output for ON-OFF control of electrical loads.

The inputs connected to the product are freely programmable. They can control the local output or other outputs.

This product can also be used for pulse control for opening or closing of a garage door or an electric latch. To do this, select the control type to be:
- either the timer function (see table of pulse durations, adjustable from 400 ms to 8 min).
  Note: the press of the control pushbutton should be **< 1 second)**
- or the switch function; the pulse duration will be equal to the press duration on the control pushbutton connected to the input.

This product can be remotely controlled by radio transmitter devices and by the Coviva box.

The TRM694AU is equipped with two binary inputs for connection of conventional switches or push buttons in order to transform them into radio switches or radio push buttons.

Caption

① Pushbutton or standard switch
② Wires for connecting the 2 inputs for a switch or pushbutton
③ Pushbutton and feature LED **fct** of output
④ Pushbutton and configuration LED **cfg**
⑤ Connector block:
- L : Phase 230 V~
- N : Neutral

⑥ ⌐¬ : SELV-free of potential output contact
⑦ Antenna

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

Features

- 1 independent channel controlled by radio (μ contact 4 A, 12-230 V; 4 A, 12 V ⎓; 2A, 24 V ⎓)
- 2 inputs for contact free of potential.

In operation:

- Availability of output manual control by pushbutton **fct**
- Display of output state on LED **fct** (red light ON = relay closed).

The specific features of each product depend on configuration and set-up.

Timer function (pulse)

Default value: 0.4 s. To configure a different pulse duration, refer to the chapter Quicklink configuration / Settings.

Possible values: 0.4 s; 1 s; 2.5 s; 5 s; 10 s; 20 s; 45 s; 90 s; 4 min; 8 min.

Number of green blinks of the fct LED		Timer value
1	▮	**0,4 s**
2	▮▮	1 s
3	▮▮▮	2,5 s
4	▮▮▮▮	5 s
5	▮▮▮▮▮	10 s
6	▮▮▮▮▮▮	20 s
7	▮▮▮▮▮▮▮	45 s
8	▮▮▮▮▮▮▮▮	90 s
9	▮▮▮▮▮▮▮▮▮	4 min
10	▮▮▮▮▮▮▮▮▮▮	8 min

Factory set-up

By default, input 1 is configured to receive a pushbutton and to control the local output in timer function with a pulse duration of 0.4 s (garage door control).

This link can be edited or deleted in configuration mode.

! A factory reset of the product reinstalls this link (factory settings).
Input 2 is not pre-programmed.

Repeater function

This function increases the radio range of the system by re-emission of messages received by the product.

Inactive by default, it can be activated/deactivated by a press (> 5 s) of the **fct** pushbutton:
- 1 blink of the **fct** LED = activation of the repeater function
- 2 blinks of the **fct** LED = deactivation.

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.

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

Technical characteristics

Supply voltage	230 V~ +10 %-15% 50 Hz 240 V~ +6%/-6% 50 Hz
Product consumption	150mW
Transmission frequency/ Emission power	433,05 - 434,79 MHz 10 mW
Upstream protection: circuit breaker	10 A
Typical dissipation at rest	150 mW
Typical dissipation under load	150 mW
Maximum switching rate at full load	20 switching cycles/minute
Dimensions	40 x 40 x 20 mm
Electrical characteristics of the inputs	12 V 1 mA
Max. connection distance per input	< 10 m
Operating altitude	≤ 2000 m
Pollution degree	2
Surge voltage	4KV
Overvoltage category	III
Mechanical shock	IK04
Degree of protection	IP 20
Operating temperature	-10 °C —> + 50 °C
Storage temperature	- 25°C —> + 70 °C
Receiver category 2 / Transmitter duty cycle <10%	
Electric connection:	0,5 mm² —> 1,5 mm² 0,5 mm² —> 2,5 mm²

Load type

AC1	12-24 V~ / ; 230 V	Resistive load	4 A
DC	12-24 V ⎓	Inductive load	4 A 12 V ⎓ ; 2 A 24 V ⎓
AC Cos Φ 0.6	12 —> 230 V~	Inductive load	4 A
	230 V~	Incandescent lamps	600 W
	230 V~	halogen lamps	600 W
	230 V~	Halogen ELV (12 or 24 V) via ferromagnetic transformer	600 VA
	230 V~	Halogen ELV (12 or 24V) via electronic transformer	600 VA
	230 V~	Fluorescent tubes non compensated	40 W
	230 V~	Compact fluorescent, LEDs	40 W

quicklink configuration instructions

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 **quick**link 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).

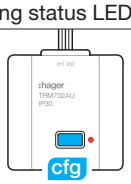
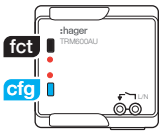
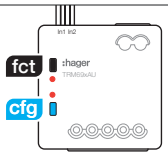
In this case, the complementary pairing procedure is initiated using the control software and may require the use of one or more buttons on the product. For more information, refer to the documentation for the home automation supervision system.

CE and

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

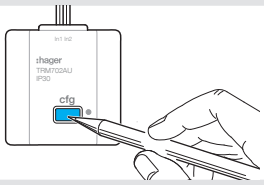
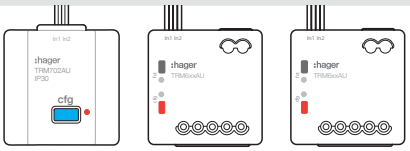
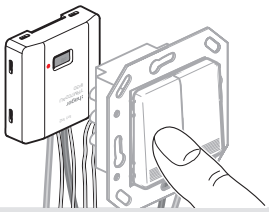
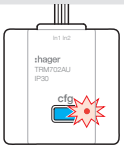
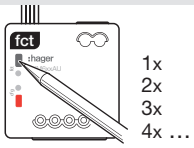
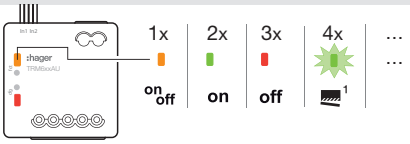
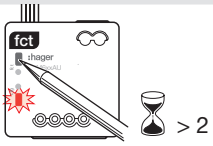
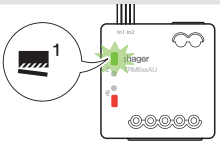
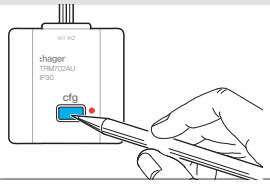
Description of configurable products in quicklink

	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	 TRM702AU	 TRM600AU	 TRM690AU TRM691AU TRM692AU TRM693AU TRM694AU

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

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 ④a.

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
④a	Press for > 5 s on button fct of the receiver until the **cfg** ● LED flashes.	The **fct** LED goes off and then indicates the default value by the number of flashes.
④b	Select the value by successive short presses on button fct.	Scrolling of the values indicated by the number of flashes of the **fct** LED.
④c	Press for > 2 s on button fct of the receiver until the **cfg** ● LED flashes.	The selected function is confirmed.
⑤	Exit configuration mode by a short press on the cfg button.	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:
A. Programming the links between the scenario button and the receivers to be controlled,
B. 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.)
C. 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.

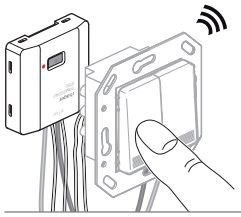
- Produce the desired ambience by using the individual controls of the various electrical receivers involved in your scenario (e.g. switch off the ceiling lights, dim the appliance to 50 %, open shutter to mid-height).

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

Storing the scenario

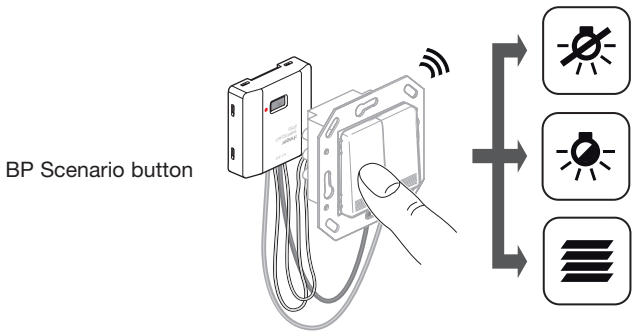
- Store the status of the receivers corresponding to the scenario by a long press, > 5 s, on the scenario button that activates the scenario.

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.



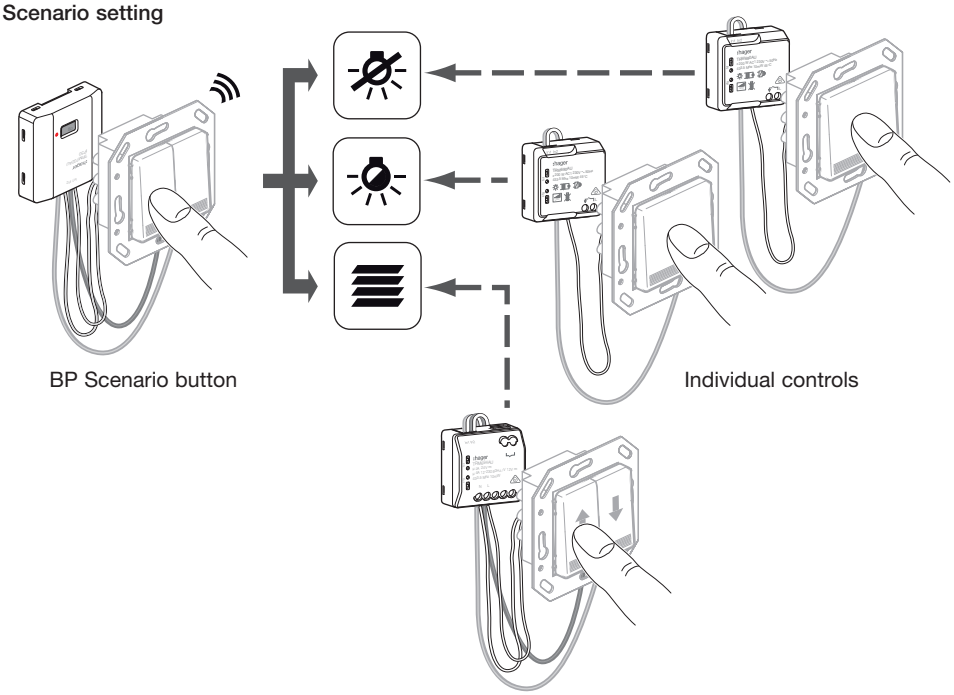
Each new long press, > 5 s, stores the new ambience.

Ex. e.g. TV scenario



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:

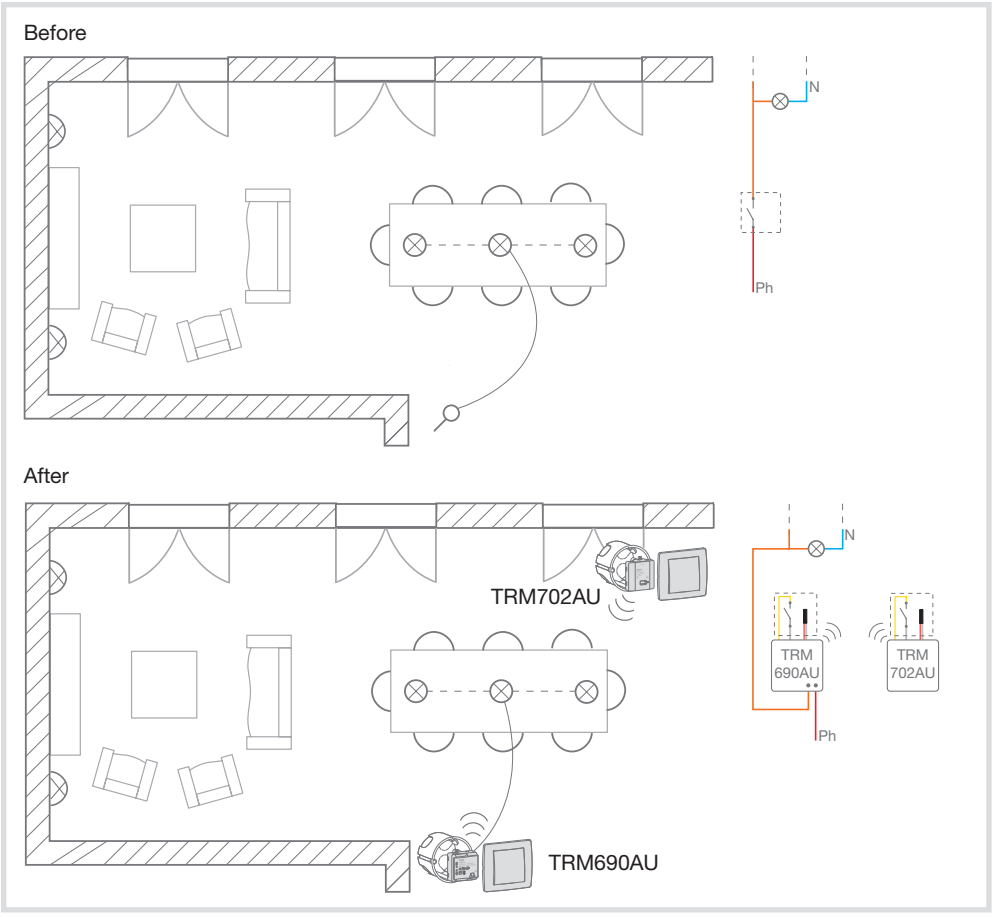
- Connect the 2 wires from existing switch to the device, no neutral wire needed. The TRM690AU is compatible with incandescent, halogen and dimmable LED lamps;
- Connect the existing switch to the input one (white and yellow wire) of the TRM690AU;

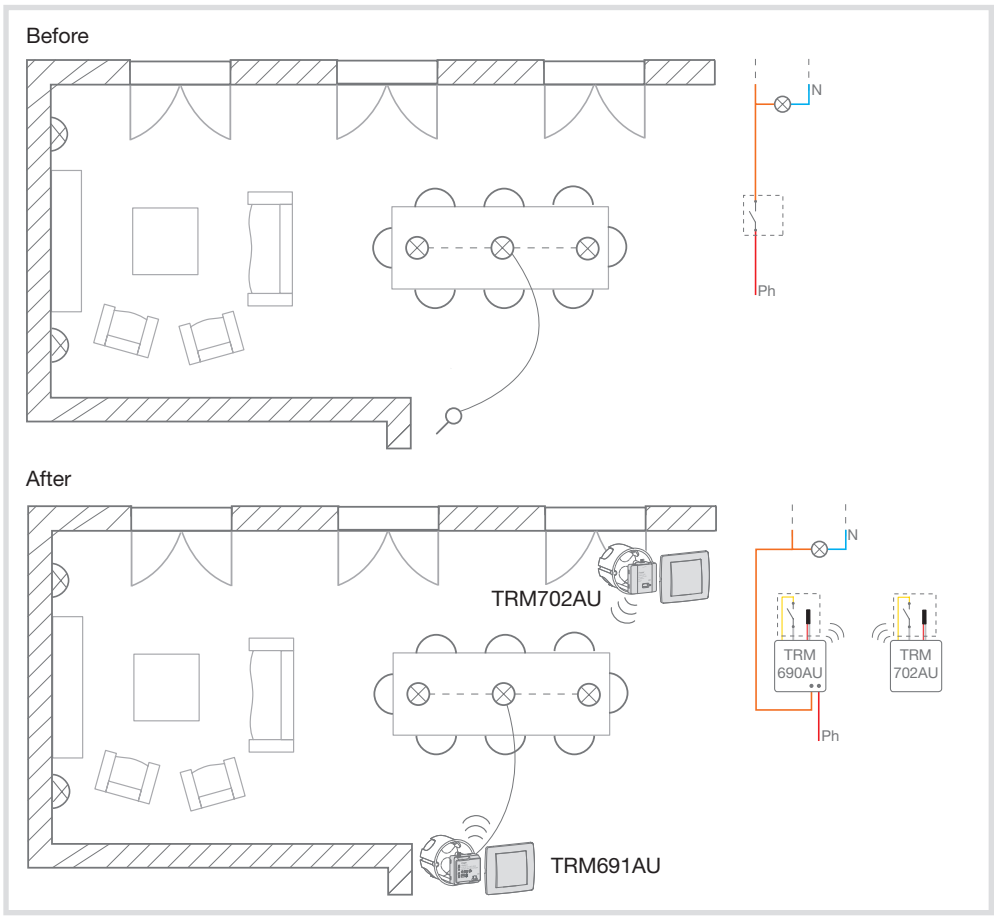
  Now the product is working with toggle function (factory set-up) if you want, the internally link can be edited, deleted or modified, see configuration.

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;

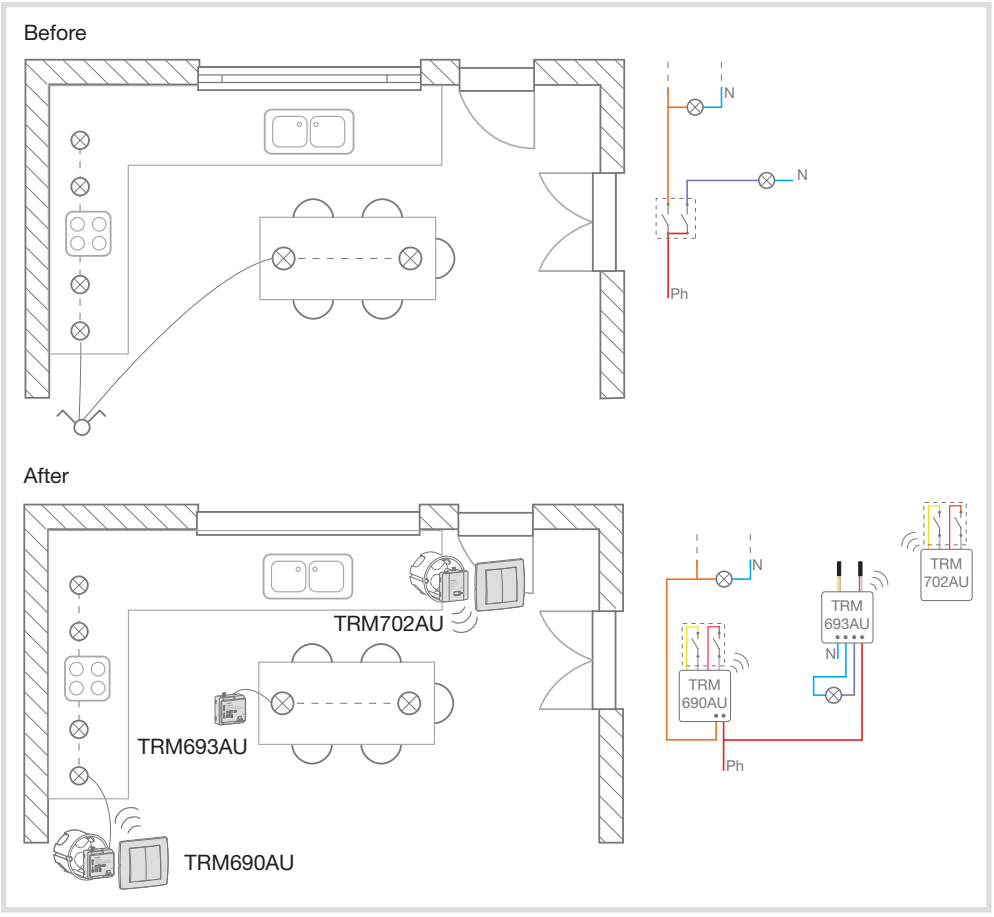
  Now the input 1 is directly working with toggle function (factory set-up). After installation, the second input must be linked to the output of the TRM693AU by a toggle function (see configuration).

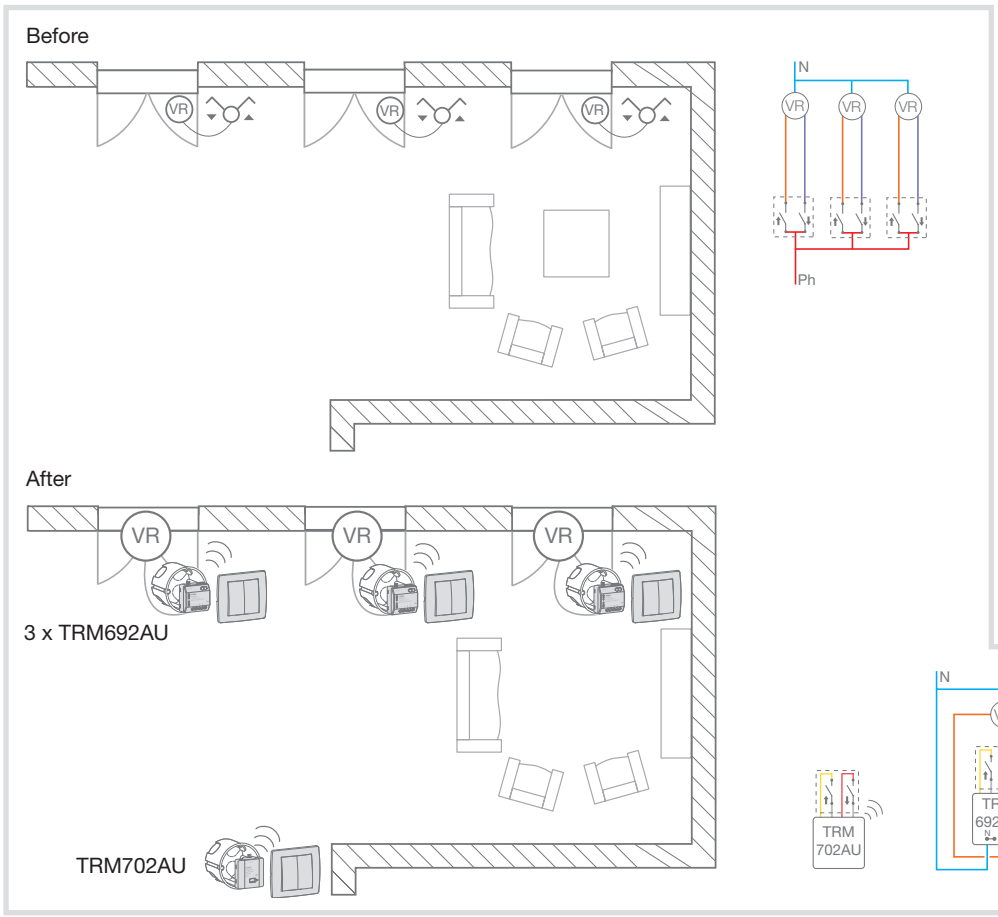
On the TRM693AU side:

- 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.