Yokis®

URMET|GROUP

News

Yokis Pro

Yokis hub

Yo key

Yn⏻

2018 CATALOGUE

Digital modules for the automation of the electrical system

RESIDENTIAL & TERTIARY

Automation / Lighting / Window shutters / Centralisation / Radio System

Yokis: the ally for your electrical system.

Yokis is a complete range of digital modules, composed of transmitters, receivers and remote controls able to create simple home automation systems that allow to use multiple controls for centralised management of shutters, lights and automatic systems with no control units.

Yokis is available in **wired, radio and hybrid** version, depending on the system requirements and the application field, and is able to manage a number of programmes and functions. In fact, there is a wide range of solutions available for lighting and automation: controls, dimmers, centralisation, timing, scenarios, signalling systems, night saving modules.

In 2017, Yokis catalogue is completed with the new **Yokis Pro** application, allowing to create, programme the electric systems, at the installation site or in laboratory, by using a tablet and the **Yokey** communication USB key. Also for the end user, Yokis created Yno, the app to control and activate the automated system of your home.

Yokis modules stand out for ease of wiring and installation, as well as for maximum flexibility and easy programming, that significantly reduce time and cost of professional installers, positioning as benchmark especially for refurbishment market.

For this purpose, Yokis modules - essential and characterised by a great versatility of use - represent a key element to reduce set-up time of the electric system, allowing the management of different interconnected solutions, thanks to a latest generation microprocessor. A single module includes multiple functionalities and therefore can be the right solution for different system issues.

Multiple advantages for the end users, in a click: Yokis combines easy building automation functions with *smart* applications that increase home comfort, such as the creation of light-shutter scenarios, the presence simulation at home or the activation of a children's room night light.

Finally, the **after-sales service** provided by Urmet is a further benefit of these systems, that aim at the full satisfaction of the final user, through a total integration of the electric system with the other devices present in the house, such as video door phones and intrusion alarm systems, ensuring the highest standards in terms of comfort and security for people inhabiting it.

AN INTERNATIONAL
NETWORK

Yokis products are distributed by Urmet sales network, ensuring a widespread presence throughout the territory.

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10 ADVANTAGES OF WORKING WITH YOKIS

N°**1** SIMPLIFIED, EASIER TO INSTALL SYSTEMS

- Simplified wiring
- No connections back to the electric panel (500 range)
- Simple scheduling and configurations:
  - no tools required
  - no intervention required on electric panel
  - no computer or other interface required

N°**2** COMPATIBLE WITH ALL WIRING SYSTEMS FOR COMPLETE FREEDOM OF CHOICE

- Yokis modules can be installed in flush-mounted boxes (depth 40 or 50 mm) behind the pushbuttons of any wiring system.
- Yokis systems allow keeping the installed wiring system or upgrading to a more recent one, depending on customer preferences.
- Yokis modules can be controlled through pushbuttons or switches (where provided). For local control of window shutters modules and for centralisation (where provided) of all types of modules (light or shutter) it is possible to use double pushbuttons of interlocked type, where the 2 pushbuttons can be separately pressed but do not remain pressed, or of not interlocked type. 3-way switches (1-0-2) are not compatible.

N°**3** WIRED AND RADIO SOLUTIONS

- Choose wired or radio solutions according to system requirements.
- Yokis also offers combined receivers (MTR2000ER and MVR500ER) that can be controlled by a wired pushbutton and a radio transmitter.

N°**4** FLUSH-MOUNTED AND DIN RAIL-MOUNTED SOLUTIONS

- All products in the 500 and 2000 ranges are available both in the flush-mounted version and in the DIN rail-mounted version for electrical panel.

N°**5** MADE IN FRANCE - 5-YEAR WARRANTY

- All products are designed and manufactured in France.

N°**6** YOKIS DIGITAL MODULE PERFORMANCE

- All Yokis modules are electronic, and equipped with a next-generation microprocessor, ensuring powerful functionality and unique performance.
- This means they can easily adapt to any configuration.

With Yokis, a single item number is enough, as it features many different functions!

N°**7** SIMPLIFIED CENTRALISATION

- With pilot wire, all Yokis 500 W and 2000 W wired modules can be centralised, regardless of their function (toggle relay, dimmer, window shutter...). A single centralised control is all you need.
- Radio modules MTR2000ER and MVR500ER can also be centralised on pilot wire, and controlled via radio.
- Radio systems enable the easy creation of controls for every room or zone.

N°**8** A COMPLETE RADIO SOLUTION

- The range of Yokis radio solutions has evolved, and is now more functional and complete:
  - new receivers
  - new transmitters
- Complete control over home devices (lights, window shutters, blinds, gates...) both indoor and outdoor with networked receivers.

N°**9** DEDICATED TOOLS FOR PROFESSIONALS AND END USERS

- **Yokis Pro** the instrument designed and developed for Yokis installers. This instrument allows creating and managing your radio systems simply through your Android tablet.
- Transfer easily your system from Yokis Pro to Yokis Hub to offer your customer the possibility to control his/her home (lighting, shutters, sun blinds, driveway gate, automations...) also remotely, thanks to the connection of receivers and through a transmitter or the free app **Yn⏻**

N°**10** SERVICES

- **FOR PRE- AND AFTER SALES TECHNICAL ASSISTANCE, contact**

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Website: www.yokis.com

- Visit our website to find: our catalogues, system diagrams, product instruction manuals and other useful documentation.

"I would like to switch off all living room lights with a single touch".

"I would like all lights to switch off even when I forget about doing it".

The advantages

■ Timing operation option: automatic switching off from 2 seconds to 4 hours, with advance switch-off function available. Switch-off notification configurable by the installer (not available for MTR500).

■ Allow switch-off before scheduled time.

■ Toggle relays can be centralised and allow the creation of scenarios on several modules for a total switch on and off, through pilot wire for wired modules and through the Radio Bus only for radio modules.

■ Compatible with pushbuttons of all wiring systems.

■ Silent, even when installed behind the pushbuttons.

■ Compatible with existing wirings in which the pushbutton common is connected to neutral or phase (possible use in 3-wire or 4-wire mode), with interrupted, deviated or inverted phase, through replacement of the controls with simple pushbuttons.

■ Modular: Yokis allows extending the initial installation to later times.

■ They can be installed on the bottom of a flush-mounted box (depth 40 or 50 mm).

■ Digital coil with protection system in case pushbutton is pressed for a prolonged amount of time.

■ Increase light bulb replacement interval.

500 W WITHOUT NEUTRAL WIRE | ELECTRONIC TOGGLE RELAY AND TIMED RELAY

FUNCTION	MTR 500	MTT 500
Soft start / Soft stop	●	●
Pilot wire centralisation	●	●
TIMING FUNCTION		
Timer from 2 seconds to 4 hours		●
Possible unlimited duration		●
1-hour long duration		●
Warning with gradual switch-off		●
OTHER FUNCTIONS		
Configuration block		●

Models	Item number
MTR500E	5454050
MTR500M	5454060
Timed version	
MTT500E	5454054
MTT500M	5454064
Accessories	
CVI50	5454805

Good to know

> "Soft start/soft stop" function: protection of bulb filament, of retina and improved light perception by the user (Note: increased effectiveness with dimmable LEDs).
> Can be centralised through pilot wire by CVI50 accessory (item no. 5454805).
> Also works with pushbuttons equipped with light indicator by adding a single BV40 accessory (item no. 5454071), 1 every 20 pushbuttons (max 40 mA).
> Increases light bulb and pushbutton duration thanks to the "Soft Start" function.
> 100% waterproof for outdoor installation
> 100% silent thanks to its microprocessor-managed electronics.

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2000W WITH NEUTRAL WIRE | TOGGLE RELAY, OPTIONAL TIMED OPERATION

FUNCTION	MTR 2000
Pilot wire centralisation	●
TIMING FUNCTION	
Timer from 2 seconds to 4 hours	●
Possible unlimited duration	●
12-hour long duration	●
Switch-off notification	●
OTHER FUNCTIONS	
Configuration block	●
Daily scheduler	●

Models	Item number
MTR2000E	5454350
MTR2000M	5454360
Accessories	
R12M	5454073
D600V	5454072
ADBT	5454076

Good to know

> Thanks to its potential free contact, it can control any device up to 2000W (e.g. light, exhaust fan, irrigation...) requiring a dry contact.
> Silent, even when installed behind the pushbuttons (< 60db at a distance of 20 cm).
> Can be centralised with a single pilot wire, through accessory R12M.
> Optional timing operation.

⚠ **Does not work with pushbuttons equipped with light indicator. For this purpose, use MTM2000 in toggle relay mode configuration.**

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〰 2000W RADIO | MULTIFUNCTION TOGGLE RELAY

Version with external aerial

NEW

FUNCTION	MTR 2000 RADIO
Pilot wire centralisation	●
Radio bus centralisation	●
TIMING FUNCTION	
Timer from 2 seconds to 4 hours	●
Possible unlimited duration	●
12-hour long duration	●
Switch-off notification	●
OTHER FUNCTIONS	
Configuration block	●

Models	Item number
MTR2000ERP	5454462
MTR2000ERPX	5454463
MTR2000MRP	5454464
MTR2000MRPX	5454465
Accessories	
RAL60 (60 cm)	5454083
RAL2000 (200 cm)	5454084
SUP01	5454085

Radio features

Range: - Inside a single room < 100 sq. m, 250 m in free field without obstacles
Frequency: 2,4 GHz

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📝 Radio Installation Quick Guide > page 57

Good to know

> Optional timing operation.
> Thanks to its combined wired and radio operation, it can be controlled by a wired pushbutton and a radio transmitter simultaneously.
> Thanks to its potential free contact, it can control any device up to 2000W (e.g. light, exhaust fan, irrigation, gate, garage door, etc.) requiring a dry contact.
> The only module of the range that can operate on the contact in pulse mode (e.g. electric lock) and in monostable mode (e.g. bell) through programming on transmitters.
> Can be operated by pushbutton or switch.
> It can control another radio receiver, even to create centralised and group controls, becoming a battery-less transmitter.
> Silent, even when installed behind the pushbuttons (< 60db at a distance of 20 cm).
> Can be centralised with a single pilot wire, through accessory R12M or Radio Bus.
> Can be used as staircase light timer.

⚠ **Warning! It cannot be connected to pushbuttons equipped with light indicator.**

"*Even if a button gets stuck, the timer keeps working*".

"*I want to be warned before lights go off*".

The advantages

■ Timing operation option: automatic switching off from 2 seconds to 4 hours. Switch-off notification configurable by the installer. A double timer allows keeping the lights on for one hour, by pressing for 3 seconds. Configurable 12-hour long duration. Lights can be switched off before the timer runs out (configurable by the installer).

■ Compatible with pushbuttons of all wiring systems.

■ Silent, even when installed behind the pushbuttons.

■ Compatible with existing wirings in which the pushbutton common is connected to neutral or phase (possible use in 3-wire or 4-wire mode), with interrupted, deviated or inverted phase, through replacement of the controls with simple pushbuttons.

■ Modular: Yokis allows extending the initial installation to later times.

■ They can be installed on the bottom of a flush-mounted box (depth 40 or 50 mm).

■ Digital coil with protection system in case pushbutton is pressed for a prolonged amount of time.

■ Increase light bulb replacement interval.

500W WITH NEUTRAL WIRE | STAIRCASE LIGHTS TIMER

FUNCTION	MTM 500
Soft start / Soft stop	●
Pilot wire centralisation	●
TIMING FUNCTION	
Timer from 2 seconds to 4 hours	●
Possible unlimited duration	●
1-hour long duration	●
Switch-off notification	●
Warning with gradual switch-off	●
OTHER FUNCTIONS	
Configuration block	●

Models	Item number
MTM500E	5454051
MTM500M	5454061
Accessories	
BV40	5454071

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Good to know

> Progressive switch-off notification when the timer is about to go off.
> Also works with pushbuttons equipped with light indicator by adding a single BV40 accessory (item no. 5454071), 1 every 20 pushbuttons (max 40 mA).
> Can be centralised through pilot wire by CVI50 accessory (item no. 5454805).
> "Soft start / soft stop" function: protection of bulb filament, of retina and improved light perception by the user (Note: increased effectiveness with dimmable LEDs).
> 100% waterproof for outdoor installation.
> 100% silent thanks to its microprocessor-managed electronics.

2000W WITH NEUTRAL WIRE | STAIRCASE LIGHTS TIMER

TIMING FUNCTION	MTM 2000
Timer from 2 seconds to 4 hours	●
Possible unlimited	●
1-hour long duration	●
Switch-off notification	●
OTHER FUNCTIONS	
Anti-jam function	●
Configuration block	●

Models	Item number
MTM2000E	5454351
MTM2000M	5454361
Accessories	
R1500	5454074

Good to know

> Switch-off notification when the timer is about to go off.
> Also works with pushbuttons equipped with light indicator (without adding a BV40 accessory).
> The anti-jam option ensures that the light will be switched off even if a pushbutton gets jammed (by adding the R1500 accessory).
> Silent, even when installed behind the pushbuttons (< 60db at a distance of 20 cm).

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))) RADIO 2000W | TOGGLE RELAY MODULE CONFIGURED AS A TIMER

Version with external aerial

Version with external aerial

Version with external aerial

NEW

FUNCTION	MTR 2000 RADIO
Pilot wire centralisation	●
Radio bus centralisation	●
TIMING FUNCTION	
Timer from 2 seconds to 4 hours	●
Possible unlimited duration	●
12-hour long duration	●
Switch-off notification	●
OTHER FUNCTIONS	
Configuration block	●

Models	Item number
MTR2000ERP	5454462
MTR2000ERPX	5454463
MTR2000MRP	5454464
MTR2000MRPX	5454465
Accessories	
RAL60 (60 cm)	5454083
RAL2000 (200 cm)	5454084
SUP01	5454085

Radio features

Range: - Inside a single room < 100 sq. m, 250 m in free field without obstacles

Frequency: 2,4 GHz

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📝 **Radio Installation Quick Guide > page 57**

Good to know

> Can be configured in staircase lights timer mode: the timed relay can be turned into a timer with 27 short touches of the pushbutton.
> Silent, even when installed behind the pushbuttons (< 60db at a distance of 20 cm).
> Can be controlled by wired pushbutton and radio transmitter simultaneously.
> Can be centralised with a single pilot wire, through accessory R12M.
> It can control another radio receiver, becoming a battery-less transmitter.
> Thanks to its potential free contact, it can control any device requiring a dry contact.
> Thanks to its combined wired and radio operation, it can be controlled by a wired pushbutton and a radio transmitter simultaneously.
> It can be used as multifunction toggle relay.

⚠ **Warning! It cannot be connected to pushbuttons equipped with light indicator.**

DIMMERS AND TIMED DIMMERS
> Adjust the brightness of one or more lights

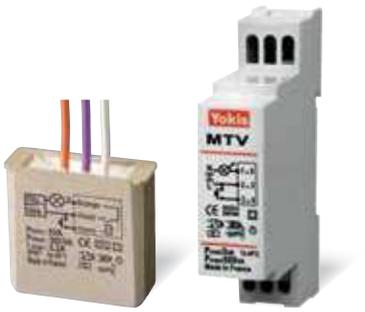*I'd like to be able to adjust the brightness of my new dimmable LED lights".*

I'd like to create a special atmosphere in the living room for my guests".

I don't want to replace my cover plates".

The advantages

■ Allow precise control of dimming, with possible light variation starting from only 3 W.

■ Consumption is reduced according to brightness variation.

■ Touch the pushbutton twice to restore 100% brightness.

■ Compatible with dimmable capacitive, resistive and inductive loads up to 500W.

■ Can be centralised: wired version through pilot wire by accessory CVI50 (item no. 5454805) and radio version through Radio Bus.

■ "Soft start / soft stop" function: filament and retina protection, improved light perception.

■ Allow changing light brightness, creating a progressive lighting that avoids glare, in particular during the night.

■ Compatible with pushbuttons of all wiring systems.

■ Silent, even when installed behind the pushbuttons.

■ Compatible with existing wirings in which the pushbutton common is connected to neutral or phase (possible use in 3-wire or 4-wire mode), with interrupted, deviated or inverted phase, through replacement of the controls with simple pushbuttons.

■ Modular: Yokis allows extending the initial installation to later times.

■ They can be installed on the bottom of a flush-mounted box (depth 40 or 50 mm).

■ Digital coil with protection system in case pushbutton is pressed for a prolonged amount of time.

■ Increase light bulb replacement interval.

500W WITHOUT NEUTRAL WIRE | DIMMER AND TIMED DIMMER

FUNCTION	MTV 500	MTVT 500
Soft start / Soft stop	●	●
Pilot wire centralisation	●	●
Consumption reduced based on light intensity	●	●
TIMING FUNCTION		
Timer from 2 seconds to 4 hours		●
Possible unlimited duration		●
1-hour long duration		●
Warning with gradual switch-off		●
DIMMER FUNCTION		
Variation	●	●
Last switch-on memory	●	●
Preset memory	●	●
Minimum brightness configuration	●	●
OTHER FUNCTIONS		
Configuration block	●	●

Models

Models	Item number
MTV500E	5454052
MTV500M	5454062
Timed version	
MTVT500E	5454055
MTVT500M	5454065
Accessories	
CHR3W	5454070

Good to know

> Also works with pushbuttons equipped with light indicator by adding a single BV40 accessory (item no. 5454071), 1 every 20 pushbuttons (max 40 mA).

> Possible use in 3-wire or 4-wire mode, without neutral wire, compatible with all commercially available wiring systems.

> Compatible with existing wiring: with pushbutton common to neutral or to phase.

> 100% waterproof for outdoor installation.

> Timing operation version (MTVT500) allow to set the automatic switching off from 2 seconds to 4 hours, with advance switch-off function available. Switch-off notification configurable by the installer. A double timer allows keeping the lights on for one hour (press for 3 seconds).

> Configurable 12-hour long duration. Lights can be switched off before the timer runs out (configurable by the installer).

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500W RADIO WITH NEUTRAL WIRE | DIMMER WITH OPTIONAL TIMED OPERATION

NEW

**WITH WIRED PUSH-BUTTON INPUT
+
CHILDREN'S ROOM NIGHT LIGHT FUNCTION**

FUNCTION	MTV 500ER
Soft start / Soft stop	●
Radio bus centralisation	●
Consumption reduced based on light intensity	●
TIMING FUNCTION	
Timer from 2 seconds to 4 hours	●
Possible unlimited duration	●
Warning with gradual switch-off	●
DIMMER FUNCTION	
Variation	●
Last switch-on memory	●
Preset memory	●
Minimum brightness configuration	●
OTHER FUNCTIONS	
Configuration block	●
Children's room night light	●

Models

Models	Item number
MTV500ER	5454454
Accessories	
CHR3W	5454070

Radio features

Range: - Inside a single room < 100 sq. m, 50 m in free field without obstacles
Frequency: 2,4 GHz

Good to know

> Allows controls without power limits thanks to Yokis Radio Bus.

> MTV500 line, thanks to its combined wired and radio operation, can be controlled by a wired pushbutton and a radio transmitter simultaneously.

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" I'd like to simulate my presence even when I'm out".

" My children are afraid of the dark. I'd like a night light in their room so that they can go to sleep more easily".

" I'd like to use lighting to create a special atmosphere in my house".

The advantages

- ■ Economical: consumption is reduced according to brightness variation. Helps you never forget the lights on again thanks to 2-hour timing already set (option that can be excluded or changed).

- ■ Can be installed on existing as well as new lighting circuits, regardless of the existing wiring.

- ■ More comfort and atmosphere: allows changing ambient light brightness.

- ■ Children's room night light function: settle young children down to sleep easily and walk around the house at night without switching the lights on.

- ■ Simulate your presence when you are not at home, with a random switching on and off of lights throughout the house.

- ■ 100% waterproof for outdoor installation.

- ■ Compatible with pushbuttons of all wiring systems.

- ■ Silent, even when installed behind the pushbuttons.

- ■ Compatible with existing wirings in which the pushbutton common is connected to neutral or phase (possible use in 3-wire or 4-wire mode), with interrupted, deviated or inverted, through replacement of the controls with simple pushbuttons.

- ■ Modular: Yokis allows extending the initial installation in later times

- ■ It can be installed on the bottom of a flush-mounted box (depth 40 or 50 mm).

- ■ Digital coil with protection system in case pushbutton is pressed for a prolonged amount of time.

- ■ Increases light bulb replacement interval.

500W WITHOUT NEUTRAL WIRE | SMART MULTIFUNCTIONAL DIMMER

Models	Item number
MTK500E	5454053
Accessories	
CHR3W	5454070

FUNCTION	MTK 500E
Soft start / Soft stop	●
Pilot wire centralisation	●
Consumption reduced based on light intensity	●
TIMING FUNCTION	
Timer from 2 seconds to 4 hours	●
Possible unlimited duration	●
12-hour long duration	●
Warning with gradual switch-off	●
DIMMER FUNCTION	
Variation	●
Preset memory	●
Minimum brightness configuration	●
OTHER FUNCTIONS	
Configuration block	●
Presence simulation	●
Children's room night light	●

Good to know

> Allows changing light brightness, creating a progressive lighting that avoids glare, in particular during the night.

> Also works with pushbuttons equipped with light indicator by adding a single BV40 accessory (item no. 5454071), 1 every 20 pushbuttons (max 40 mA).

> Digital coil with protection system in case pushbutton is pressed for a prolonged amount of time.

> Increases light bulb and pushbutton duration thanks to the "Soft Start" function.

> All modules of the 500 range can be centralised via pilot wire with accessory CVI50.

> With the MTK500E multifunctional dimmer, installation is scalable and can be carried out at your own pace and completed gradually.

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Functions useful every day

Light variation: comfort and atmosphere

- The lights can be switched on to a previously saved level of intensity or switched off, with one short touch of the pushbutton.
- The brightness can be increased or reduced with one long touch.
- For greater energy savings, it is possible to select 50% lighting with two short touches of the pushbutton.

Lights switch off automatically, if you forget about it

- Set lights to switch off automatically on a timer (configurable from 2 seconds to 4 hours) in areas such as corridors, toilets, bathrooms, or outdoors. When the timer runs out, a warning with gradual switch-off is given, one minute before complete switch-off.
- The lights can be kept on for over 12 hours whenever you need it (for example, during a barbecue night) with four short touches.
- The lights can be switched off at any time, by simply pressing the pushbutton once.

### Children's room night light

- It is possible to select 20% lighting and set it to gradually decrease during a 1-hour period to a night light (duration: 12 hours) with three short touches of the pushbutton.

Presence simulation

- Lights in the house randomly switch on and off for 4 hours every evening, for a more convincing presence simulation. When you return home, simply press the pushbutton again to stop the simulation. For further information, see page 35.
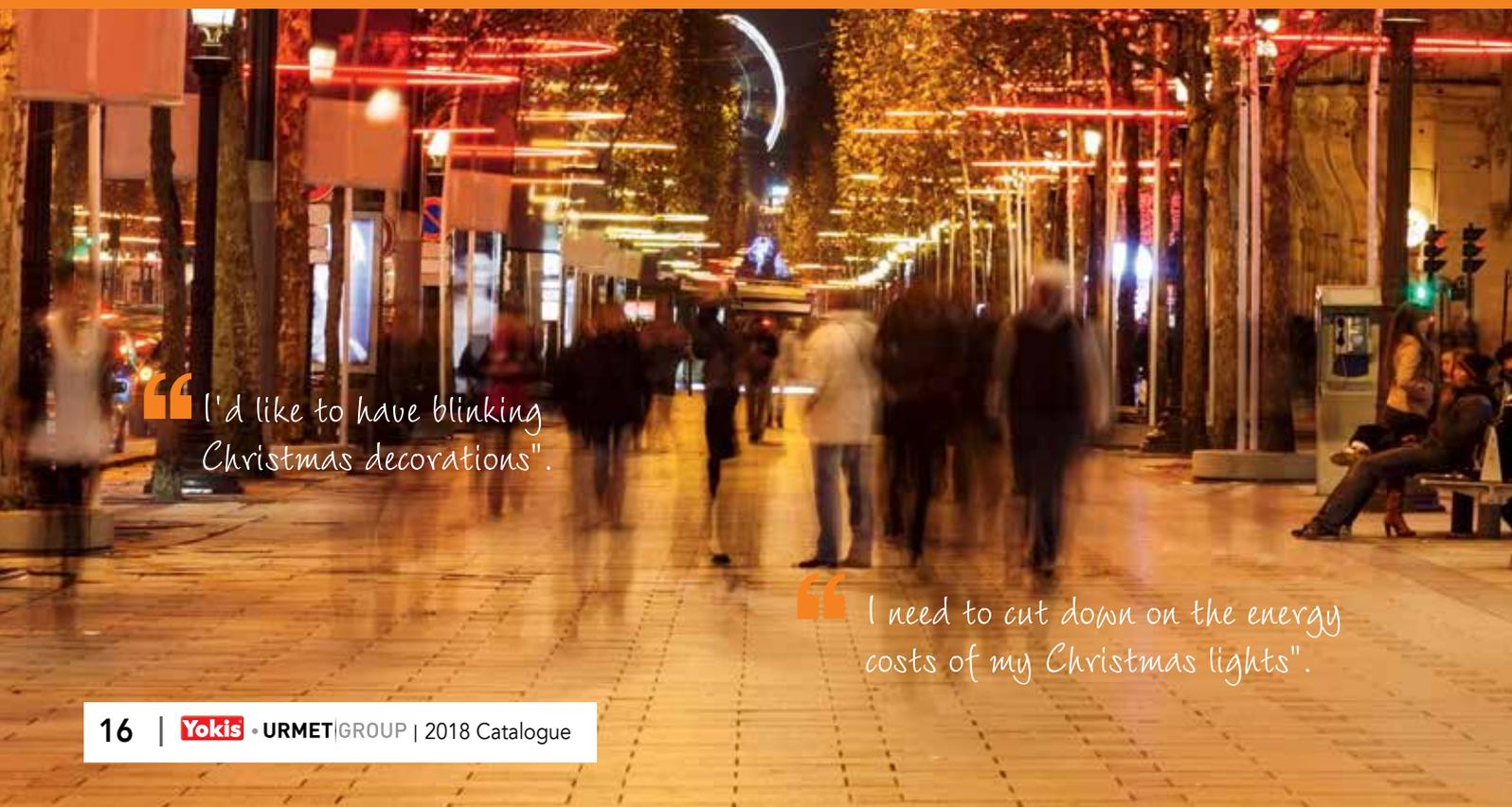
NIGHT SAVING
> **Switch off a few selected lights for a few hours every night**
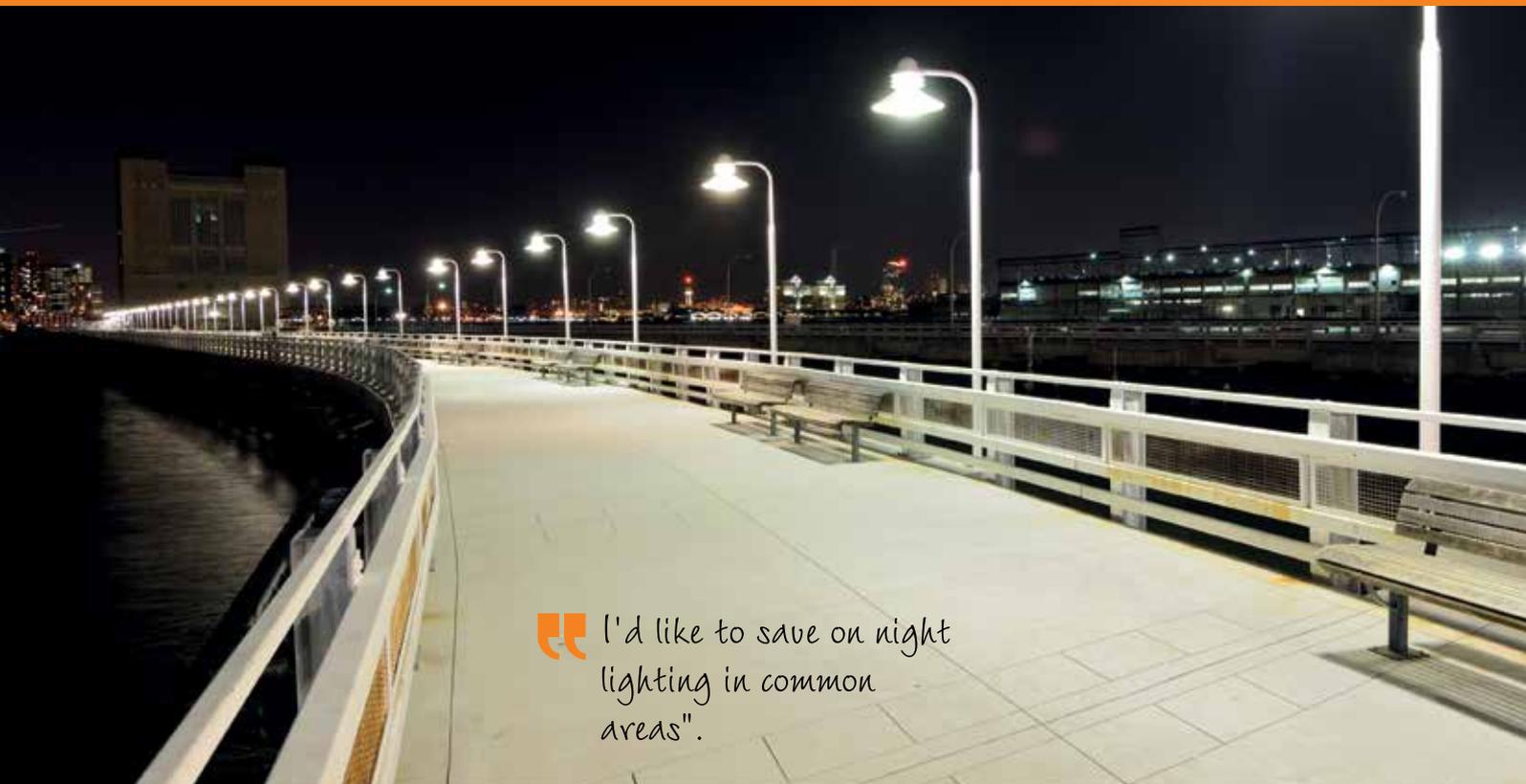
I'd like to save on night lighting in common areas".

FLASHING LIGHT
> **Set light blinking with configurable blinking frequency**

I'd like to have blinking Christmas decorations".

I need to cut down on the energy costs of my Christmas lights".

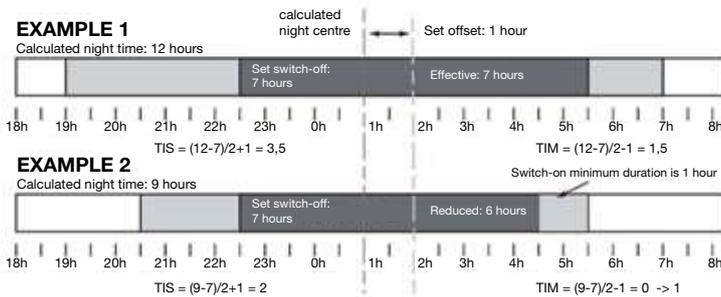## 2000W WITH NEUTRAL WIRE | NIGHT SAVING

Models	Item number
MEP2000E	5454356

Fields of application

■ Ideal for common areas inside blocks of flats, in residential areas, public areas where lights need to be switched on automatically at night and off in the morning (usually with a dusk sensor or an astronomical clock). MEP2000 guarantees significant energy savings and will pay for itself within one or two years.

■ Nowadays night lights often have a shared power supply line. To save on energy costs, some lights can now be switched off after a certain time.

Good to know

> Based on the consumption of lights, the investment is expected to pay off in 12 to 18 months: Just by turning the lights off for 5 hours each day on 250 W, the product will pay for itself in 1 year!

> Compatible with lights controlled by a dusk sensor or astronomical clock.

> Select which lights to turn off with complete flexibility.

> Increases light bulb replacement interval.

> Compatible with all load types up to 600 VA.

> Attracts less insects than ordinary lights.

> Pleasant night-time switching off for people living nearby.

Operating examples

EXAMPLE 1
Calculated night time: 12 hours

calculated night centre — Set offset: 1 hour

Set switch-off: 7 hours | Effective: 7 hours

18h 19h 20h 21h 22h 23h 0h 1h 2h 3h 4h 5h 6h 7h 8h

TIS = (12-7)/2+1 = 3,5   TIM = (12-7)/2-1 = 1,5

EXAMPLE 2
Calculated night time: 9 hours

Set switch-off: 7 hours | Reduced: 6 hours

Switch-on minimum duration is 1 hour

18h 19h 20h 21h 22h 23h 0h 1h 2h 3h 4h 5h 6h 7h 8h

TIS = (9-7)/2+1 = 2   TIM = (9-7)/2-1 = 0 -> 1

✎ System diagrams and technical information > page 41

♻ **Environment protection**

500W WITHOUT NEUTRAL WIRE | FLASHING LIGHT

FUNCTION	MTC 500E
Soft start / Soft stop	●
Pilot wire centralisation	●
OTHER FUNCTIONS	
Configuration block	●

Models	Item number
MTC500E	5454056

Fields of application

■ Public lighting (Christmas decorations, car parks, pedestrian zones, monuments)

■ Factories (critical applications)

■ etc.

Good to know

> Set light blinking with an interval from 0.2 to 25 seconds.

> A dry contact must connect the coil to phase to enable MTC500E blinking. When the contact is interrupted, the light stops blinking. Therefore, the product can be controlled with a timer or a simple switch.

✎ System diagrams and technical information > page 34

WINDOW SHUTTER MODULE
> Centralisation of window shutters, screens and blinds

I'd like to centralise the opening and closing of previously installed window shutters".

I want all window shutters in my house to open at 7 in the morning, except those in my kid's bedroom".

The advantages

- ■ Control all window shutters with a simple pilot wire and a double up/down pushbutton, not interlocked. The number of shutters that can be centralised is unlimited, which makes it ideal for large installations in office buildings.
- ■ Compatible with all shutter types and brands with 3-wire motor (SOMFY, APRIMATIC, BUBENDORFF, etc.)
- ■ Does not damage the window shutter or the motor in case of an obstacle thanks to the built-in torque control.
- ■ Possible recall of a pre-programmed intermediate position.
- ■ Built-in daily scheduling, multi-zone management, scenario management, remote control.
- ■ Pushbuttons of all wiring systems can be used.
- ■ Silent, even when behind the pushbuttons of the wiring system, with boxes having 50 mm depth.
- ■ Flexible and modular: installation of the various modules can be extended subsequently, in case of new needs.
- ■ Digital coil with protection system in case pushbutton is pressed for a prolonged amount of time.
- ■ 100% electronic microprocessor module.

500W WIRED | WINDOW SHUTTER MODULE

FUNCTION	MVR 500E
Pilot wire centralisation	●

OTHER FUNCTIONS	
Configuration block	●
Daily scheduler	●

Good to know

> Economical: The module is extremely cost-effective thanks to its high performance and ease of use. Moreover, the pilot wire is simply added when connecting the system, to the power supply.
> Convenient: removable terminal board.
> Can be centralised with a single pilot wire, through accessory R12M.

System diagrams and technical information > page 47

Models	Item number
MVR500E	5454090
Accessories	
R12M	5454073
D600V	5454072
CVI34	5454806

500W RADIO | WINDOW SHUTTER MODULE

Version with external aerial

NEW

Version with external aerial

FUNCTION	MVR 500 RADIO
Pilot wire centralisation	●
Radio bus centralisation	●

OTHER FUNCTIONS	
Configuration block	●
Daily scheduler	●

Good to know

> Daily scheduler.
> Window shutter intermediate position scheduling.
> Receivers can be connected to design centralised and group controls.
> Can be centralised with a single pilot wire, through accessory R12M or Radio Bus.

System diagrams and technical information > page 53

Radio Installation Quick Guide > page 57

Models	Item number
MVR500ERP	5454467
MVR500ERPX	5454468
MVR500MRP	5454469
MVR500MRPX	5454470
Accessories	
RAL60 (60 cm)	5454083
RAL200 (200 cm)	5454084
SUP01	5454085

Radio features
Range: - Inside a single room < 100 sq. m, 250 m in free field without obstacles
Frequency: 2,4 GHz

I just renovated my attic and fitted new wallpaper, I cannot drill holes in my wall".

I need a small remote control for each family member"

The advantages

- ■ A wide range of transmitters, from 1 to 8 pushbuttons, compatible with all Yokis receivers.

- ■ Each pushbutton can control up to 4 receivers in direct mode and an unlimited number of receivers in Radio Bus mode.

- ■ Each Yokis module can be controlled by an unlimited number of transmitters.

- ■ All control and centralisation configurations are carried out on transmitters.

- ■ Select which lights to turn off with complete flexibility.

- ■ Possibility to send commands to several Yokis radio receivers to design centralised and group controls.

- ■ Yokis radio modules allows two-way transmission. The transmitter flashes twice to inform that the command has been sent and received, thanks to the notification LED on transmitter.

- ■ Flexible: installation is scalable and can be completed gradually.

- ■ Range: Inside a single room, 250 metres in free field without obstacles. Range is reduced by metal items, walls or partitions.

- ■ Frequency: 2.4 GHz

- ■ CR2032 lithium battery has an average duration of 5 years.

FLUSH-MOUNTED TRANSMITTERS

Version with external aerial

Version with external aerial **NEW**

Models	Item number
E2BPP	5454413
E2BPPX	5454414
E4BPP	5454427
E4BPPX	5454428
Accessories	
RAL60 (60 cm)	5454083
RAL200 (200 cm)	5454084
SUP01	5454085

Radio Installation
Quick Guide > page 57

E2BPP(X): 2 independent channels.
E4BPP(X): 4 independent channels. **NEW**

- Can be wired behind the pushbuttons of any commercially available wiring system.
- With MTR2000ERP(X) OR MTR2000MRP(X) receiver, it can also be connected to switches.
- Also available with external aerial (E2BPPX and E4BPPX).

KEY RING TRANSMITTERS

Models	Item number
TLC4CP	5454425
TLC8CP	5454423
SUPPORT TLC	5454082

Radio Installation
Quick Guide > page 57

TLC4CP
- 4 independent pushbuttons

TLC8CP
- 8 independent pushbuttons

SUPPORT TLC
- Compatible with TLC4CP and TLC8CP

TABLE TRANSMITTERS

Models	Item number
GALET8TP	5454424
GALETBOISP	5454426

Radio Installation
Quick Guide > page 57

GALET8TP
- 8 independent pushbuttons
- Also available in wood finish

WALL-MOUNTED CONTROLS

Models	Item number
TLM1T45	5454417
TLM2T45	5454419
TLM4T45	5454421

Radio Installation
Quick Guide > page 57

WITH 1, 2 or 4 PUSHBUTTON
- Ideal for sliding doors and to integrate the system with new control points, with no masonry work required
- Products are supplied with support for round box (diam. 60 mm), square cover plate and pushbutton 45x45 mm

CONTROL AND COMMAND HUB

Yokis hub **NEW**

Models	Item number
YOKISHUB	5454495

YOKIS HUB
IP/radio hub that exploits Yokis Radio Bus, allowing the user to:
- Control system modules through Yokis user App Yno installed on smartphone and tablet, both at home and outside.
- Exploit centralisations and operation scenarios according to your daily needs.
- Configure or duplicate remote controls
- Change use parameters of system modules (timing, favourite dimming, favourite shutter/sun blind position, etc.)
- Create and manage access rights to allow third parties (babysitters, caregivers, guests...) to partially or fully manage the system

YOKIS RADIO USB INTERFACE

Yokey **NEW**

Models	Item number
YOKEY	5454491

YOKEY
- Antenna with USB interface that exploits Yokis Radio and, through Yokis Pro app, allows configuring and testing a Yokis radio or hybrid radio-wired system in an easy and automated way
- Yokis Pro app must be installed on Android tablet (4.2 version or later) and have an OTG type USB port available.

WIRED AND RADIO KITS
> Solution to meet installation requirements of any system

I want a solution for light and shutter centralisation by rapid means"

The advantages

■ Practical and cost-effective solutions allowing professionals to create light and shutter centralisations and to rapidly configure the systems.

■ Yokis kits are available in wired and radio version, for lights and shutters.

■ Each kit can be the installation base for a new system and can be expanded with other modules and transmitters to suit any installation need.

■ Kits are also useful to quickly solve a problem on a system, because they are always ready to be used.

■ Yokis Pro kit is the solution tailored for professionals, useful to make their work easier and faster.

WIRED KIT

Models	Item number
5-SHUTTER KIT	5454554

5-SHUTTER WIRED KIT
- Kit contents:
  5 MVR500E + 2 R12M (5 pcs package) + 1
  D600V (5 pcs package)

RADIO KITS

Models	Item number
KitradioVVP	5454521
KitradioVARVVP	5454523
KITRADIOVRP	5454524
5-SHUTTER RADIO POWER KIT	5454556

KitradioVVP
- Wireless two-way switch complete kit with
  two activation points and light control
  relays
- Kit contents:
  1 MTR2000ERP + 2 E2BPP

KitradioVARVVP
- Wireless complete kit for a dimmed light
  controlled from two points
- Kit contents:
  1 MTV500ER + 2 E2BPP + 1 CHR3W
  (5 pcs package)

KitradioVRP
- Kit contents:
  1 MVR500ERP + 1 TLM1T45

5-SHUTTER RADIO POWER KIT
- Kit contents:
  5 MVR500ERP + 1 TLC4CP + 1 TLC8CP +
  1 R12M (5 pcs package) + 1 REMOTE
  CONTROL SUPPORT (4 pcs package)

RADIO PROGRAMMING KIT FOR PROFESSIONALS

	Models	Item number
NEW	KITYPRO	5454497

KITYPRO
- Professional programming kit for
  configuration and validation of Yokis radio
  systems.
- An easy, efficient and complete tool
  for all your systems (layout, modules,
  transmitters, scenarios)
- Automatic creation and optimisation of
  Radio Bus
- System configuration directly from tablet
  with Yo key and Yokis Pro application
- Project saving and sharing with staff on
  Yokis Cloud with the utmost security
- It is composed of: Yo key USB key + 10"
  Android tablet

YOKEY

Yokis Pro App facilitates:

- Automatic detection of radio receivers (V5 and later versions)
- Configuration of radio receivers and transmitters through graphic interface thanks
  to YOKIS Pro application.
- System testing with check of single receiver operation through the application
- Automatic creation and optimisation of Radio Bus
- Creation of centralised and area controls and of operation scenarios
- Saving of data and system configurations, and subsequent creation of final report

"I want to turn on the lights on the ground floor when I get home".

"I'd like to add a control to close my window shutters and switch off the lights from the sofa effortlessly".

The advantages

■ Convenient and economical: no more energy waste! By pressing a single pushbutton, all lights and shutters in the house can be controlled.

■ Centralise lighting and window shutters with a single pilot wire connecting all installed modules.

■ Unlimited number of wired modules on pilot wire, allowing also complex installations.

■ With several pilot wires it is possible to create more complex centralisations using already installed modules.

■ Possibility to carry out multi-level centralisations to create separate areas (e.g. living area, bedroom area).

■ Combined receivers (radio and wired) can also be integrated in a centralised system by means of a pilot wire, while still being controlled by radio transmitters.

■ The local control can be sent from a single or a double pushbutton. Once a centralised control has been sent, any local control remains available.

■ The central control device allows controlling the modules of the 500 and 2000 ranges, even simultaneously.

MTR500
MTT500
MTM500
MTV500
MTVT500

MTR 2000

Models	Item number
MTR500E	5454050
MTR500M	5454060
MTT500E	5454054
MTT500M	5454064
MTM500E	5454051
MTM500M	5454061
MTV500E	5454052
MTV500M	5454062
MTVT500E	5454055
MTVT500M	5454065
MTR2000E	5454350
MTR2000M	5454360
Accessories	
D600V	5454072
R12M	5454073
CVI50	5454805
CVR12	5454807

Good to know

> Only the centralisation of the modules in the 500 range (toggle relay, timed relay, timer, dimmer and timed dimmer) also requires the installation of a CVI50.
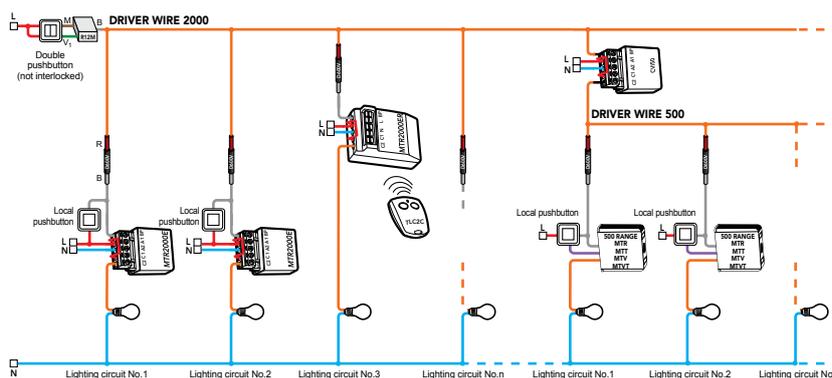
Models	Item number
MVR500E	5454090
Accessories	
R12M	5454073
D600V	5454072
CVI34	5454806

Good to know

> The number of shutters that can be centralised is unlimited, which makes it ideal for large installations in office buildings (universities and high schools) even in several buildings.

> The solution with pilot wire also allows the creation of the required number of intermediate areas: by group of rooms, by floor, by building, etc.

> The following accessories are required for centralisation:

 - D600V diode, to be wired to every module in order to prevent local controls from being sent through the pilot wire

 - the R12M interface to be used in case of not interlocked double pushbutton (an up button, a down button)
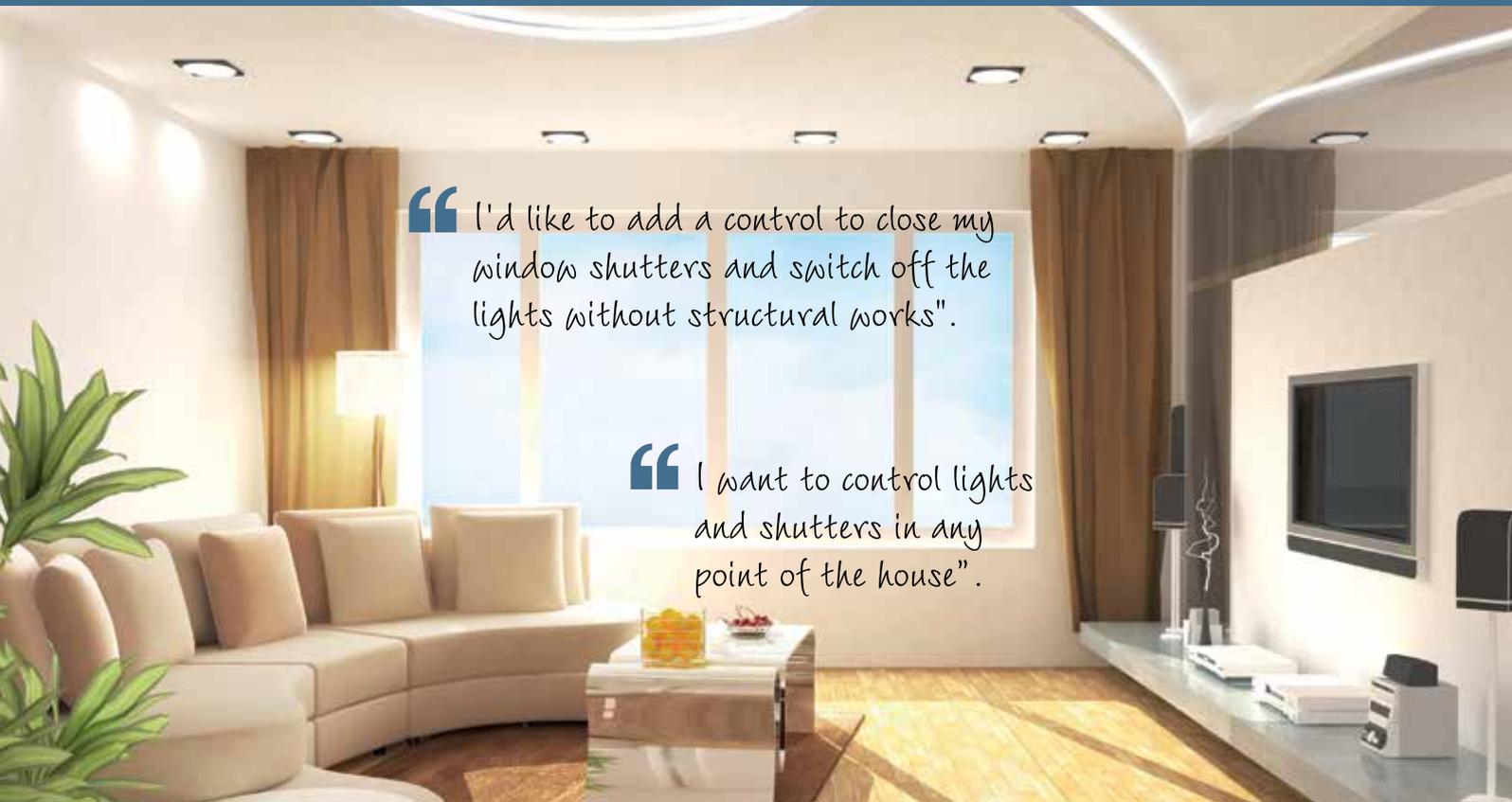
⚠ Please be aware that a group (area or general) control requires a double pushbutton (see diagrams on pages 38-39).
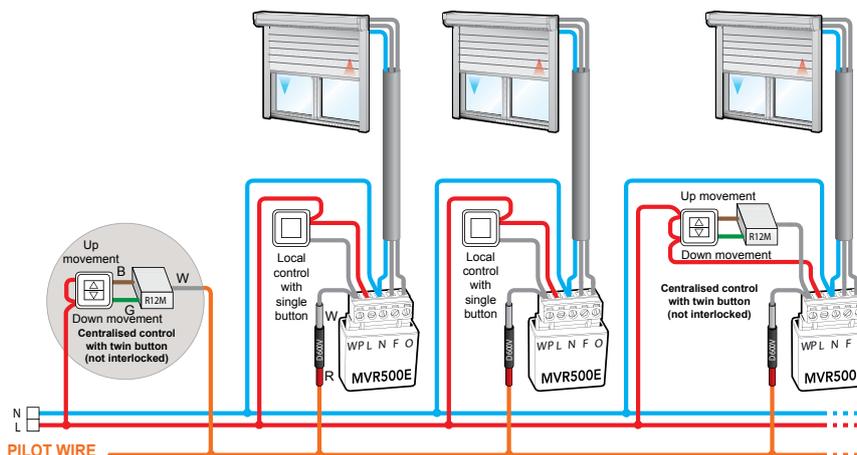
"I'd like to add a control to close my window shutters and switch off the lights without structural works".

"I want to control lights and shutters in any point of the house".

The advantages

- ◼ A single transmitter can control an unlimited number of radio micromodules (through 2.4GHz Radio Bus).

- ◼ Each receiver can be controlled by an unlimited number of transmitters, thus simplifying the introduction of new wall-mounted or portable radio controls.

- ◼ All transmitters can be configured to operate with single or centralised control.

- ◼ Thanks to the wide band of Yokis Radio Bus, it is possible to send several commands and information for centralisations and scenarios at the same time.

- ◼ A very fast transmission of information on Radio Bus allows having almost immediate response times. Therefore it is possible to simultaneously control several hundreds of radio micromodules.

- ◼ Based on a two-way system: each radio control provides for the relevant control reception feedback.

- ◼ Each Yokis radio module is addressed through a unique and protected identification code.

- ◼ Modules with external antenna are useful to increase the radio range, for instance in case of flush-mounted metal boxes that might reduce the range.

- ◼ Easier installation: Radio Bus configuration and check is even simpler thanks to Yokis Pro app tailored for professionals.

- ◼ More comfort for final user: thanks to Yokis Hub and YnO app, you can manage your systems from wherever you are, inside and outside of your house.

- ◼ Transmitter pushbuttons can be configured according to your needs: switch-on only, switch-off only and toggle.

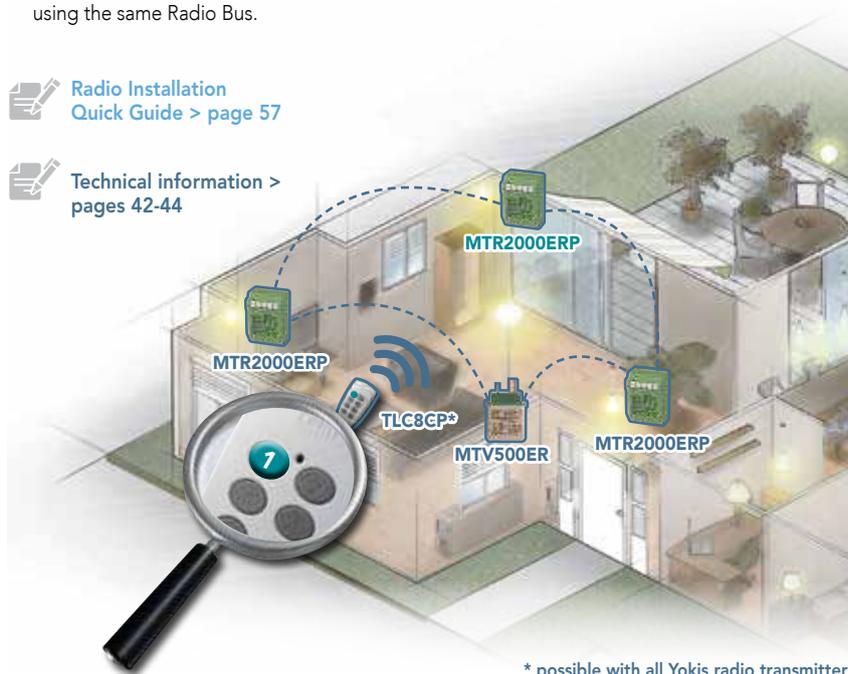- ◼ Increase the range of a transmitter with the Radio Bus to reach a distant receiver.

Good to know

> Transmitters can be duplicated without intervening on receiver modules.
> All transmitters have the same programming.
> Light controls can be transmitted through the window shutters modules, using the same Radio Bus.

Radio Installation
Quick Guide > page 57

Technical information >
pages 42-44

Models	Item number
MTR2000ERP	5454462
MTV500ER	5454454
MTR2000MRP	5454464

YOKIS RADIO TRANSMITTERS

MTR2000ERP
MTR2000ERP
TLC8CP*
MTV500ER
MTR2000ERP

* possible with all Yokis radio transmitters

Good to know

> All window shutter modules in the same room can be controlled with a single transmitter.
> Transmitters can be duplicated by copying the settings of the first one to the others, without operating on receiver modules.
> Window shutter controls can be transmitted through the lighting modules, using the same Radio Bus.

Radio Installation
Quick Guide > page 57

Technical information >
pages 53-54
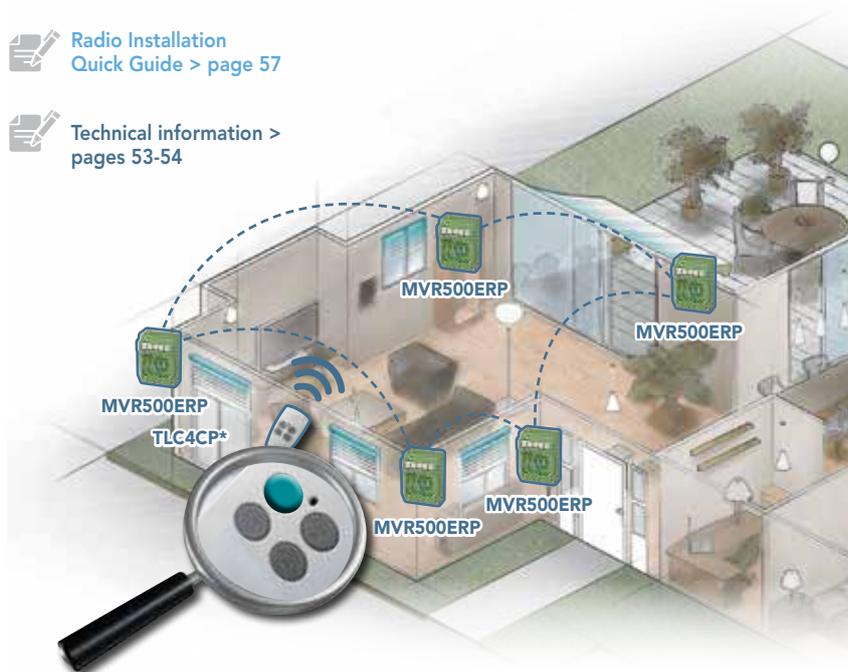
Models	Item number
MVR500ERP	5454467
MVR500MRP	5454469

YOKIS RADIO TRANSMITTERS

MVR500ERP
MVR500ERP
MVR500ERP
TLC4CP*
MVR500ERP
MVR500ERP

* possible with all Yokis radio transmitters

> **Systems from 2 to more than 1000 modules**: since every radio micromodule is able to receive and retransmit or extend the signal, the Radio Bus is provided with an unlimited extensibility through the addition of new receivers.

> **System scalability**: in order to meet the future needs of your customers, the system can be changed at any time by simply adding further micromodules.

> Interconnections of receivers that are part of the Radio Bus can compose any kind of network - linear, star o mixed - (see Radio Quick Installation Guide on page 57) able to meet all possible system configurations or circumvent the limits of the existing system.

> All Yokis transmitters can be configured and allow sending simple commands - grouped or centralised - through the Radio Bus to the whole system. Each transmitter is able to control lighting, window shutter both at the same time or to recall a scenario through **Yokis hub**.

> All products, receivers and transmitters (V5 and later versions) are optimised and automatically acknowledged by the system configuration application tailored for professionals.

> Receivers with V4 version, requiring a manual operation to be acknowledged by the application, are compatible as well.

Simple installation

> No specific hardware is required, all transmitters and receivers can be programmed through the keys or simply through **Yokis Pro** professional app and **Yo key** USB key.

> Integration of radio micromodules according to the system peculiarities.

> Micromodule configuration can be carried out directly on the system or in laboratory: transmitter data and receiver settings are saved also in case of no power supply.

Yokis advantages

■ **A HEALTHY HOME**
Yokis radio modules produce radiation 10,000 times weaker than that of a mobile phone.

Radio features

> Range: inside a single room, 250 metres in free field without obstacles.

> Frequency: 2.4 GHz

> Battery: CR2032 lithium

> Average duration of the battery: 5 years

> The battery can be replaced by opening the case with a flat-head screwdriver. All transmitter data will be saved.

Yokis Pro + **Yo** key

A simple, fast and very efficient professional tool!

A real solution for professionals, YOKIS Pro app and YOKEY USB key (item no. 5454491) make Yokis radio module installation even easier and faster, ensuring the creation of a perfect system based on Radio bus.

Yokis Pro app, in fact, automatically carries out module acknowledgement, Radio Bus creation and makes module programming, remote control programming and copy and creation of centralisations and scenarios immediate. It also transfers system configurations to Yokis Hub, saving a copy on Yokis Cloud, and generates the installation report in .pdf format to be delivered to the final user.

Draw the layout of your system in an easy and quick way, by tracing it on the tablet with your fingers

Launch the automatic acknowledgement of your modules and then position them on the layout

Configure your modules: a parameter diagram helps you not to forget the details

Ask Yokis Pro application to automatically create the Radio Bus that connects modules to one another

Add, set and duplicate control points, by following the guided procedure

Transfer system settings to Yokis Hub, print the installation report and deliver the system to your customer

Save and share the system on Yokis Cloud, for future operations or expansion

YOKEY
Item n.
5454491

Yokis Pro makes it easier to:
- create, edit and save Yokis systems on tablet or Yokis Cloud
- update and widen existing installations
- share the systems in a secure manner with your staff
- save time by duplicating with one click an already built system
- test the operation of systems (with or without Yokis Hub) and create an installation report for your customers
- programme both easier and more complex systems.

FOR PROFESSIONALS

	Yokis Pro	Yokis Pro + Yokis hub	Yokis Pro + Yokis hub + Yokis Cloud
Creating and configuring a system	✔	✔	✔
Automatic detection of radio receivers (V5 and later versions)	✔	✔	✔
Configuration of receivers and transmitters through the application	✔	✔	✔
Test of single receivers through the application	✔	✔	✔
Automatic creation and optimisation of Radio Bus	✔	✔	✔
Creation of centralised and area controls	✔	✔	✔
System saving	✔ (on tablet)	✔ (tablet + Yokis Hub)	✔ (tablet + Yokis Hub + Yokis Cloud)
Creation of a complete and printable final report	✔ (through Yokis Cloud)	✔ (through Yokis Cloud)	✔
Secure sharing of systems with my staff	✔ (through Yokis Cloud)	✔ (through Yokis Cloud)	✔
Automatic test of whole final system		✔	✔
Creation of complete scenarios		✔	✔

FOR END USERS
> To manage your system from mobile devices

Yokis hub + YnO

Yokis Hub and YnO app are designed to allow the final user controlling system Yokis modules through tablet or smartphone from wherever you are, inside and outside of your house. It provides the user with an easy tool to control and monitor his/her house in a convenient manner.

YnO app allows the user creating automatic operation scenarios, starting from preset basic scenarios, that meet the daily needs.

Radio Bus and YnO app to control any space

All Yokis radio receiver micromodules communicate to one another thanks to Yokis Radio Bus, that allows creating reliable and extended connections among the modules that compose the system, in order to meet the various installation requirements.

Radio Bus technology allows sending simple commands, also to complex systems (linear, star or mixed), with a sure outcome, thanks to control two-way technology: the control key on YnO app changes its status only if the command has been carried out.

In addition to the ease of use, the customer has the guarantee that the system is created with modular and scalable characteristics, allowing the addition of new micromodules and functions, to meet the future needs of the user.

Yokis hub: enhance your system and its control on site or remotely

YnO app is easy to use and customisable: the user can arrange the controls by grouping them as he/she wishes by type, room and scenario and associate the images of the house to the rooms to have an immediate reference.

It also allows the user to create new accounts for guests (nanny, caregiver, friends, etc.) with restrictions on the rights of use and/or the enabling period, allowing the activation of all or several controls.

FOR THE USER	Yokis hub	Yokis hub + Yn	Yn + Yokis hub + Yokis Cloud
		with or without Internet connection	with Internet connection
Recall of a pre-installed scenario on Yokis Hub: automatically from a Yokis transmitter or an Urmet monitor	✔	✔	✔
Creation, change of scenarios		✔	✔
Configuration and duplication of remote controls		✔	✔
Local control of the system from a smartphone or tablet with status feedback		✔	✔
Remote control of the ambient directly on smartphone or tablet with status feedback			✔
Creation of guest accounts with management of system access rights			✔
Synchronised saving on Yokis Cloud			✔
Automatic update of proposed scenarios			✔
Temporary sharing of Yokis Hub data for system maintenance/enhancing			✔

Yokis hub + Yn + Yokis Cloud

Three tools that allow the user to control his/her home from smartphone and tablet with many advantages:

- **Creation of default or new scenarios** that can be recalled from smartphone/ tablet or Urmet video door phone.

- **Creation of guest accounts** (babysitter, cleaning lady, etc.)**:** limited/partial access and management of the system.

- **Application** customisation.

- **A scalable system:** new micromodules can be added at any time (to use the new functions inside the room).

Lighting	Window shutters	Brightness adjustment	Automations control	Creation of scenarios	Addition of remote controls

After uploading Yokis Pro configuration on Yokis Hub, the user can control his/her system through smartphone and tablet using Yn app.

TECHNICAL MANUAL

- Technical features • Functional features
- Main functions • Configuration table • System diagrams

TABLE OF CONTENTS

500 W MODULES WITHOUT NEUTRAL WIRE

☑ Compatible loads > page 44 - 71

⬇ TECHNICAL FEATURES

Network voltage	230 V~ (+10% -15%) - 50 Hz
Power	min max 5 VA 500 VA
	(300 VA for sealed box)
Current intensity	max 500 VA 2 A
Ambient temp.	- 20 °C + 40 °C
Relative humidity	from 0 to 90%
Dimensions (mm)	

35
37
17,5
62
12
87

(lung. fili 110 mm, sez. 1 mm²)
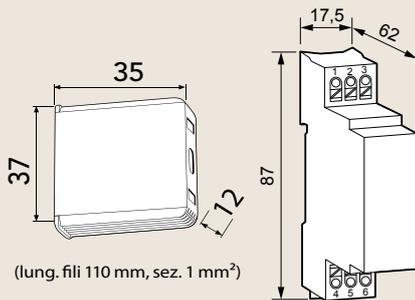
⬇ FUNCTIONAL FEATURES

100% waterproof for outdoor installation.

Can be controlled by 12 or 48 VAC or DC with ADBT accessory.

Double overload protection with power cut-off.

Electronic overheating protection.

Inrush current limitation through filament pre-heating.

Immune to mains disturbances up to 1.5 kV.

Built-in electronic protection in case of short circuit on the load, with automatic reset after the fault is eliminated.

Digital coil with protection system in case pushbutton is operated for a prolonged amount of time.

Increases light bulb and switch duration.

Variation principle through cut-off at phase start or phase end with automatic load type recognition.

Compatible with pushbuttons equipped with light indicator (max. 20) by wiring a single BV40 accessory (item no. 5454071) to be installed as close as possible to the module.

⬇ ITEM NUMBER TABLE

FLUSH-MOUNTED 500 RANGE	Model	Item number	P.
Toggle relay	MTR500E	5454050	9
Timed relay	MTT500E	5454054	9
Flashing light	MTC500E	5454056	17
Dimmer	MTV500E	5454052	13
Timed dimmer	MTVT500E	5454055	13
Staircase lights timer	MTM500E	5454051	11
Smart multifunctional dimmer	MTK500E	5454053	15
500 RANGE ON DIN RAIL			
Toggle relay	MTR500M	5454060	9
Timed relay	MTT500M	5454064	9
Dimmer	MTV500M	5454062	13
Timed dimmer	MTVT500M	5454065	13
Staircase lights timer	MTM500M	5454061	11

⬇ MORE...

CE   MADE IN EU   5-year warranty

⬇ USE

Each module of the 500 range can be used as a toggle relay, dimmer, staircase lighting timer or for timing purposes with one or more pushbuttons.

> Installation
The module can be installed in 503, 504 and 506 flush-mounted boxes or round boxes having 60 mm diameter.
In all cases, the pushbutton must not apply mechanical stress on the module and the depth of the box must be sufficient to ensure at least 1 mm clearance around the module. It can also be installed in junction boxes, with a volume of at least 100 cu. cm for each module.

- **Power 500 VA 2.2 A:** in regular installations boxes are always connected with corrugated conduits that allow air passage and guarantee a sufficient ventilation to achieve a power of 500 VA. Open air installation allows full-power use.
- **300 VA 1.3 A power:** with sealed boxes that do not allow air passage, the maximum allowed power is 300 VA.

> Wiring
The module is connected in series to the circuit. It can be wired to phase or neutral. The module allows connection of pushbuttons with common to phase or neutral. See the corresponding figures: in case of pushbutton common to neutral, invert purple and orange wires (on DIN rail models, connections to terminals "5" and "6"). The module accepts an unlimited number of pushbuttons with a maximum distance of 50 m between module and pushbuttons.

⚠ **WARNING! DO NOT install this module with inductive loads (e.g., ferromagnetic ballasts or window shutters, ferromagnetic transformers) on the same circuit without the accessory FDVDT (Item no. 5454075).**
The accessory must be connected as close as possible to the module's power supply, in parallel between phase and neutral. Without this accessory, the module's overload protection would quickly deteriorate.

⬇ MAIN FUNCTIONS

> Toggle relay / timed relay
Switching on, switching off or timing a lighting circuit

- "Soft start / soft stop" function
- Switches off the lights in case you forget about it.
- Timer from 2 seconds to 4 hours.
- Progressive switch-off notification when the timer is about to go off. This function can be cancelled.
- Double timing available:
one 3-second touch of the pushbutton activates the lights for one hour.

> Dimmer / Timed dimmer
Adjust the intensity of a lighting circuit with one or more pushbuttons

- Switches off the lights in case you forget about it.
- Timer from 2 seconds to 4 hours.
- Double timing available:
one 3-second touch of the pushbutton activates the lights for one hour.
- "Soft start / soft stop" function

> Staircase lights timer
Staircase lighting or lighting circuit timing

- Timer from 2 seconds to 4 hours.
- Double timing available: one 3-second touch of the pushbutton activates the lights for one hour.
- "Soft start / soft stop" function

> MTC500E Flashing light
Set the light in a lighting circuit to blinking mode with a configurable blinking interval

- Set the light in a lighting circuit to blinking mode with a blinking interval from 0.2 to 25 seconds

> MTK500E smart multifunctional dimmer
Toggle relay, dimmer and timer, with two additional functions:
- **Children's room night light**
- **Presence simulator**

⚠ Before setting any configuration, unlock the module with **23 short presses** on a pushbutton connected to BP terminal . The module will lock automatically after 6 hours or with 21 presses.

CONFIGURATION PRINCIPLE: * **SHORT CONSECUTIVE TOUCHES** of the pushbutton (maximum interval of 0.8 s)
** **CONFIRMATION REPLY** with blinking after touches.

Touches*	Duration	Replies**		Touches*	Functions	Replies**	
11	2 minutes	1	blink	21	Configuration lock	1	blink
12	4 minutes	2	blinks	23	Configuration release	3	blinks
13	8 minutes	3	blinks	24	ON / OFF Notification	4	blinks
14	15 minutes	4	blinks	25	Duration in seconds	5	blinks
15	30 minutes	5	blinks	26	Duration in minutes	6	blinks
16	60 minutes (one hour)	6	blinks	27	Minimum brightness adjustment	7	blinks
17	120 minutes (2 hours)	7	blinks				
18	240 minutes (4 hours)	8	blinks	28	Minimum brightness reset	8	blinks
19	unlimited	9	blinks				

Configuration in seconds

All durations set in minutes can be changed into seconds with **25 short** touches (reply: 5 blinks). **It is possible to switch back to minutes with 26 short** touches (reply: 6 blinks).

Example:
Configuration of a 15-second duration:

1 - 25 touches (reply: 5 blinks)
     to select duration in seconds.

2 - 14 touches (reply: 4 blinks)
     to set a 15-second duration.

> **Presence simulator:**

A 4-hour daily scheduler function is available. During this time, the module switches the lights on at 50% brightness for thirty minutes every hour. The thirty minute period is selected randomly.
The scheduled 4-hour period can be started with **6 short touches** of the pushbutton. The scheduled 4-hour period is activated every day at the same time. During a scheduled presence simulator period, press the pushbutton once to interrupt the simulation.

Delayed start: **7 touches** to delay **simulation start by 4 hours** (reply: 1 flash)
                              (Example: 7 touches at 4 pm -> simulation start at 8 pm)

8 touches to delay **simulation start by 8 hours** (reply: 2 blinks**)**
                              (Example: 8 touches at 12 am -> simulation start at 8 pm)

9 touches to delay **simulation start by 12 hours** (reply: 3 blinks)
                              (Example: 9 touches at 8 am -> simulation start at 8 pm)

10 touches to delay **simulation start by 16 hours** (reply: 4 blinks)
                              (Example: 10 touches at 4 am -> simulation start at 8 pm)

> **Children's room night light:**

The children's room night light can be switched on with 3 short touches of the pushbutton The lights are switched on at **20% brightness and are dimmed gradually for one hour** until leaving a **courtesy night light on (for 12 hours).**
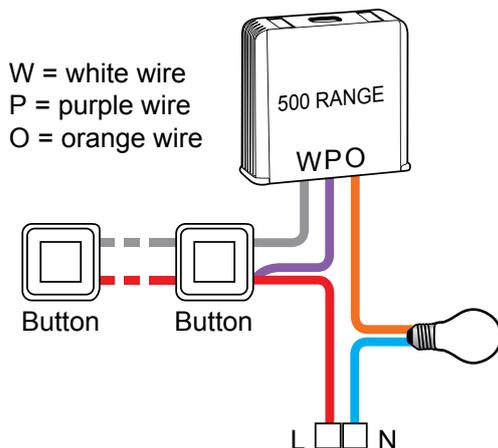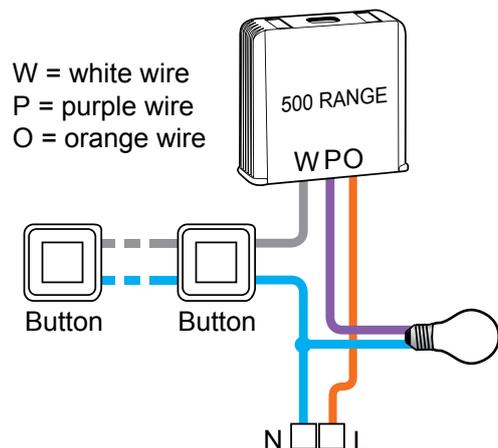
IMPORTANT

500 range modules without neutral wire

> Can be controlled only by pushbuttons
> Cannot control fluorescent lamps
> In sealed boxes, power is limited to 300 VA
> Do not use on controlled sockets
> Can be centralised with pilot wire, using CVI50 and D600V accessories

⌐ SYSTEM DIAGRAMS

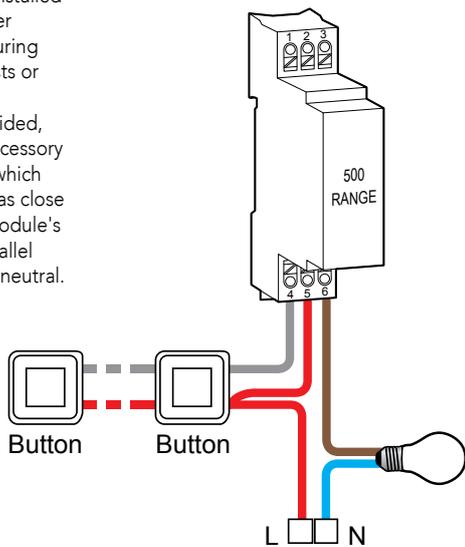| SD542-0001	WIRING WITH PUSHBUTTON COMMON TO PHASE

SD542-0002	WIRING WITH PUSHBUTTON COMMON TO NEUTRAL

W = white wire
P = purple wire
O = orange wire

500 RANGE
W P O

Button   Button

L   N

W = white wire
P = purple wire
O = orange wire

500 RANGE
W P O

Button   Button

N   L

The automatic power supply switch on the line where the module will be installed must not power other lighting circuits featuring ferromagnetic ballasts or transformers.
If this cannot be avoided, install the FDVDT accessory (Item no. 5454075), which must be connected as close as possible to the module's power supply, in parallel between phase and neutral.

The automatic power supply switch on the line where the module will be installed must not power other lighting circuits featuring ferromagnetic ballasts or transformers.
If this cannot be avoided, install the FDVDT accessory (Item no. 5454075), which must be connected as close as possible to the module's power supply, in parallel between phase and neutral.
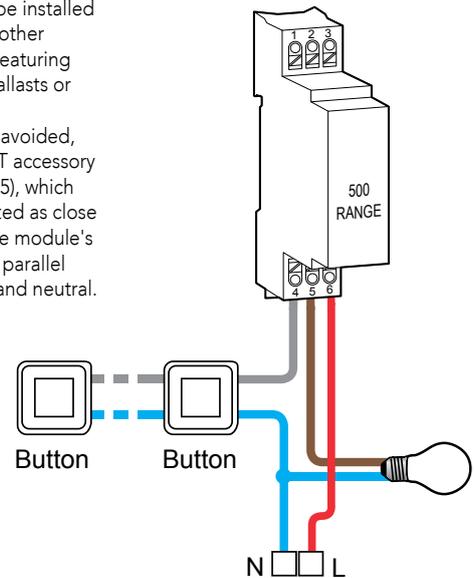
SD542-0005   SWITCHED POWER INCREASE

In some cases, a power over 500 W is required on a circuit.
To increase power, simply split the power circuit to obtain an individual "lamp return" circuit for each module.
This allows connecting in parallel up to 10 modules (the digital coil remains synchronised).
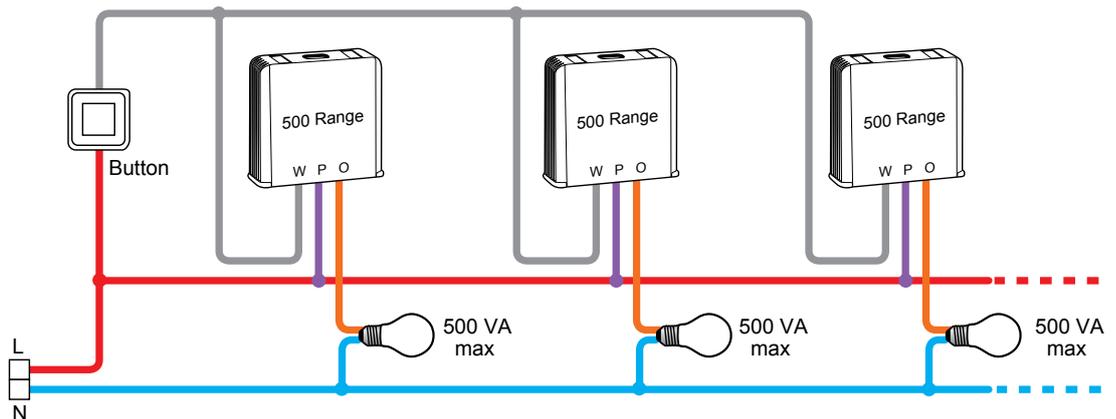
SD542-0006   WIRING WITH ENERGY-SAVING LIGHT BULBS AND CHR3W

> **COMPACT FLUORESCENT LAMPS (CFL) AND LED LAMPS:
 make sure they are dimmable**
  This feature is indicated on the packaging.

> The dimmer function is not guaranteed with these types of load.

Always carry out an operation test to verify compatibility.
For best results, **add the CHR3W accessory** in parallel with the lamp.

> **The RADIO version of the dimmer (MTV500ER) controls
  compact fluorescent lamps and dimmable LEDs without CHR3W**
 (see pages 44/46).

W = white wire
P = purple wire
O = orange wire
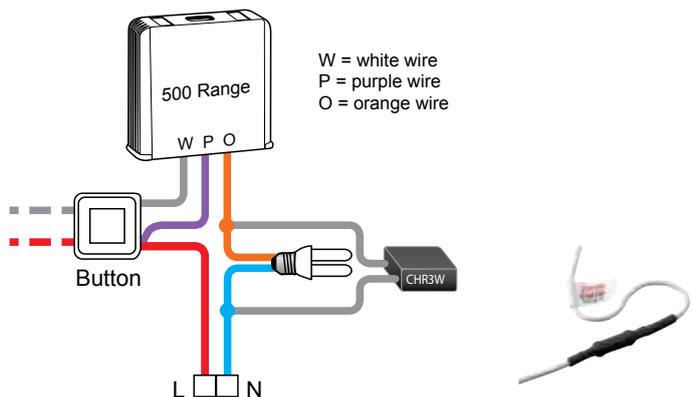
Accessories	Item number
CHR3W	5454070

WIRING OF PUSHBUTTONS WITH LIGHT INDICATOR

> The modules are compatible with pushbuttons equipped with light indicator (up to approx. 20 pushbuttons) with the addition of one BV40 accessory (5454071). The orange wire of the BV40 module must be connected to the orange wire of the module (O) and the white wire to white wire (B). For DIN rail versions, connect BV40 between the terminals no. "4" and "6".
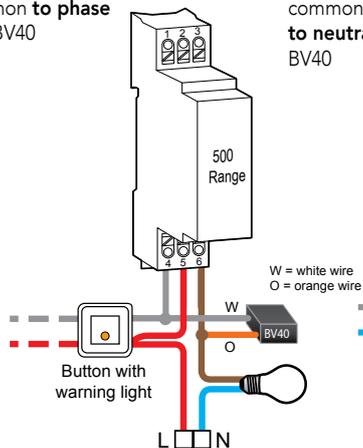
BV40 Accessory features: 40mA MAX
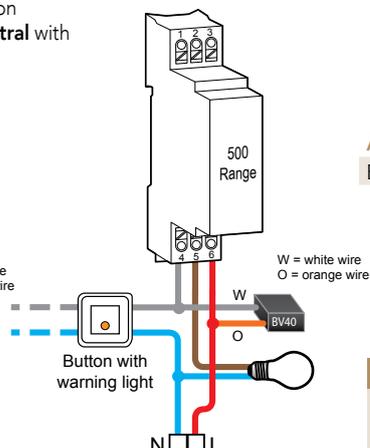
FLUSH-MOUNTED VERSION INSTALLED BEHIND A PUSHBUTTON
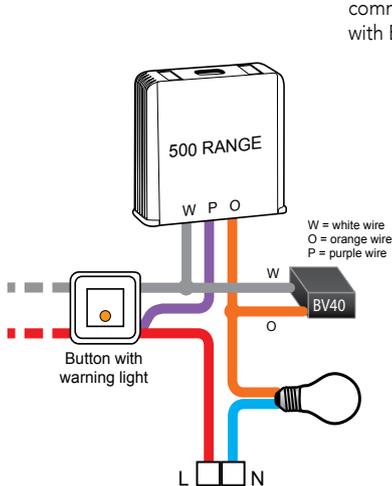
DIN RAIL-MOUNTED VERSION FOR ELECTRICAL PANEL

Wiring with pushbutton common **to phase** with BV40

Wiring with pushbutton common **to neutral** with BV40

W = white wire
O = orange wire
P = purple wire

W = white wire
O = orange wire

W = white wire
O = orange wire

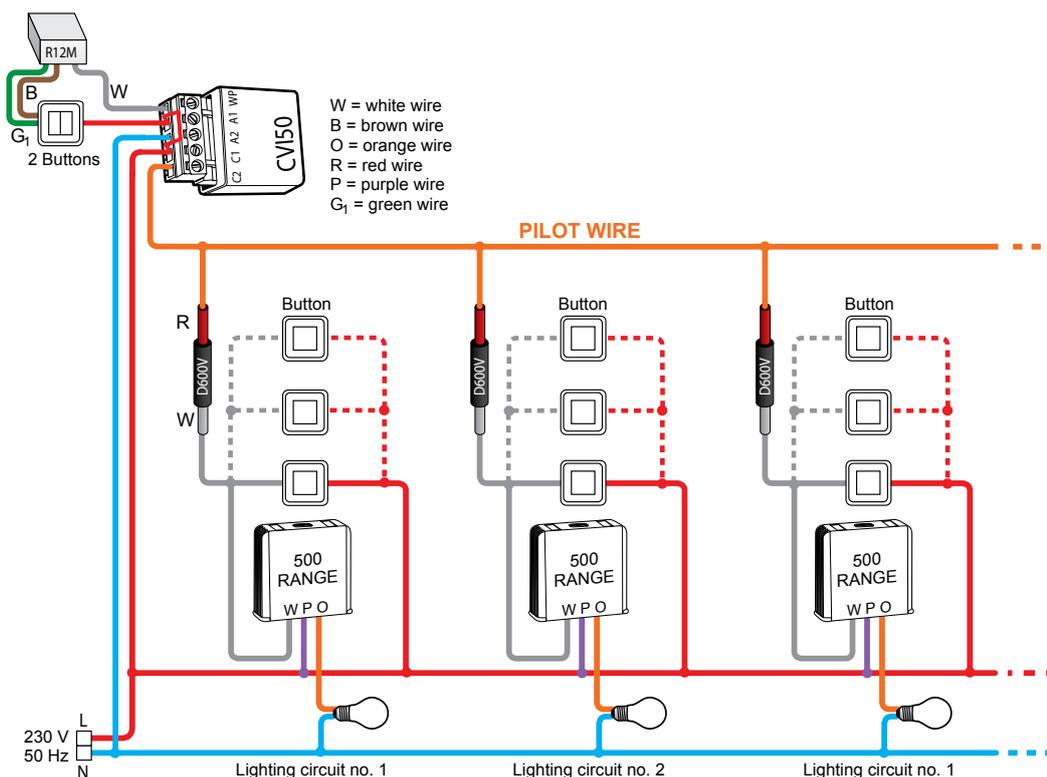| Accessory	Item number
BV40	5454071

IMPORTANT

> The presence of pushbuttons with light indicator requires installation of the BV40 accessory.

500 RANGE CENTRALISATION

> All modules of the 500 range can be centralised via pilot wire with CVI50 and D600V accessories.
> The D600V accessory (5454072) allows connecting all local pushbuttons to a single pilot wire.
> Two centralised pushbuttons (or one double pushbutton) control this pilot wire and allow switching all modules on and off.
> The two pushbuttons must be wired with R12M (5454073) and CVI50 (5454805) accessories.

CENTRALISED CONTROL WITH DOUBLE PUSHBUTTON WITH CVI50

Accessories	Item number
CVI50	5454805
R12M	5454073
D600V	5454072

W = white wire
B = brown wire
O = orange wire
R = red wire
P = purple wire
G₁ = green wire

PILOT WIRE

Lighting circuit no. 1   Lighting circuit no. 2   Lighting circuit no. 1

230 V 50 Hz

2000 W MODULES WITH NEUTRAL WIRE

☑ Compatible loads > page 44 - 71

↓ TECHNICAL FEATURES

Network voltage	230 V~ (+10% -15%) - 50 Hz
Power	on resistive load 10 A, 2000W
	other loads view table on p.44 DS1054-022
Consumption	< 1W
Ambient temp.	- 20 °C + 40 °C
Sound level	< 60 dB at 20 cm
Dimensions (mm)	

17,5   62
32
48
87
20

↓ FUNCTIONAL FEATURES

Low-voltage control, 12 to 48 V AC or DC with ADBT accessory.

Digital coil with protection system in case pushbutton is pressed for a prolonged amount of time.

Immune to mains disturbances up to 1.5 kV.

MTR2000E/M
Not compatible with pushbuttons equipped with light indicator:
use MTM2000E/M configured as a relay.

MTM2000E/M
Compatible with pushbuttons equipped with light indicator (max 20).

Electronic overheating protection.

MTR2000E/M can be centralised with pilot wire.

Potential free contact 10 A 250 V~.

↓ ITEM NUMBER TABLE

FLUSH-MOUNTED 2000 RANGE

	Model	Item number	P.
Toggle relay	**MTR2000E**	5454350	9
Staircase lights timer	**MTM2000E**	5454351	11
2000 RANGE ON DIN RAIL			
Toggle relay	**MTR2000M**	5454360	9
Staircase lights timer	**MTM2000M**	5454361	11

↓ MORE...

CE   MADE IN EU   **5-year warranty**

↓ MAIN FUNCTIONS

Toggle relay with optional timed operation
Switching on, switching off or timing a lighting circuit

- Timer from 2 seconds to 4 hours.
  (with switch-off notification configurable by the user)
- The circuit can be switched off before scheduled time.
- Press the pushbutton for over 3 seconds to enable a 12-hour long duration (can be enabled by the user).

IMPORTANT

> Does not work with pushbuttons equipped with light indicator: use MTM2000, configured as a toggle relay. ⚠

Staircase lighting or lighting circuit timing

- Anti-jam option with the R1500 accessory ensures that the lights will be switched off even if a pushbutton gets jammed.
- Timer from 2 seconds to 4 hours (with switch-off notification configurable by the user).
  Default setting: 2 minutes.
- Switch-off notification: one minute before the scheduled time, the user is warned that the lights are going to be switched off with a quick blinking (default setting: disabled)
- Press the pushbutton for over 3 seconds to enable a 12-hour long duration. Press the pushbutton again for 3 seconds to cancel the 12-hour long duration (can be enabled by the user)

IMPORTANT

> After wiring the R1500 accessory, remember to configure the timer (see instruction manual). ⚠

↓ CONFIGURATION TABLE

⚠ Before setting any configuration, unlock the module with **23 short** presses on a pushbutton connected to BP terminal. The module will lock automatically after 6 hours or with 21 presses.

CONFIGURATION PRINCIPLE: * SHORT CONSECUTIVE TOUCHES of the pushbutton (maximum interval 0.8 s)
** CONFIRMATION REPLY with blinking or relay sound after touches.

Touches*	Duration	Replies**	
11	**2 minutes**	1	blink
12	**4 minutes**	2	blinks
13	**8 minutes**	3	blinks
14	**15 minutes**	4	blinks
15	**30 minutes**	5	blinks
16	**60 minutes (one hour)**	6	blinks
17	**120 minutes (2 hours)**	7	blinks
18	**240 minutes (4 hours)**	8	blinks
19	**unlimited**	9	blinks

Touches*	MTR/MTM Functions	Replies**	
21	**Configuration lock**	1	blink
22	**Daily Sched./ --**	2	blinks
23	**Configuration release**	3	blinks
24	**Notification**	4	blinks
25	**Duration in seconds**	5	blinks
26	**Duration in minutes**	6	blinks
27	**-- / Relay or Timer**	7	blinks
28	**Status memory / --**	8	blinks
29	**Long duration**	9	blinks
30	**Reset to default values**	10	blinks

Settings in seconds

All durations set in minutes can be changed into seconds with 25 short touches (reply: 5 blinks).
**It is possible to switch back to minutes with 26 short touches** (reply: 6 blinks).

Example:
Configuration of a 15-second duration:

1 - 25 touches (reply: 5 blinks) to select the seconds.
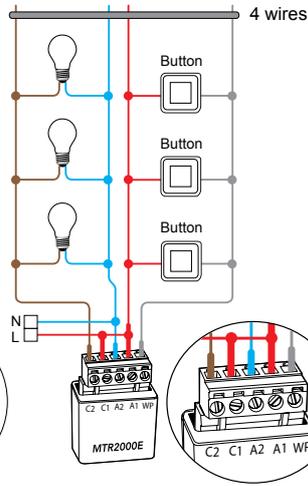2 - 14 touches (reply: 4 blinks) to set a 15-second duration.

SD542-0009 — WIRING FOR FLUSH-MOUNTED VERSION INSTALLED BEHIND A PUSHBUTTON

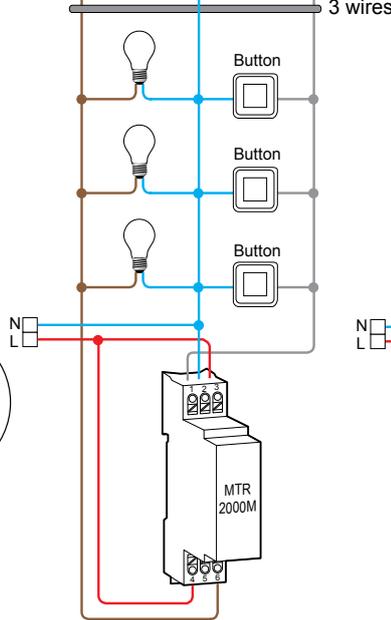> Wiring in flush-mounting box with pushbutton common **to neutral**
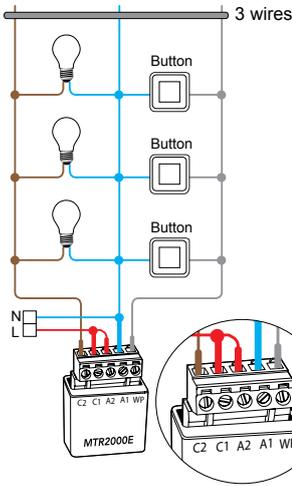
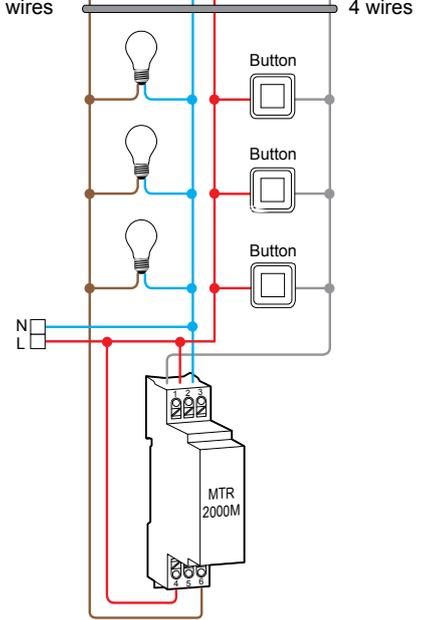> Wiring in flush-mounting box with pushbutton common **to phase**

SD542-0010 — WIRING FOR DIN RAIL-MOUNTED VERSION FOR ELECTRICAL PANEL

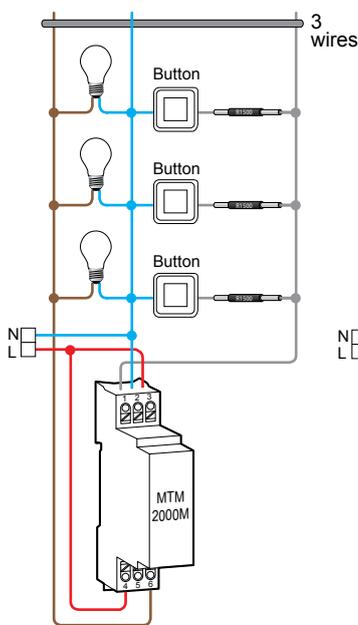> Wiring in electric panel with pushbutton common **to neutral**

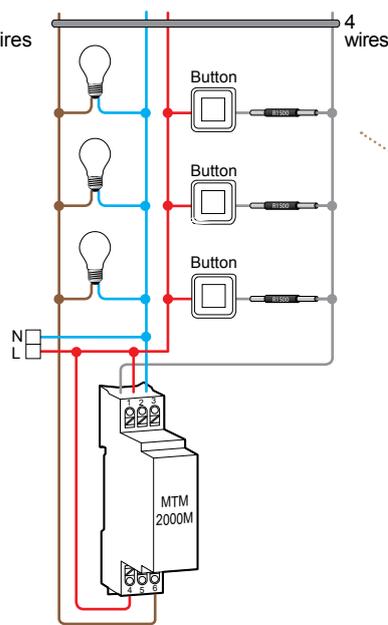> Wiring in electric panel with pushbutton common **to phase**

SD542-0011 — STAIRCASE LIGHTING TIMER WIRING MTM2000M WITH ANTI-JAM OPTION

> Wiring with pushbutton common **to neutral**

> Wiring with pushbutton common **to phase**

> **The lights will be switched off even if a pushbutton gets jammed.**
The user can switch the lights on again from another pushbutton.

ANTI-JAM ACCESSORY

R1500

Wired in series to every pushbutton
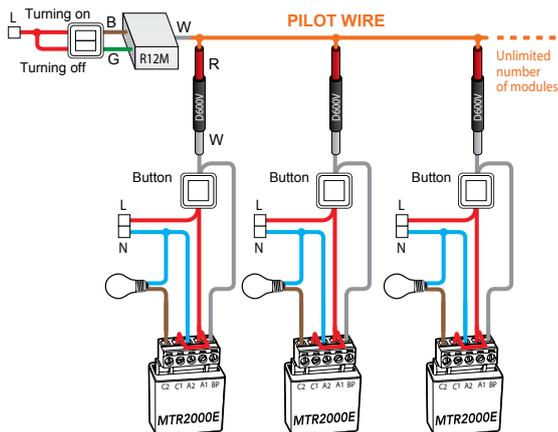
Accessory	Item number
R1500	5454074

IMPORTANT

> After wiring the R1500 accessory, remember to configure the timer (see instruction manual).

WIRING FOR LIGHT CENTRALISATION WITH TOGGLE RELAY MTR2000E

L Turning on
B W
PILOT WIRE
R12M
Turning off
G

Unlimited number of modules

R
D600V
W

Button Button Button

L
N

MTR2000E MTR2000E MTR2000E
C2 C1 A2 A1 BP

W = white wire
B = brown wire
R = red wire
G = green wire

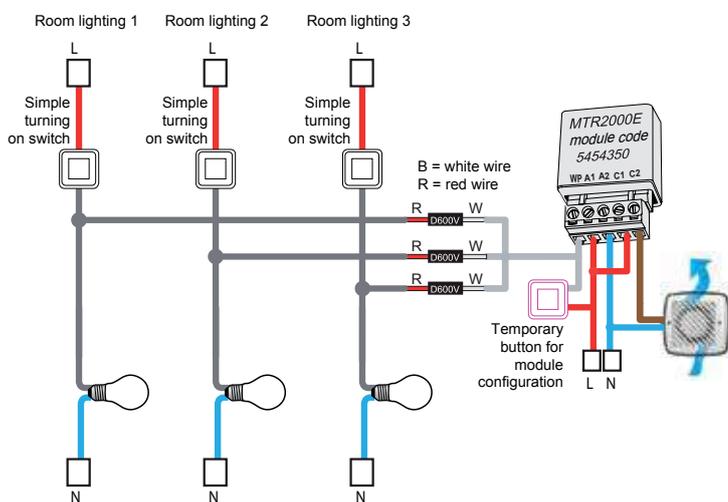| Accessories	Item number
D600V	5454072
R12M	5454073

LIGHTS CENTRALISATION

> Thanks to a single pilot wire, multiple toggle relay controls can be centralised to allow switching on and off of all lights simultaneously.

> The R12M accessory (5454073) allows the centralisation of MTR2000E modules with double pushbuttons

---

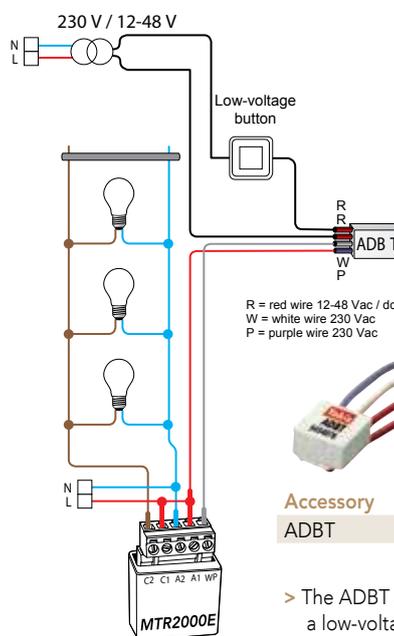## WIRING FOR TIMING OF ONE EXTRACTOR FAN WITH ONE OR MORE LIGHTING CIRCUITS

Room lighting 1 Room lighting 2 Room lighting 3

L L L

Simple turning on switch Simple turning on switch Simple turning on switch

MTR2000E module code 5454350

WP A1 A2 C1 C2

B = white wire
R = red wire

R W
D600V
R W
D600V
R W
D600V

Temporary button for module configuration

L N

N N N

> Extractor fans may be installed in bathrooms or damp rooms. They can be set to activate every time a light goes on and stay on for a certain amount of time after all lights have been switched off in the room.

Accessory	Item number
D600V	5454072

LOW-VOLTAGE PUSHBUTTON CONTROL

230 V / 12-48 V
N
L

Low-voltage button

R
R
ADB T
W
P

R = red wire 12-48 Vac / dc
W = white wire 230 Vac
P = purple wire 230 Vac
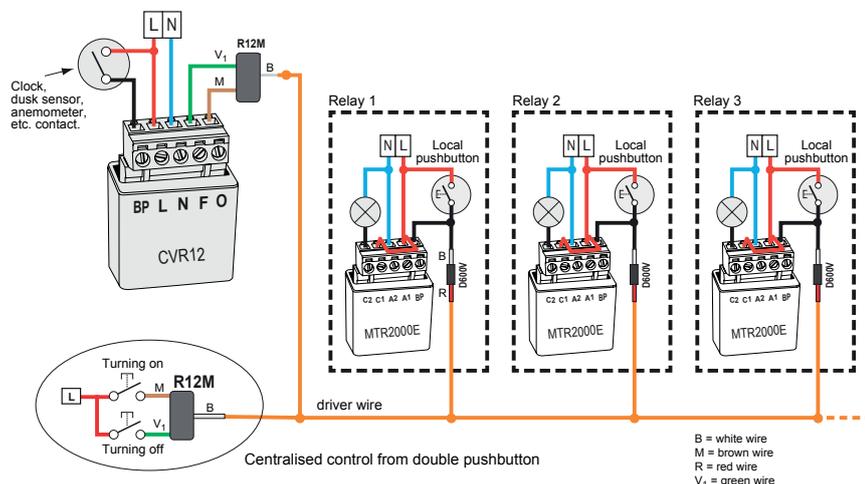
N
L

MTR2000E
C2 C1 A2 A1 WP

Accessory	Item number
ADBT	5454076

> The ADBT accessory allows using a low-voltage control: 12-48 V AC or DC

## CENTRALISATION OF SEVERAL MTR2000E RELAYS THROUGH A CONTACT

L N

R12M
V1
M
B

Clock, dusk sensor, anemometer, etc. contact.

BP L N F O

CVR12

Relay 1 Relay 2 Relay 3

N L Local pushbutton N L Local pushbutton N L Local pushbutton

B B B
D600V D600V D600V
R R R

MTR2000E MTR2000E MTR2000E
C2 C1 A2 A1 BP

Turning on
R12M
L M
B
V1
Turning off

driver wire

Centralised control from double pushbutton

B = white wire
M = brown wire
R = red wire
V1 = green wire

2000 W NIGHT SAVING MODULE

☑ Compatible loads > page 44 - 71

⬇ TECHNICAL FEATURES

Network voltage	230 V~ (+/-15%) – 50 Hz
Consumption	< 1W
Ambient temp.	from -30 °C to +70 °C
Umidità relativa	from 0 to 99%
Relative humidity	600 VA max., 230 VAC

Dimensions (mm)

32
48
20
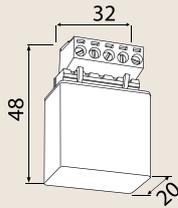
⬇ FUNCTIONAL FEATURES

During the night, the MEP2000 module switches off for a period of 4 up to 9 hours any lights that have been activated by a dusk sensor. The switching off is symmetrical with respect to the night centre, with a possible 1 or 2-hour offset.

The MEP2000 module guarantees in all cases that the lights are switched on for at least 1 hour at the beginning and at the end of the period.

⬇ ITEM NUMBER TABLE

FLUSH-MOUNTED 2000 RANGE	Model	Item number	P.
Flush-mounted night-time saving module	MEP2000E	5454356	17

⬇ MORE...

CE   MADE IN EU   **5-year warranty**

⬇ MODULE CONFIGURATION

Important
- Before setting any configuration, unlock the module with 23 short touches on the pushbutton. The module will lock automatically after 6 hours.
- However, the module can be locked again immediately with 21 short touches.

Switch-off duration configuration:
- Configurations are saved in case of a power failure.
- A duration of 4 up to 9 hours can be configured with a quick sequence of touches (see table on the side).
- Default factory setting is 5 hours.

Night centre offset configuration
- The night centre offset can be configured from 0 to 2 hours (see table on the side).
- Default factory setting is 1 hour.

Demo Mode
- The Demo Mode allows testing the product by accelerating its internal clock (x 1440).
- In this mode, a 24-hour day can be simulated in 1 minute.

Night duration
- Night duration is calculated based on the module's power-up period.
- The module saves the duration of the last 4 nights and calculates the average to estimate the duration of the current night.
- The module will never save durations under 5 hours.
- Upon commissioning, the 4 saved night durations are of 15 hours.

Lighting time
Offset = forward shift of night middle line. Can be configured by the installer from 0 to +2 hours (default setting 1 hour).
NT = average night time.
OT = off time set by the installer, from 4 to 9 hours (default setting 5 hours).
ELT = evening lighting time.
ELT = (NT-OT)/2 + Offset
The module switches on at power-up during ELT, then switches off during OT and switches on again until it is powered off.

| Touches[1]	Duration	Replies[2]	
	Off time		
10	**No switch-off**	10	blinks
11	**4 hours**	1	blink
12*	**5 hours**	2	blinks
13	**6 hours**	3	blinks
14	**7 hours**	4	blinks
15	**8 hours**	5	blinks
16	**9 hours**	6	blinks
	Night centre offset		
17	**no offset**	7	blinks
18*	**1 hour**	8	blinks
19	**2 hours**	9	blinks
21	**Configuration block**	1	blink
23	**Configuration release**	3	blinks
25	**reset to default values**	2	blinks
26*	**demo OFF**	6	blinks
27	**demo ON**	7	blinks

CONFIGURATION PRINCIPLE:
(1) SHORT CONSECUTIVE TOUCHES of the pushbutton (maximum interval 0.8 s)
(2) CONFIRMATION REPLY with blinking after touches.
(*) default setting

SD542-2007 STANDARD WIRING

C2 C1 A2 A1 BP

MEP2000E
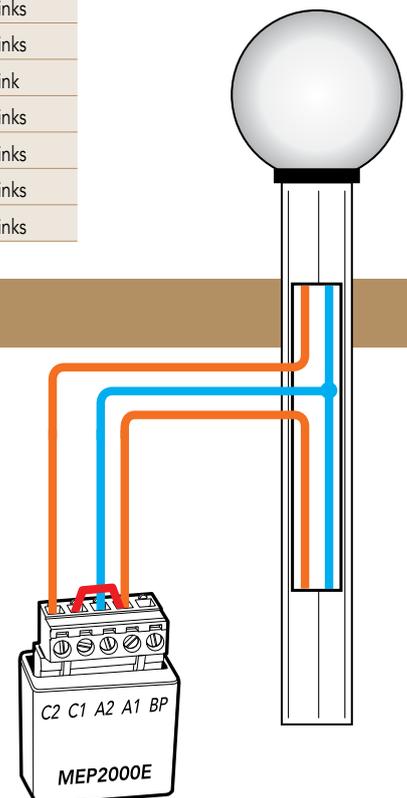
RADIO: 2000 W RELAY WITH OPTIONAL TIMED OPERATION

☑ Compatible loads > page 44 - 71

↓ TECHNICAL FEATURES
MTR2000ERP - MTR2000ERPX

Network voltage	230 V~ (± 15%) - 50 Hz
Power	
on resistive load	10 A - 250 VAC, max. 2500 VA
other loads	10 A - 30 VDC max 300W
Consumption	< 1 VA - < 0,3W
Ambient temp.	- 20 °C + 60 °C
Sound level	< 60 dB at 20 cm
Relative humidity	from 0 to 70%

↓ TECHNICAL FEATURES
MTR2000MRP - MTR2000MRPX

Network voltage	230 V~ (± 15%) - 50 Hz
Power	
on resistive load	10A - Max. 2000W
other loads	view table on p.44 DS1054-022
Consumption	< 1 VA - < 0,3W
Ambient temp.	- 20 °C + 40 °C
Sound level	< 60 dB at 20 cm
Relative humidity	from 0 to 70%
Pushbutton and status light indicator	

↓ RADIO FEATURES

Range:
- In the same room < 100 sq. m
- 250 m in free field without obstacles
(Radio range is reduced by metal items, walls or partitions)

Frequency: 2,4 GHz

Transmission: Two-way with notification LED on transmitter.

⚠️ If the LED is not blinking this does not indicate a battery fault, but a failed radio transmission.

Data are saved in case of a power failure.

Dimensions (mm)

22,5
48
80
33
22,5
48
80
33

Aerial Cable length: 250 mm

↓ ITEM NUMBER TABLE

FLUSH-MOUNTED 2000 RANGE	Model	Item number	P.
Relay with optional timed operation 2000 W	MTR2000ERP	5454462	9,11
Relay with optional timed operation 2000 W (with external aerial)	MTR2000ERPX	5454463	9,11
Relay with optional timed operation 2000W	MTR2000MRP	5454464	9,11
Relay with optional timed operation 2000W (with external aerial)	MTR2000MRPX	5454465	9,11

↓ MORE...

CE   MADE IN EU   **5-year warranty**

↓ MAIN FUNCTIONS

Switching on, switching off or timing a lighting circuit

Timing
- To ensure greater energy savings, the MTR2000ERP radio toggle relay can be configured to switch the lights off in case you forget about it. Timer from 2 seconds to 4 hours. Default setting: disabled.
- This function also features a switch-off notification at the end of the timed period: a LED will blink one minute before lights are switched off. Default setting: disabled.
- Double timing: press the pushbutton for over 3 seconds to enable a 12-hour long duration. Default setting: disabled.

MTR2000ERP and Yokis radio system

Pulse mode
- The MTR2000ERP module can be controlled in pulse mode. This function can be configured directly from the transmitter. Pressing the pushbutton or the remote control, the MTR2000ERP sends a 0.5-second pulse.
This application is ideal to control a gate or garage door and to activate or deactivate an alarm.

Relay or instant mode
- The MTR2000ERP module can be controlled in relay mode. This function can be configured directly from the transmitter. Pressing the transmitter pushbutton activates the relay contact. This application is ideal to control a dimmer or a ringer.

IMPORTANT
> The MTR2000ERP module can be controlled with a pushbutton or a switch.
> Compatible with all load types.
> Combined radio and wired operation.
> Universal output with potential free contact.
> **Signal repeater**
Every MTR2000ERP can also be used as a signal repeater to increase radio range. An unlimited number of repeaters can be used.

⚠️

↓ CONFIGURATION TABLE

⚠️ Before setting any configuration, unlock the module with **23 short** presses on a pushbutton connected to BP terminal. The module will lock automatically after 6 hours, or with **21 presses** from local wired pushbutton.

CONFIGURATION PRINCIPLE: * SHORT CONSECUTIVE TOUCHES of the pushbutton (maximum interval 0.8 s)
** CONFIRMATION REPLY with blinking or relay sound after touches.

Touches*	Duration	Replies**
11	**2 minutes**	1 blink
12	**4 minutes**	2 blinks
13	**8 minutes**	3 blinks
14	**15 minutes**	4 blinks
15	**30 minutes**	5 blinks
16	**60 minutes (one hour)**	6 blinks
17	**120 minutes (2 hours)**	7 blinks
18	**240 minutes (4 hours)**	8 blinks
19	**unlimited**	9 blinks

Touches*	Funzioni	Replies**
20	**Local control from switch.**	10 blinks
21	**Configuration lock**	1 blink
22	**Blinking mode**	2 blinks
23	**Configuration release**	3 blinks
24	**ON / OFF Notification**	4 blinks
25	**Duration in seconds**	5 blinks
26	**Duration in minutes**	6 blinks
27	**ON / OFF Timer**	7 blinks
29	**ON/OFF Long Duration**	9 blinks
30	**Full reset to default values**	2 blinks

Settings in seconds

All durations set in minutes can be changed into seconds with **25 short** touches (reply: 5 blinks).
It is possible to switch back to minutes with **26 short** touches (reply: 6 blinks).

Example:
Configuration of a 15-second duration:

1 - 25 touches (reply: 5 blinks) to select the seconds.

2 - 14 touches (reply: 4 blinks) to set a 15-second duration.

SYSTEM DIAGRAMS

⬇ EASY CONNECTION

🔊 Connection from receiver MTR2000ERP with Yokis radio transmitters (direct connection)

1st step `E5`

On the transmitter, quickly touch the pushbutton you wish to connect for 5 times. The transmitter LED will start blinking quickly for 30 seconds, indicating that it is waiting for a connection.

2nd step `R1`

WHILE the transmitter LED is blinking, insert the tip of a pencil in the "connect" hole on the receiver (located on the back of the casing) and press lightly.

If the connection is successful, the receiver LED blinks once and the transmitter LED stops blinking.

⚠ **Warning! The receiver must be powered.**

SD542-0017	WIRING WITH SWITCH FUNCTIONALITY

CAN BE DONE WITH ALL YOKIS TRANSMITTERS
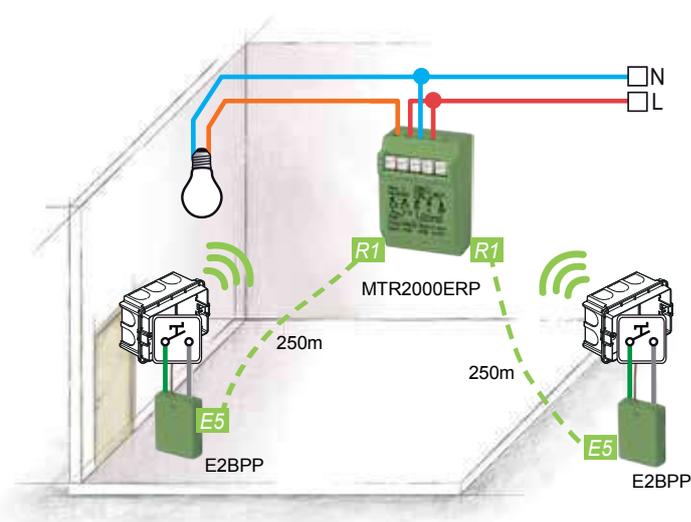Example: with 1 TLC4CP

MTR2000ERP

250m

TLC4CP
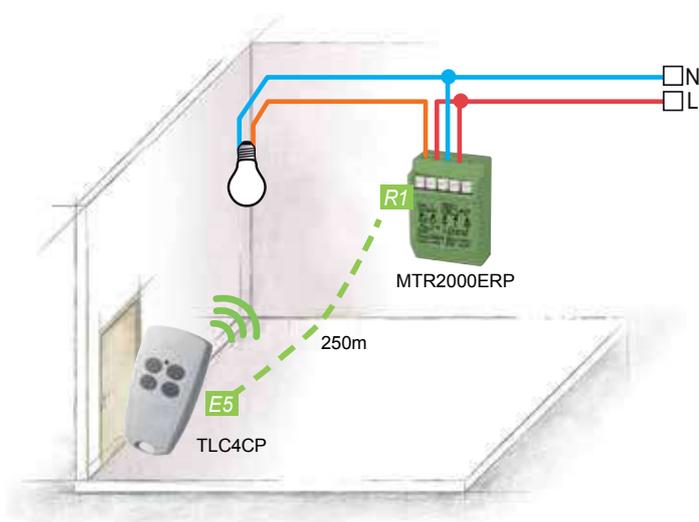
This solution can be done with all Yokis transmitters

SD542-0018	WIRING WITH TWO-WAY LIGHT SWITCH FUNCTIONALITY

CAN BE DONE WITH ALL YOKIS TRANSMITTERS
Example: with 2 E2BPP in flush-mounted box, behind pushbutton or switch

MTR2000ERP

250m   250m

E2BPP   E2BPP
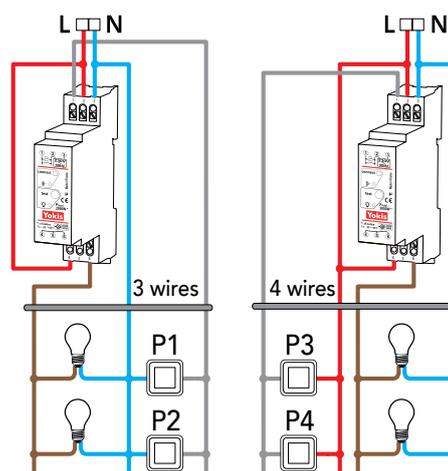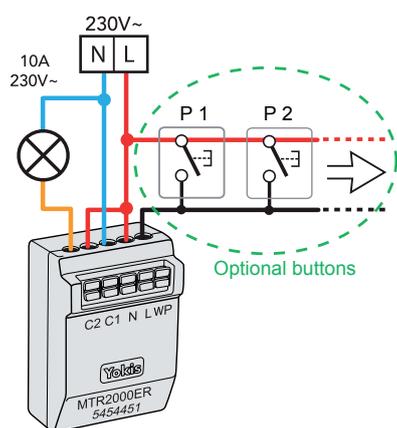
> This solution requires the Dimmer kit with diverter
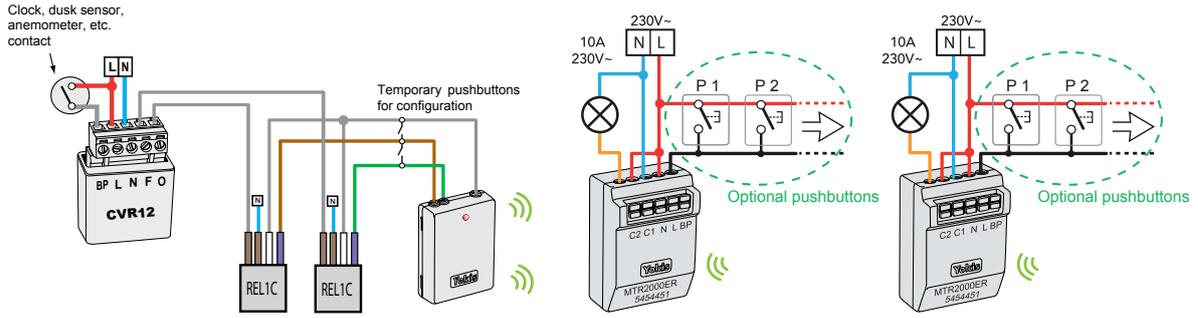
KITRADIOVVP
Item no. 5454521

(Please contact our sales network to verify product availability)

Kit contents:
- 1 MTR2000ERP
- 2 E2BPP

SD542-0016	COMBINED RADIO AND WIRED OPERATION

230V~

10A 230V~

P 1   P 2

Optional buttons

C2 C1 N L WP

MTR2000ER
5454451

L N   L N

3 wires   4 wires

P1   P3
P2   P4

RADIO CONTROL, FROM AN AUTOMATIC CONTACT OF ONE OR SEVERAL MTR2000ERP MODULES

Clock, dusk sensor, anemometer, etc. contact

Temporary pushbuttons for configuration

CVR12

REL1C REL1C

Optional pushbuttons

Optional pushbuttons

⚠ For information on configuration, refer to tables on page 68/69 or www.yokis.com website

⬇ DS1054-022 - 220 – 240 V~ ALLOWED LOADS TABLE

	-◦W◦-	☼	⊏⊏	▱⊗	⏄	⬛⊗	-Ⓜ-
MTR500(E)(M) * MTM500(E)(M) (3) MTT500(E)(M) MTC500E	I max: 2A P min: 5W P max: 500W (2)	I max: 2A P min: 5W P max: 500W (2)	I max: 1A P min: 11VA P max: 250VA (1) (2)	I max: 2A P min: 11VA P max: 500VA (1) (2)	I max: 2A P min: 11VA P max: 250VA (1) (2)	I max: 2A P min: 11VA P max: 500VA (2)	-
MTV500(E)(M) * MTVT500(E)(M) (3) MTK500E	I max: 2A P min: 5W P max: 500W	I max: 2A P min: 5W P max: 500W	I max: 1A P min: 11VA P max: 250VA (1)	I max: 2A P min: 11VA P max: 500VA (1)	I max: 2A P min: 11VA P max: 250VA (1)	I max: 2A P min: 11VA P max: 500VA	-
MTV500ER * (3)	I max: 2A P min: 2W P max: 500W	I max: 2A P min: 5W P max: 500W	I max: 1A P min: 11VA P max: 250VA	I max: 2A P min: 11VA P max: 500VA	I max: 2A P min: 11VA P max: 250VA	I max: 2A P min: 11VA P max: 500VA	-
MTR2000E MTR2000ER(P)(X) MTM2000E MEP2000E	I max: 10A P max: 2000W	I max: 6A P max: 1380W	I max: 3A P max: 690VA	I max: 3A P max: 690VA	I max: 3A P max: 690VA	I max: 3A P max: 690W	-
MTR2000M MTM2000M MEP2000M MTR2000MRP(X)		I max: 10A P max: 2000W	I max: 5A P max: 1150VA	I max : 5A P max: 1150VA	I max: 5A P max: 1150VA	I max: 5A P max: 1150VA	-
MVR500ER(P)(X) MVR500E MVR500MRP(X)	-	-	-	-	-	-	I max: 2A P max: 500VA

* If the module is installed in a waterproof case, so: Imax=1A and Pmax=250W for resistive loads; Imax=1A and Pmax=250VA for other loads.

(1) Use form 1 to 3 CHR3W accessories in parallel to the load.

(2) 2000 range devices should be preferred if neutral is available.

(3) Maximum power 250VA on all capacitive loads except on TBT 12V electronic transformer (500VA).

-◦W◦- Resistive loads   ☼ Incandescent light bulbs   ⊏⊏ Fluorescent and energy saving light bulbs   ▱⊗ Electronic transformers
⏄ Light emitting diode (LED)   ⬛⊗ Ferromagnetic transformers   -Ⓜ- Motor

---

RADIO: 500W DIMMER WITH OPTIONAL TIMED OPERATION WITH NEUTRAL WIRE

☑ Compatible loads > page 44 - 71

⬇ TECHNICAL FEATURES

Network voltage	230 V~ (+10% -15%) - 50 Hz
Minimum power	3 W
Maximum power	
- sealed boxes	250 W / 1 A
- other boxes	500 W / 2 A
Power	view table on p.44 DS1054-022
Ambient temp.	- 20 °C + 40 °C
Sound level	2,4 GHz
Relative humidity	from 0 to 90%
Dimensions (mm)	

31 / 25 / 46 / 12

⬇ FUNCTIONAL FEATURES

Sine-wave brightness variation, at phase start or end, through automatic recognition of load type.

Inrush current limitation through filament pre-heating.

Automatic disabling in case of short circuit on the load, with automatic reset after the fault is eliminated.

Electronic overheating protection.

Double overload protection with power cut-off.

Immune to mains disturbances up to 1.5 kV

⬇ RADIO FEATURES

Range: - Within the same room < 100 sq. m
- 50 m in free field without obstacles

(Radio range is reduced by metal items, walls or partitions)

Frequency:	2,4 GHz
Transmission:	Two-way with notification LED on transmitter

Data are saved in case of a power failure.

⬇ ITEM NUMBER TABLE

FLUSH-MOUNTED 500 RANGE	Model	Item number	P.
RADIO: Dimmer with optional timed operation 500 W with neutral	**MTV500ER**	**5454454**	13

⬇ MORE...

CE   MADE IN EU   5-year warranty

1. Timer configuration:

The default duration is unlimited.
A duration of 2 seconds up to 4 hours can be configured with a quick sequence of touches (see table on the side). It is possible to configure the duration in seconds (from 2 to 240 seconds) with 25 short touches. It is possible to switch back to minutes with 26 touches.
Configurations are saved in case of a power failure.

2. 12-hour long duration:

A 12-hour long duration can be enabled with 6 short touches of the pushbutton. Press again once for advance switch-off: the 12-hour long duration is cancelled and the system resumes normal operation.

3. Warning with gradual switch-off:

The warning with gradual switch-off is enabled by default. The warning can be disabled or re-enabled with 24 short touches:
1 minute before the end of the scheduled lighting period, the module blinks once to warn of the gradual switch-off.
After the blinking, it is possible to set the same lighting schedule once again with one short touch of the pushbutton.

4. The operation status is saved in case of a power failure:

The dimmer saves its operation status and, in case of a power failure, it restores it when the power is back. If the dimmer was off at the time of the power failure, the lights will remain off; if it was on, it will be switched back on at the same brightness it was when the power was cut off.
This function can be disabled with 35 short touches.

5. Relay mode:

In this mode the MTV500ER no longer acts like a dimmer, but like a simple relay. This function can be enabled (or disabled) with 20 short touches.

6. Memory:

The last brightness level that was set with a long touch is saved, and is recalled at the following switch-on (or with 2 short touches, depending on the configuration – see below).

7. 100% lighting at first touch:

In certain types of applications, it may be desirable to have 100% lighting with the first touch. In this case, 2 short touches recall the saved brightness value. This mode can be enabled or disabled with 29 short touches (by default, the Memory mode is selected with the first touch).

8. Minimum brightness:

It can be recalled with 4 short touches.
- Configure the minimum desired level with a long touch of the pushbutton.
- Then, apply 27 short touches. The module replies by blinking 7 times for confirmation.
- The minimum value can be restored with 28 short touches.

9. Configuration block:

To prevent any changes from being made, the module can be blocked with 21 touches (reply: 1 blink). In all cases, the MTV500ER is automatically blocked after 6 hours.

10. Default brightness values:

Short touches	Memory mode (default)	100% mode (see § 7)
1	Memory	100%
2	100%	Memory
3	50%	50%
4	Minimum level	Minimum level

11. Grouping of several MTV500ER dimmers to increase switched power:

Each module can control individually up to 500/300 VA.
However, several modules can be "grouped together" via radio. In this way, all dimmers will work simultaneously.
To group together via radio 2 or more MTV500ER modules
- apply 4 short touches to the "connect" tab of a MTV500ER
- then, press once the tab on the other MTV500ER
- to disable the connection, press for over 3 seconds the tabs on each MTV500ER.
For more information, see Radio Installation Quick Guide, page 57

12. Use with energy-saving light bulbs or LEDs:

If the light bulb flickers at low brightness levels, increase the minimum brightness (see §8). To eliminate or reduce this problem, it is also possible to connect the accessory CHR3W in parallel between the lamp return and the neutral.

13. Children's room night light:

The children's room night light activates with 7 presses of the local pushbutton.

⚠ Check that the light bulb switches on at the set minimum brightness. If this is not the case, adjust the minimum brightness (see § 8).

APPLICATION FOR THE DEAF AND HARD OF HEARING

> This application enables the operation of one or more blinking lights to warn persons with hearing impairments instead of an acoustic signal. The addition of a transmitter (e.g., E2BPP) connected to the ringer control pushbutton is required.
The blinking mode on the MTV500ER module (or on MTR2000ERP) can be enabled with 22 short touches.

⬇ CONFIGURATION TABLE

⚠ Before setting any configuration, unlock the module with **23 short presses** on a pushbutton connected to BP terminal. The module will lock automatically after 6 hours, or with **21 presses** from local wired pushbutton.

CONFIGURATION PRINCIPLE: *   SHORT CONSECUTIVE TOUCHES of the pushbutton (maximum interval of 0.8 s)
                          **   CONFIRMATION REPLY with blinking or sounds made by the relay after touches.

Touches*	Duration	Replies**
11	**2 minutes**	1 blink
12	**4 minutes**	2 blinks
13	**8 minutes**	3 blinks
14	**15 minutes**	4 blinks
15	**30 minutes**	5 blinks
16	**60 minutes (one hour)**	6 blinks
17	**120 minutes (2 hours)**	7 blinks
18	**240 minutes (4 hours)**	8 blinks
19	**unlimited**	9 blinks

Touches*	Functions	Replies**
20	**Relay/Dimmer**	10 blinks
21	**Configuration lock**	1 blink
22	**Blinking mode**	2 blinks
23	**Configuration release**	3 blinks
24	**ON / OFF Notification**	4 blinks
25	**Duration in seconds**	5 blinks
26	**Duration in minutes**	6 blinks
27	**Minimum brightness setting**	7 blinks
28	**Minimum level reset to default value**	8 blinks
29	**100% or Memory upon 1st touch**	9 blinks
30	**Full reset to default values**	2 blinks
35	**Status is saved in case of power failure**	5 blinks

Settings in seconds

All durations set in minutes can be changed into seconds with **25 short** touches (reply: 5 blinks). **It is possible to switch back to minutes** with **26 short** touches (reply: 6 blinks).

Example:
Configuration of a 15-second duration:
1 - 25 touches (reply: 5 blinks) to select the seconds.
2 - 14 touches (reply: 4 blinks) to set a 15-second duration.

SYSTEM DIAGRAMS

SD542-0019 — WIRING

230V~ 50Hz

N L

Load

Optional button

Red wire

Blue wire

Aerial

Orange wire

EASY CONNECTION

Connection from receiver MTV500ER with Yokis radio transmitters (direct connection)

1st step `E5`

On the transmitter, quickly touch the pushbutton you wish to connect for 5 times. The transmitter LED will start blinking quickly for 30 seconds, indicating that it is waiting for a connection.

2nd step `R1`

WHILE the transmitter LED blinks, press the "connect" tab on the receiver (located on the top of the casing).

If the connection is successful, the receiver LED blinks once and the transmitter LED stops blinking.

WARNING: The receiver must be powered.
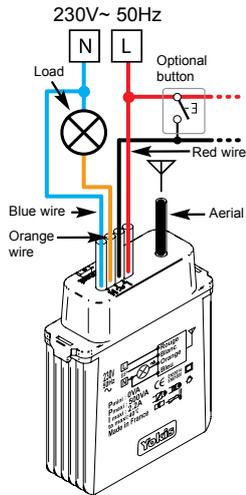
IMPORTANT

> Compatible with all dimmable loads starting from 3W up to 500W (see tables on page 44 or 71).

SD542-0020 — RADIO DIMMER WIRING

CAN BE DONE WITH ALL YOKIS TRANSMITTERS
Example: with 1 TLC4CP

N
L

R1 MTV500ER

50m

E5

TLC4CP
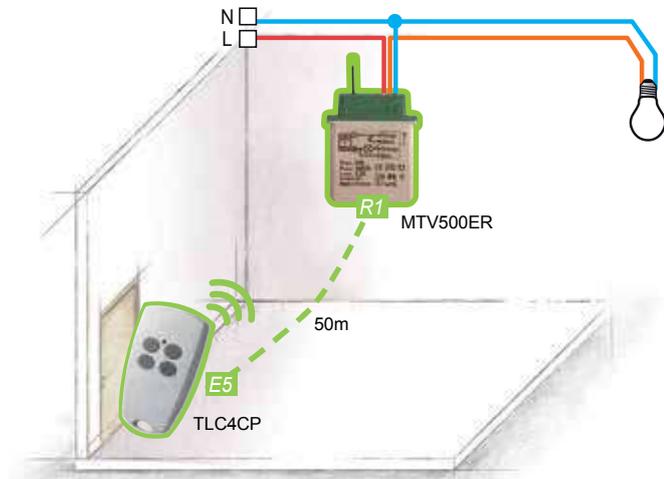
This solution can be done with all Yokis transmitters

SD542-0021 — RADIO DIMMER WIRING WITH TWO-WAY SWITCH

CAN BE DONE WITH ALL YOKIS TRANSMITTERS
Example: with 2 E2BPP in 2 flush-mounted boxes, behind 2 pushbuttons

N
L

MTV500ER

R1 R1

50m

E5

E2BPP

E5
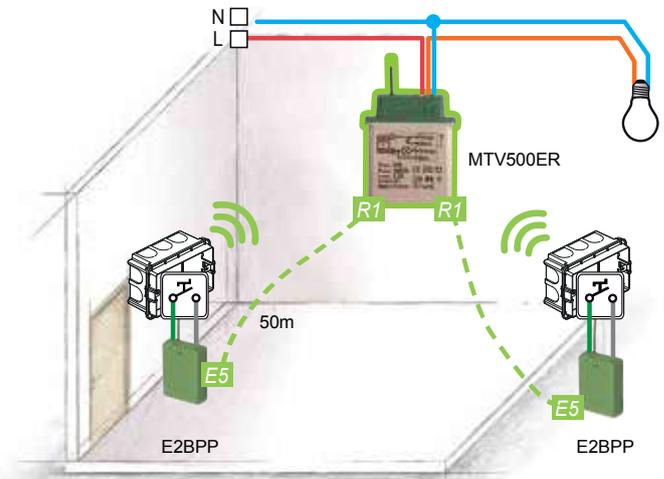
E2BPP

> This solution requires the dimmer kit

KITRADIOVARVVP
Item no. 5454523

(Please contact our sales network to verify product availability)
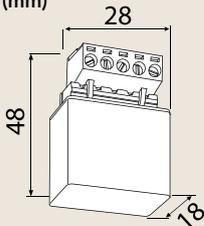
Kit contents:
1 MTV500ER
2 E2BPP
1 CHR3W

WINDOW SHUTTER MODULE

☑ Compatible loads > page 44 - 71

↓ TECHNICAL FEATURES

Network voltage	230 V~ (+10% -15%) - 50 Hz
Power	3-wire motor 230 V~, 2 A max. 500 VA
Ambient temp.	-20 °C +50 °C
Sound level	< 60 dB at 20 cm
Relative humidity	from 0 to 99%

Dimensions (mm)

28
48
18

↓ FUNCTIONAL FEATURES

Centralisation
All window shutters can be centralised on a double up/down pushbutton, with a single pilot wire. The number of window shutters is unlimited, which makes it ideal for large installations in office buildings.

Economical
Simple and functional, at a very convenient price. Just add a pilot wire during installation to centralise the system.

Small
It can be installed in the flush-mounted boxes of the wiring system having 50 mm depth.

Daily scheduler
Configure daily window shutter opening and closing times thanks to the built-in daily scheduler.

↓ ITEM NUMBER TABLE

FLUSH-MOUNTED 500 RANGE	Models	Item number	P.
Window shutter module	**MVR500E**	5454090	19

↓ MORE...

CE   MADE IN EU   **5-year warranty**

IMPORTANT

> In case of power failure, the MVR500 module saves all settings, except for daily schedules   ⚠

↓ MAIN FUNCTIONS

Module use

The MVR500E module can be controlled with a single pushbutton or double pushbutton (not interlocked). The window shutter starts moving a few tenths of a second after touching the pushbutton.

With single pushbutton: The window shutter can be opened or closed completely with one touch. While the window shutter is moving, it can be stopped with another touch. In this case, when touching the pushbutton again, the module will change the window shutter's moving direction.

With double pushbutton (not interlocked): requires the use of the Yokis R12M accessory item no.: 5454073
To move the window shutter upwards or to stop upward movement, touch the Up pushbutton once.
To move the window shutter downwards or to stop downward movement, touch the Down pushbutton once.
While the window shutter is closing, press once the Up pushbutton to stop its movement for 0.5 seconds and make it change direction. Touching the two pushbuttons simultaneously will open the window shutter.

Short touches: Yokis modules can be operated or configured with repeated short touches. The speed must be of at least 2 touches per second. As the user is touching the pushbuttons, the window shutter does not move. At the end of the touches, the module always confirms the window shutter configuration with a quick up and down movement. To configure identical settings on several modules, apply short touches on the centralised Up or Down pushbutton.

IMPORTANT! Before setting any configuration, unlock the module with 23 short touches on the pushbutton.

SD542-0022 WIRING
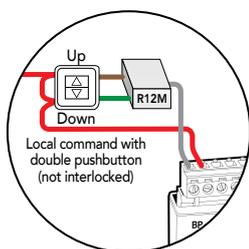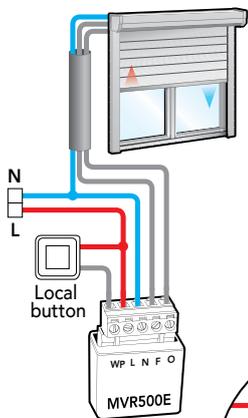
> Use a protected power supply line, in accordance with the laws in force.
Disconnect the power supply before wiring the module.

> Connect the main power supply between the "L" and "N" terminals.

> Connect the local pushbutton between the "L" and "BP". To use a double pushbutton (not interlocked), add the R12M accessory (Item no.: 5454073)

> Connect the motor wires to the "N", "O" and "F" terminals. Make sure that the wire connected to the "O" input actually corresponds to the up movement. Do not rely on the colour of motor wires.
To verify motor correct connection, apply 3 short touches on the pushbutton: the window shutter should move upwards. If that is not the case, simply invert the motor wires on the terminal board of the MVR500E.

N
L
Local button
WP L N F O
MVR500E

Up
R12M
Down
Local command with double pushbutton (not interlocked)
BP

BP	--	Pushbutton
L	--	Phase 230 V~ 50 Hz pushbutton common
N	--	Motor common neutral
F	--	Closing motor wire
O	--	Opening motor wire

The module terminal board can be removed for easier wiring.

⬇ MVR500E CONFIGURATION SUMMARY TABLE

> FUNCTIONS		Touches[1]
Intermediate position	- Intermediate position return	2
	- Current window shutter position is saved as intermediate position	5
Centralisation with single pushbutton	- Centralised opening with single pushbutton	3
	- Centralised closing with single pushbutton	4
Daily scheduler	- Daily scheduler of intermediate position time	7
	- Daily scheduler of closing time	8
	- Daily scheduler of opening time	9
	- Cancelling of all daily schedules	10
Electronic limit switches (2)	- Definition of lower electronic limit switch	12
	- Definition of upper electronic limit switch	14
	- Delete upper and lower limit switch	16
Torque control	- Cancelling of opposite movement in case of motor overload [3]	17
	- Motor torque increase [3]	19
	- Up and down wire logic inversion[3]	20
	- Limit switch and motor torque control disabling	24
	- Disables/enables motor torque control [3]	26
Module block	- Installer configuration block	21
	- Disables/enables daily scheduler [3]	22
	- Installer configuration authorisation	23
Reset to default values	- Module reset to default settings	25

(1) Quick consecutive short touches of the pushbutton.
(2) For electronic limit switch configuration, contact technical support.
(3) The same number of short touches allows returning to the previous configuration.

Definition of short touches:
- It is possible to use either the Up or the Down pushbutton in case of double pushbutton (not interlocked).
  To configure identical settings on several modules, apply short touches on the centralised Up or Down pushbutton.
- Before carrying out any configuration with short touches, the window shutter must be stationary for at least 2 seconds. No more than 1 second must elapse between two consecutive touches.
- At the end of the short touches, the window shutter performs an up and down movement to confirm configuration.

Daily hourly scheduler

- A daily opening and closing, as well as an intermediate position, can be configured for each window shutter.

  To do so, follow the instructions below at the desired time:
  closing = 8 touches
  opening = 9 touches
  intermediate position = 7 touches

- In case of power failure, daily schedules are deleted. Alternatively, it is possible to connect an external time switch or dusk sensor through the CVI34 accessory (Item no. 5454806), as described on page 49.

Saving an intermediate position

- Close the window shutter completely and then move it upwards to the desired position:
  Save the position with 5 touches of the pushbutton.

- The position can be recalled with 2 short touches of the pushbutton.

⬇ FAULT TABLE

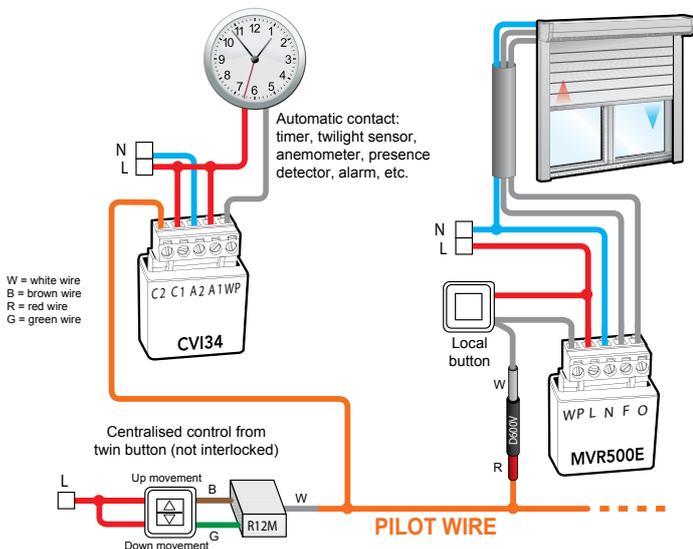| > FAULT	> CAUSES	> CHECKS AND SOLUTIONS
The window shutter does not move but the relays can be heard switching for one second	- Motor wires may be disconnected	- Verify window shutter operation by disconnecting the connector of the MVR500E and powering the devices directly
	- The motor is in overload protection mode	- After several operations the window shutters switch to overload protection mode. Normal operation is resumed after a few minutes
The window shutter stops during an upward movement and changes direction	- Motor wires may be inverted	- Apply 3 short touches on the pushbutton to open the window shutter. If the window shutter closes, it means the connection is inverted. Invert the up and down wires on the MVR500E terminal board
	The motor is under excessive stress.	- Try increasing motor torque with 19 short touches
The window shutter stops during a downward movement and changes direction	- The window shutter segments are misaligned and do not slide properly along the rails	- Operate the window shutter repeatedly to try and re-align the segments. - Try increasing motor torque with 19 short touches
After closing completely, the window shutter slightly opens	- The lower limit switch is misaligned and the motor pushes against the electrical limit switch	- Re-adjust the window shutter lower electrical limit switch - Try increasing motor torque with 19 short touches - In case of motor overload, eliminate the opposite movement with 17 short touches
After opening completely, the window shutter slightly closes	- The upper limit switch is misaligned and the motor pushes against the side mechanical limit stops	- Adjust the window shutter upper electrical limit switch
		- In case of motor overload, eliminate the opposite movement with 17 short touches
The window shutters stop during movement only when operated from a centralised control	Poor main power supply	- Avoid using wire extensions with insufficient cross-section area or too long to power the system
When operating the centralised control, some window shutters move upwards while others move downwards	- The motor wires are inverted on some modules	- Apply 3 short touches on the pushbutton to open the window shutter; if the window shutter closes, it means the motor wires are inverted on the terminal board

SD542-0023 — PILOT WIRE CENTRALISATION

> Each window shutter can still be controlled locally with a single or double pushbutton. In the latter case, a R12M must be installed behind the double pushbutton.

> Single and double pushbuttons can both be used in the same installation.

> **Centralisation** is achieved through a pilot wire connecting all local controls with the **D600V accessory**. This allows opening or closing all window shutters simultaneously.

> An unlimited number of window shutters can be connected.

> In case of three-phase power supply, the same phase must be used for pilot wire and power supply of MVR500E.

> If this is not possible, use the REL1C (5454081) and CVI34 (5454806) accessories.

> The relevant system diagrams are available on **www.yokis.com**
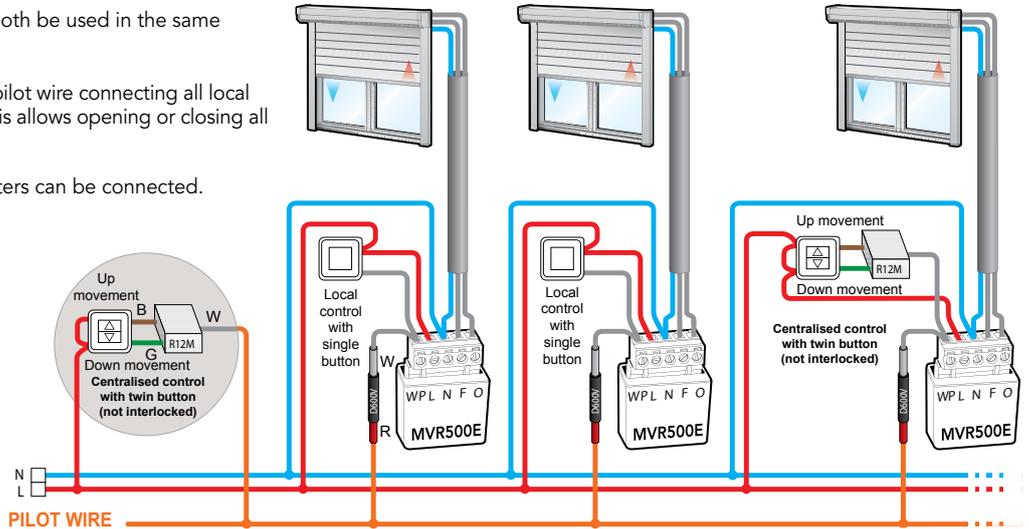
SD542-0025 — SCHEDULING WITH PROGRAMMABLE CLOCK OR DUSK SENSOR

W = white wire
B = brown wire
R = red wire
G = green wire

SD542-0034 — WINDOW SHUTTERS CENTRALISATION WITH DOUBLE PUSHBUTTON

Centralised control for double pushbutton with CVI34*

* useful when the pilot wire is > 200m long

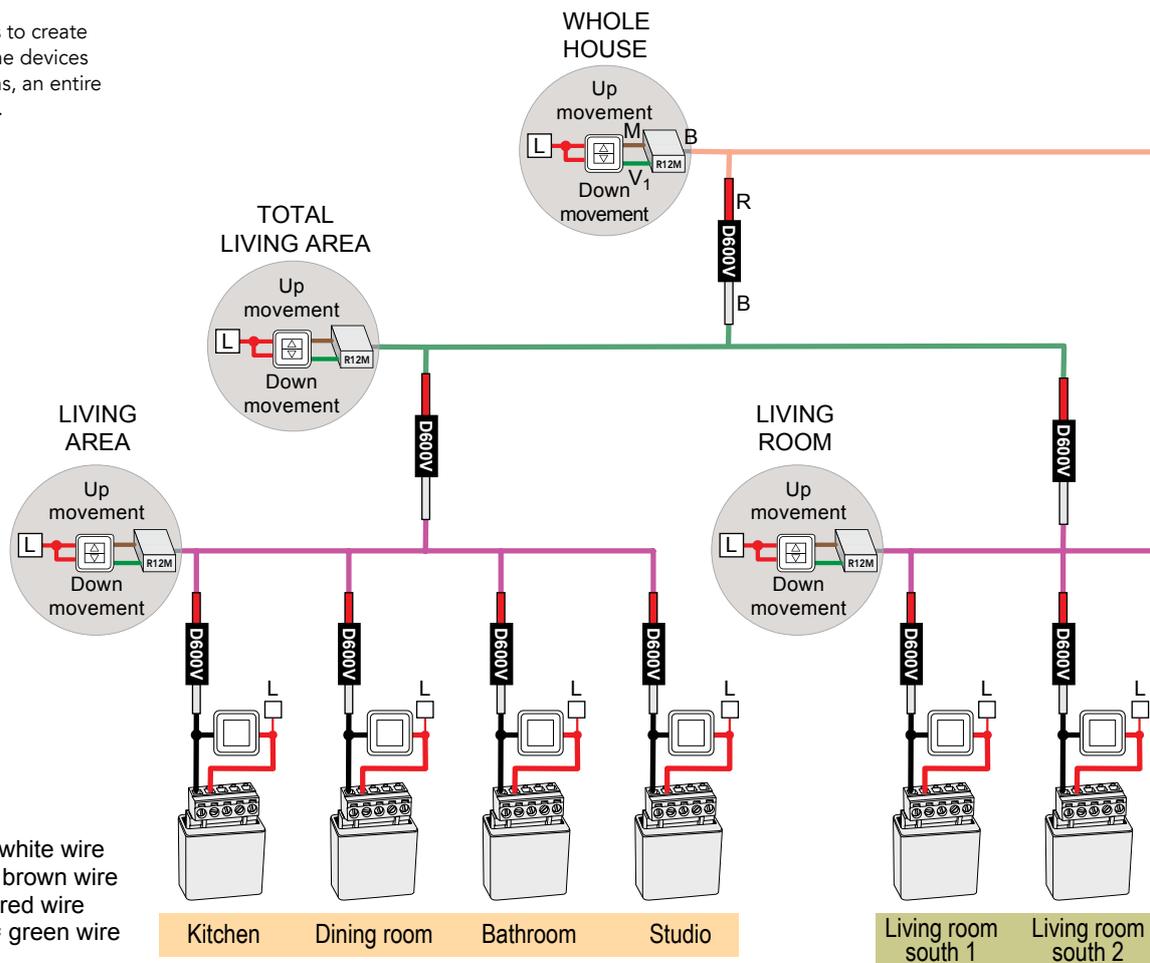Centralised control for double pushbutton
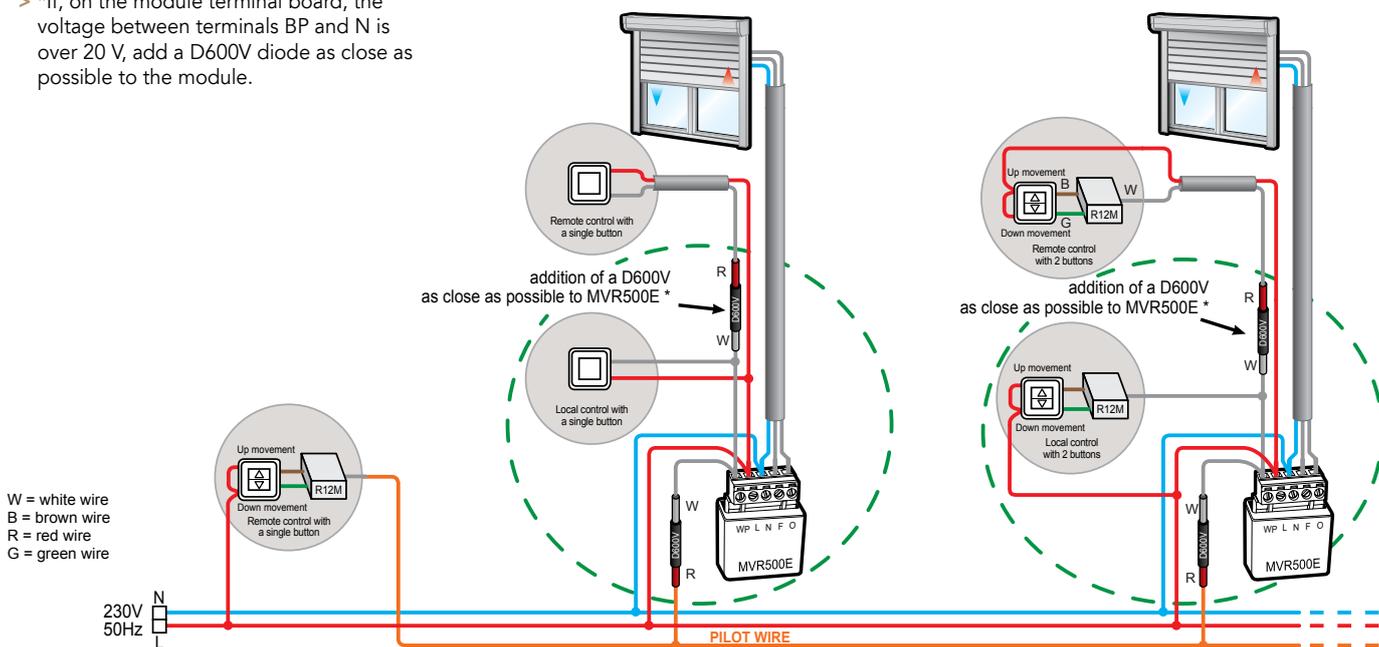
230V 50Hz
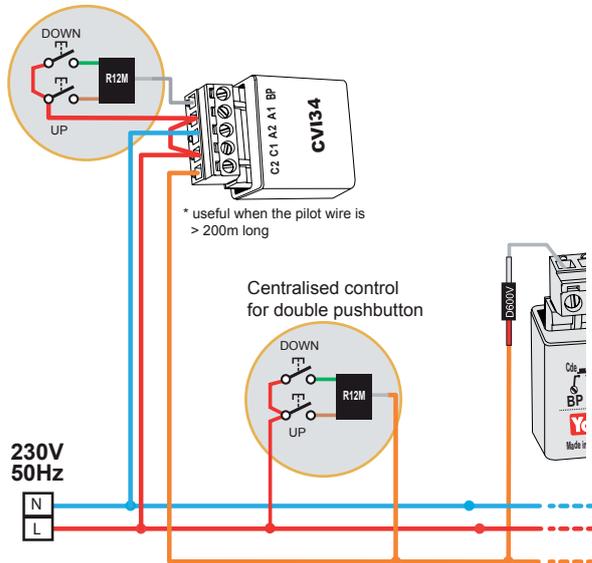
⬇ ACCESSORIES

CVI34

– Allows controlling the modules with a clock, a dusk sensor or an anemometer.
– Dimensions (mm): width 32 × height 48 × depth 20

> The use of a pilot wire also allows to create intermediate areas. In this way, the devices installed in several different rooms, an entire floor or building can be grouped.
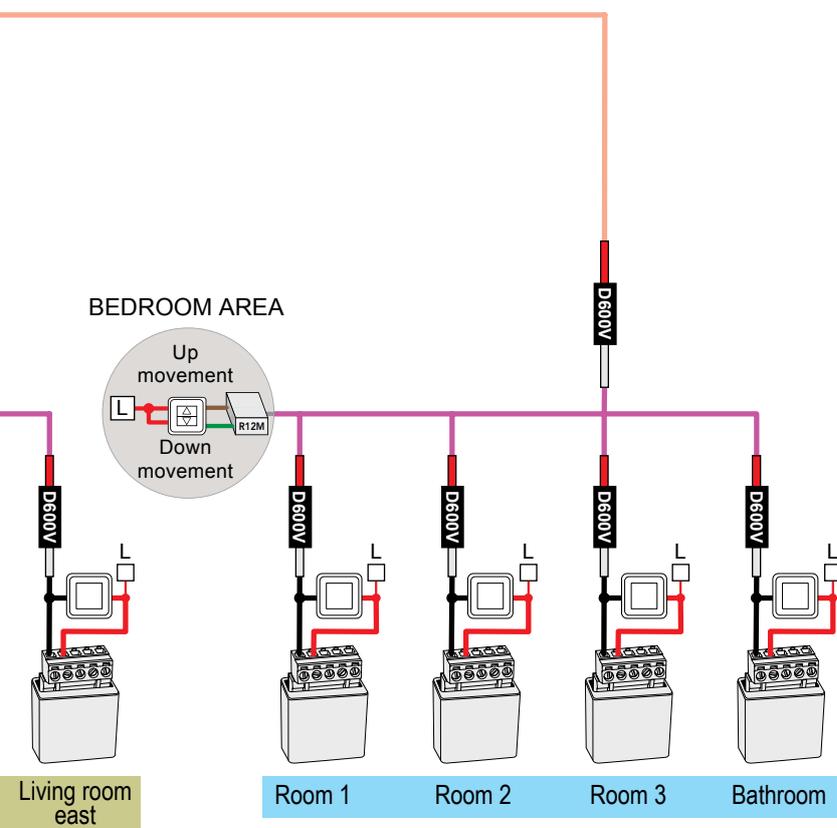
WHOLE HOUSE

TOTAL LIVING AREA

LIVING AREA

LIVING ROOM

B = white wire
M = brown wire
R = red wire
V_1 = green wire

Kitchen   Dining room   Bathroom   Studio   Living room south 1   Living room south 2

SYSTEM DIAGRAMS

> *If, on the module terminal board, the voltage between terminals BP and N is over 20 V, add a D600V diode as close as possible to the module.

Remote control with a single button

addition of a D600V as close as possible to MVR500E *

Local control with a single button

Up movement
Down movement
Remote control with a single button

Up movement
Down movement
Remote control with 2 buttons

addition of a D600V as close as possible to MVR500E *

Up movement
Down movement
Local control with 2 buttons

W = white wire
B = brown wire
R = red wire
G = green wire
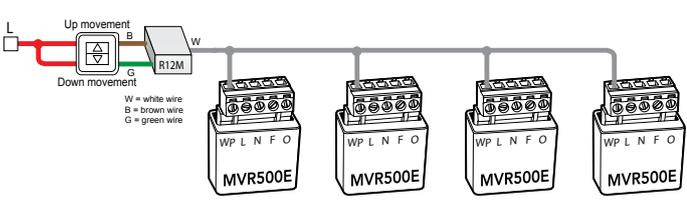
230V
50Hz
N
L

MVR500E

MVR500E

PILOT WIRE

R12M

– Allows converting both upward and downward movement information from a double pushbutton on the same wire.

– Dimensions (mm):
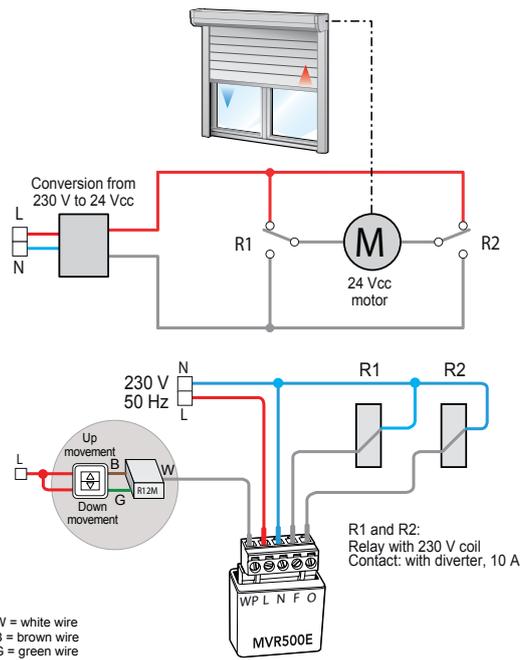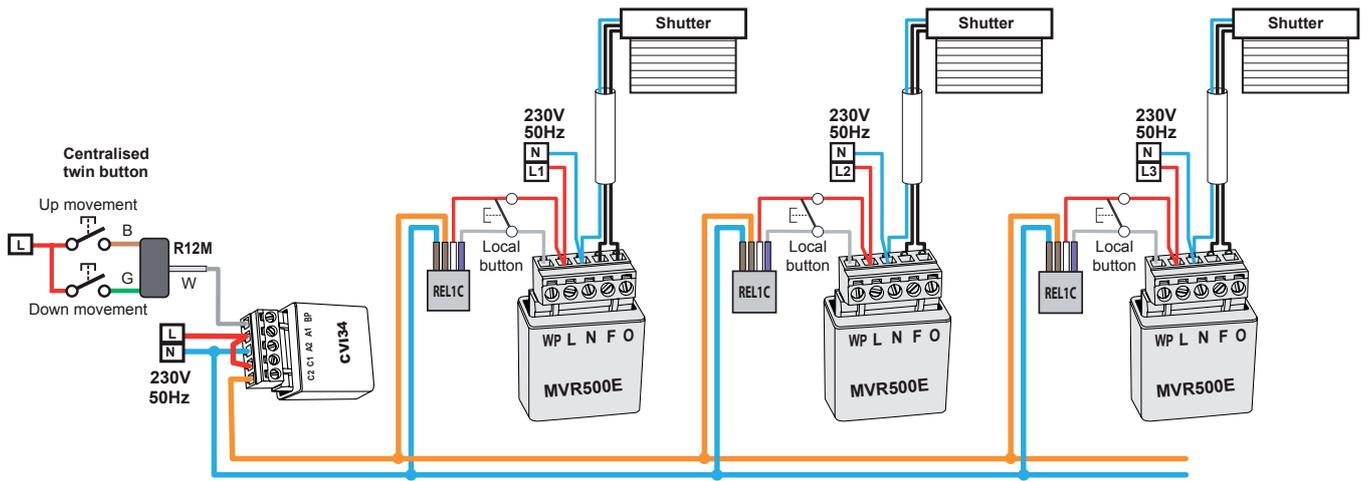 width 10 × height 14 × depth 6

D600V

– Prevents the return to pilot wire of a local control.

BEDROOM AREA

Up movement

L

Down movement

R12M

D600V

D600V

D600V

D600V

D600V

D600V

L

L

L

L

L

Living room east

Room 1

Room 2

Room 3

Bathroom

SD542-0027 CONTROLLING SEVERAL WINDOW SHUTTERS WITH ONE DOUBLE PUSHBUTTON (NOT INTERLOCKED)

L

Up movement

B

W

Down movement

G

R12M

W = white wire
B = brown wire
G = green wire

WP L N F O

MVR500E

WP L N F O

MVR500E

WP L N F O

MVR500E

WP L N F O

MVR500E

SD542-0028 CONTROLLING ONE WINDOW SHUTTER WITH A 24 VDC MOTOR

Conversion from 230 V to 24 Vcc

L

N

R1

M

R2

24 Vcc motor

N

230 V
50 Hz

L

R1

R2

Up movement

B

W

Down movement

G

R12M

L

R1 and R2:
Relay with 230 V coil
Contact: with diverter, 10 A

WP L N F O

MVR500E

W = white wire
B = brown wire
G = green wire

THREE-PHASE: SHUTTER CENTRALISATION WITH REL1C ACCESSORY

W = white wire
B = brown wire
G = green wire

THREE-PHASE: SHUTTER UNIT CENTRALISATION WITH REL1C ACCESSORY

PILOT WIRES
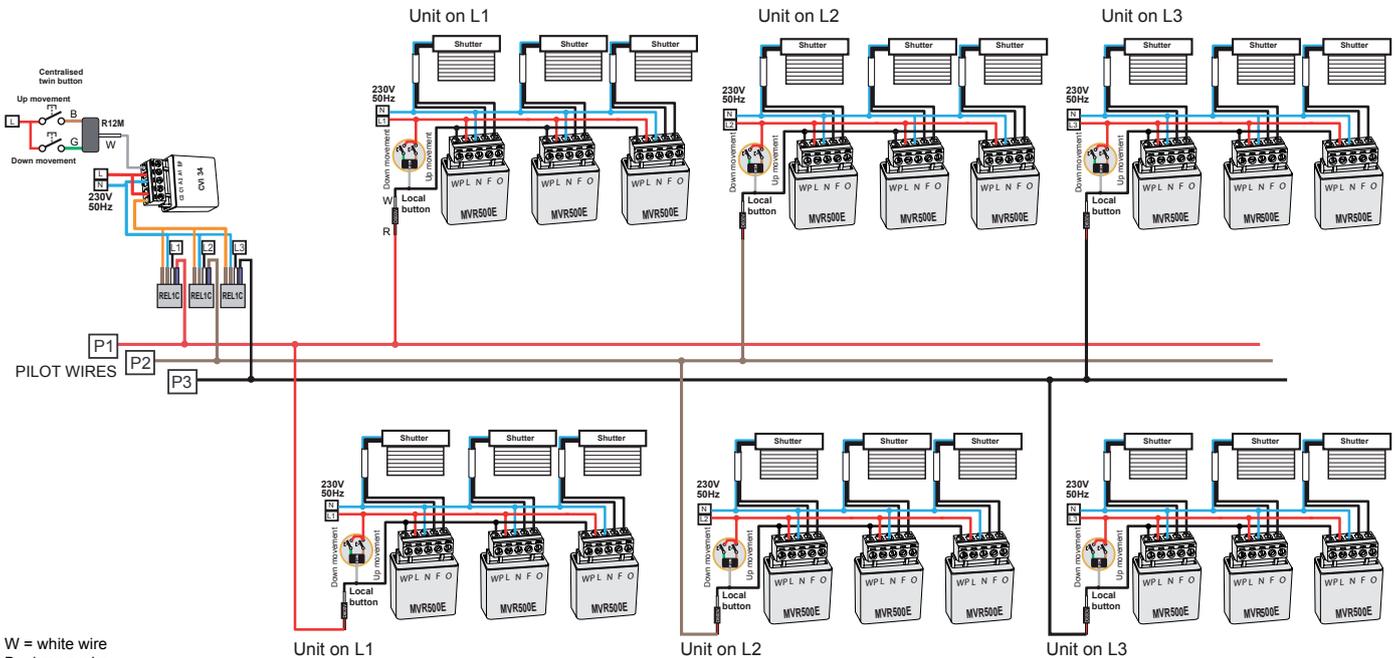
W = white wire
B = brown wire
R = red wire
G = green wire

RADIO: WINDOW SHUTTER MODULE

☑ Compatible loads > page 44 - 71

⬇ TECHNICAL FEATURES
MVR500ERP - MVR500ERPX

Network voltage	230 V~ (+10% -15%) - 50 Hz
Power	3-wire motor
	230 V~, 2 A max. 500 VA
Consumption	< 1 VA - < 0,3W
Ambient temp.	- 20 °C +50 °C
Relative humidity	from 0 to 70%

⬇ TECHNICAL FEATURES
MVR500MRP - MVR500MRPX

Network voltage	230 V~ (+10% -15%) - 50 Hz
Power	Motore 3 o 4 fili
	230 V~, 2 A max. 500 VA
Consumption	0,77 W - 3,2 VA
Ambient temp.	- 20 °C +50 °C
Relative humidity	from 0 to 70%
Test pushbutton	

⬇ RADIO FEATURES

Range:
- In the same room < 100 sq. m
- 250 m in free field without obstacles
(Radio range is reduced by metal items, walls or partitions)

Frequency: 2,4 GHz

Transmission: Two-way with notification LED on transmitter.

⚠ If the LED is not blinking this does not indicate a battery fault, but a failed radio transmission.

Data are saved in case of a power failure.

⬇ MORE...
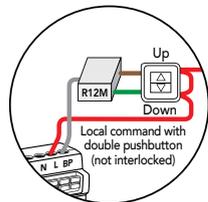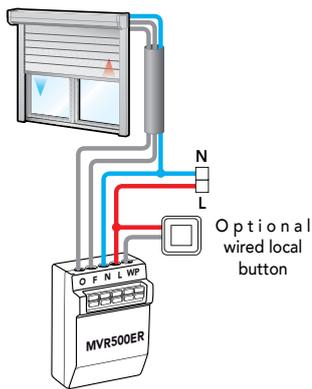
CE   MADE IN EU   **5-year warranty**

Radio Quick Guide Installation > pagina 57

⬇ ITEM NUMBER TABLE

FLUSH-MOUNTED 500 RANGE	Model	Item number	P.
RADIO: window shutter module	MVR500ERP	5454467	19
RADIO: window shutter module with external aerial	MVR500ERPX	5454468	19
RADIO: window shutter module	MVR500MRP	5454469	19
RADIO: window shutter module with external aerial	MVR500MRPX	5454470	19

Dimensions (mm)

Aerial
Cable length: 250 mm
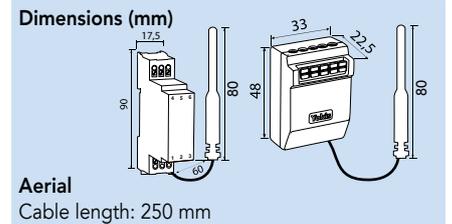
🔗 SYSTEM DIAGRAMS

SD542-0029 COMBINED RADIO AND WIRED WIRING

Optional wired local button

MVR500ER

Up
Down
R12M
Local command with double pushbutton (not interlocked)
N L BP

⬇ EASY CONNECTION

)) **Connection from receiver MVR500ERP with Yokis radio transmitters (direct connection)**

1st step E5

On the transmitter, quickly touch the pushbutton you wish to connect for 5 times. The transmitter LED will start blinking quickly for 30 seconds, indicating that it is waiting for a connection.

2nd step R1

WHILE the transmitter LED is blinking, insert the tip of a pencil in the "connect" hole on the receiver (located on the back of the casing) and press lightly.
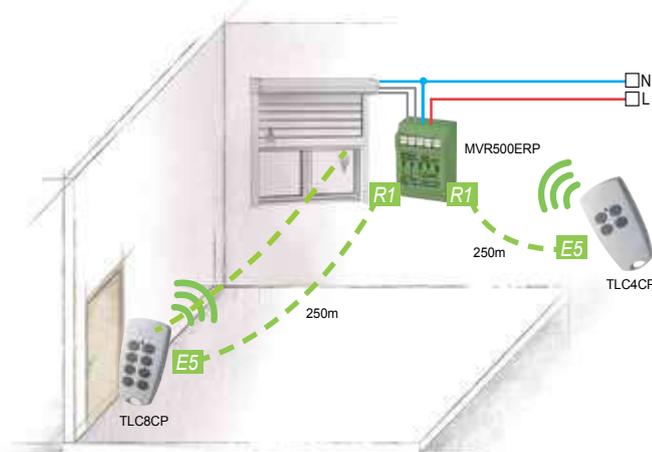
If the connection is successful, the receiver LED blinks once and the transmitter LED stops blinking.

⚠ **Warning! The receiver must be powered.**

SD542-0030 RADIO ONLY WIRING

CAN BE DONE WITH ALL YOKIS TRANSMITTERS
Example: with TLC4CP and 1 TLC8CP

MVR500ERP
R1 R1
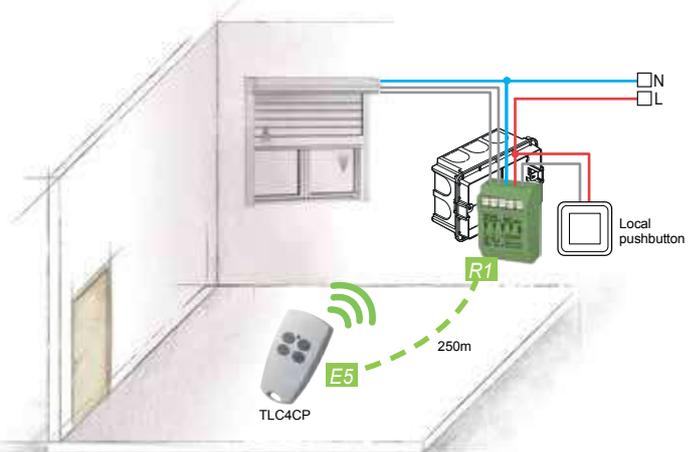250m
E5
TLC4CP
250m
E5
TLC8CP

No more cables to pull with the Yokis local and centralised remote controls.
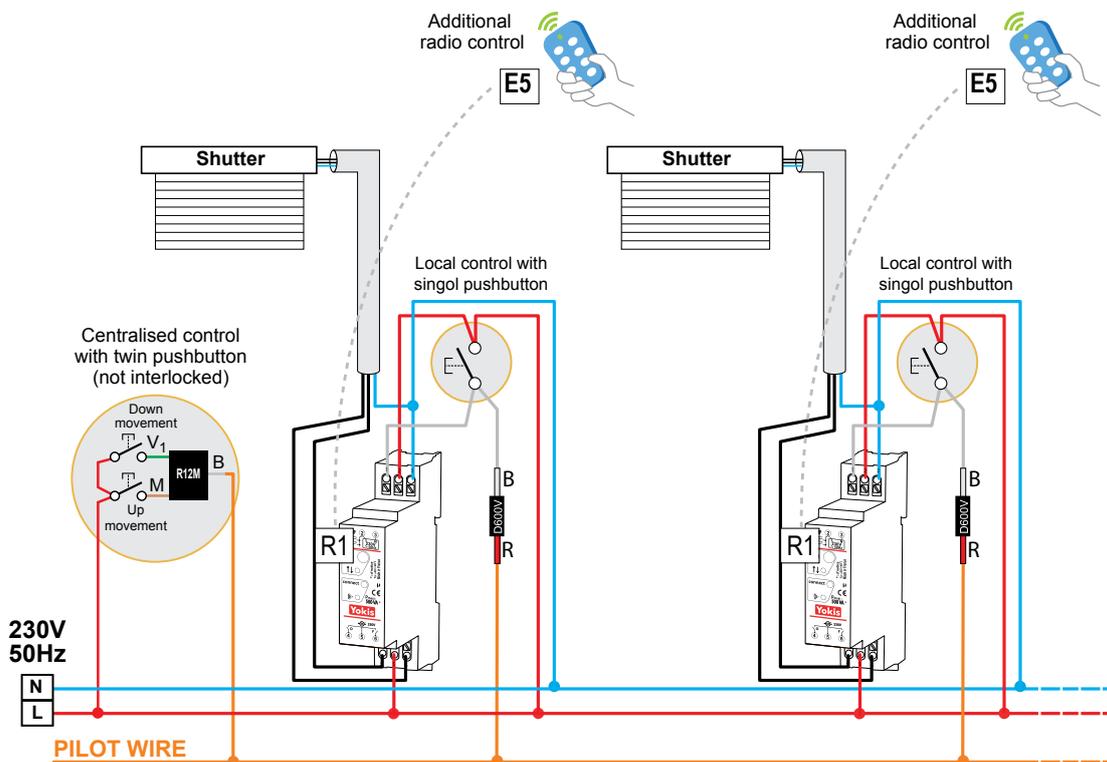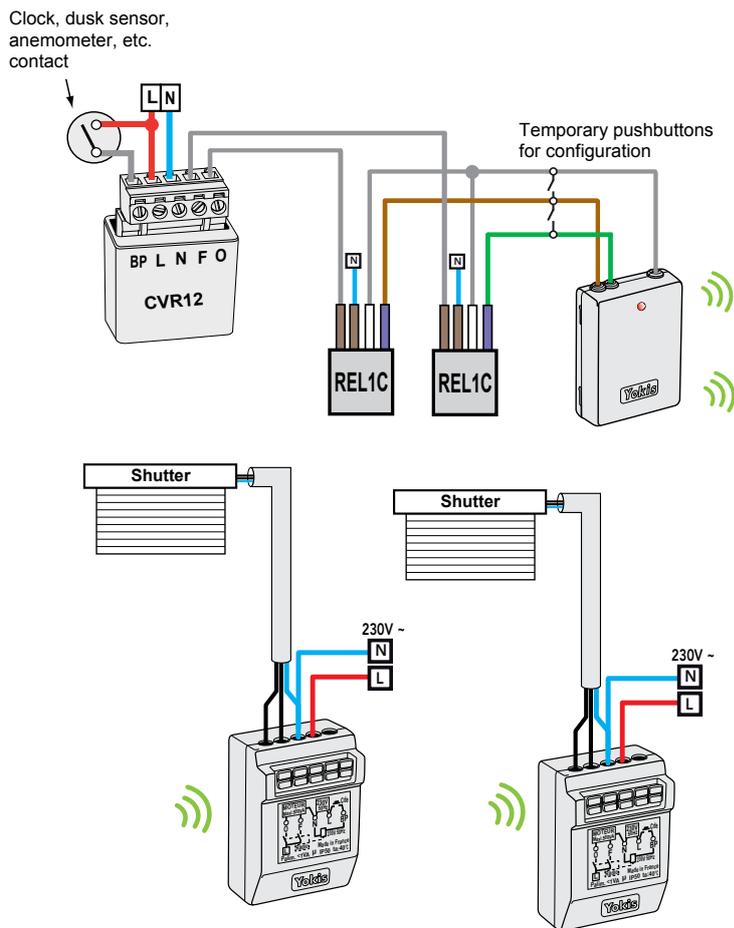
SD542-0031 COMBINED WIRED AND RADIO SYSTEM DIAGRAM

CAN BE DONE WITH ALL YOKIS TRANSMITTERS
Example: with 1 TLC4CP

Local pushbutton
R1
250m
E5
TLC4CP

The shutter can be controlled both through wired button and remote control.

Clock, dusk sensor, anemometer, etc. contact

Temporary pushbuttons for configuration

BP L N F O

CVR12

REL1C **REL1C**

Shutter

Shutter

230V ~ **N** **L**

230V ~ **N** **L**

Additional radio control

E5

Additional radio control

E5

Shutter

Shutter

Local control with singol pushbutton

Local control with singol pushbutton

Centralised control with twin pushbutton (not interlocked)

Down movement

V₁

R12M **B**

M

Up movement

R1

B

R

R1

B

R

230V 50Hz

N

L

PILOT WIRE

⚠ Compatible also with local double pushbuttons (not interlocked), using R12M converters.

SD542-2010 — CENTRALISATION OF 500 RANGE AND OF 2000 RANGE (WIRED AND RADIO) ON THE SAME PILOT WIRE

DRIVER WIRE 2000

Double pushbutton (not interlocked)

Local pushbutton

Lighting circuit No.1 — Lighting circuit No.2 — Lighting circuit No.3 — Lighting circuit No.n

DRIVER WIRE 500

Local pushbutton

Lighting circuit No.1 — Lighting circuit No.2 — Lighting circuit No.n

◄— 2000 RANGE —► ◄— 500 RANGE —►

B = white wire
M = brown wire
R = red wire
V_1 = green wire
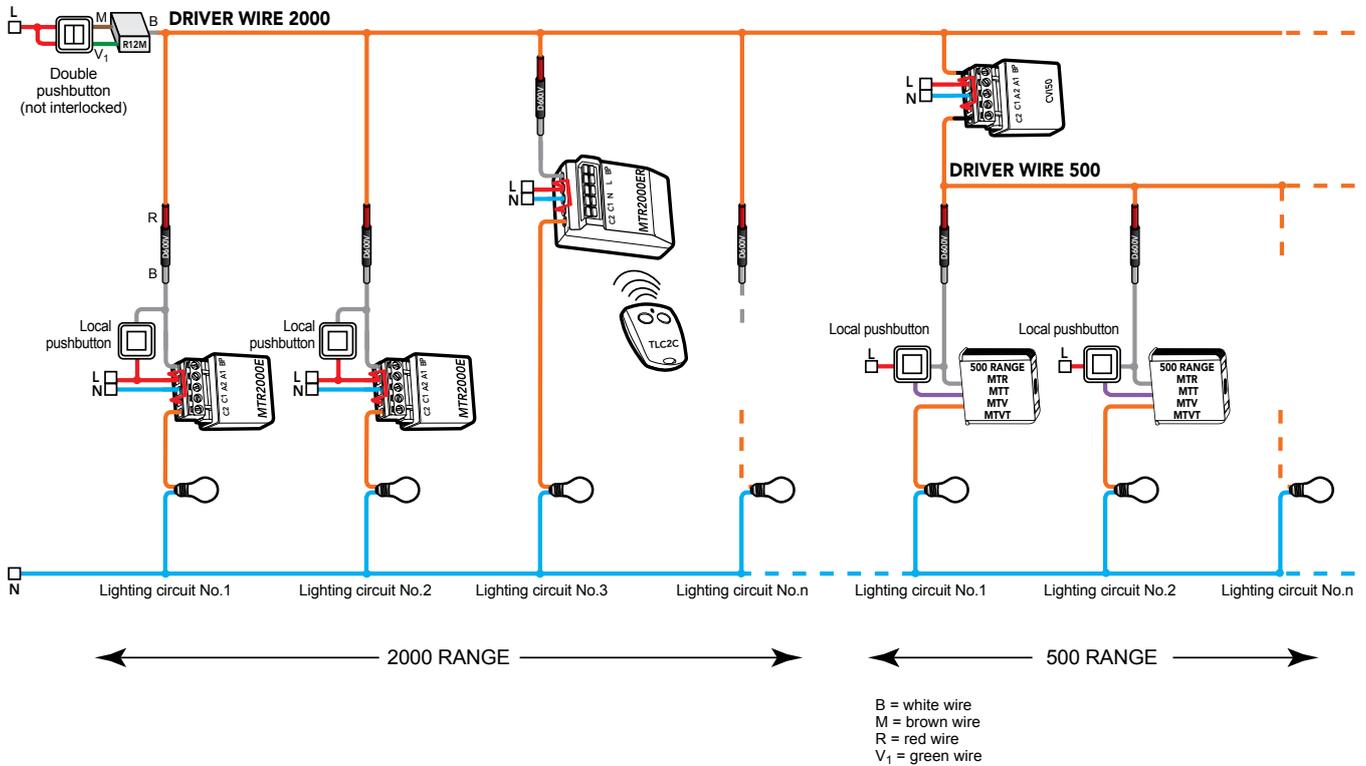
SD542-6302 — ADDING RADIO PILOTING TO A CENTRALISATION WITH PILOT WIRE

BP local

Local control with twin button

Up movement

Down movement

PILOT WIRES

MVR500E

Right button

Left button

W = white wire
B = brown wire
R = red wire
G = green wire
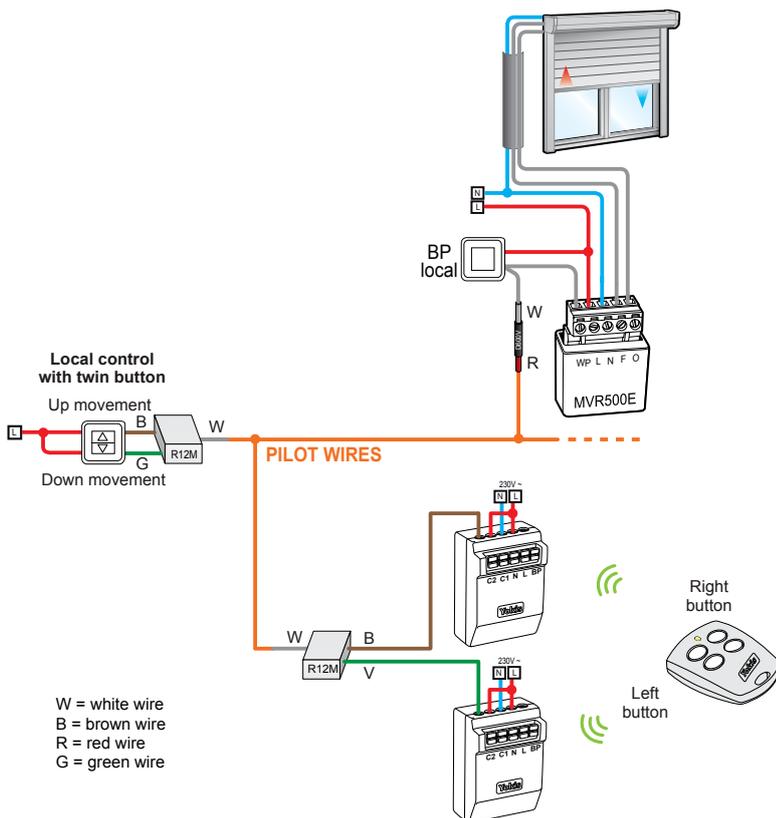
CONFIGURATION IN PULSE MODE

> On transmitter:
1. Access the Configuration Menu: 10 short presses.
2. Switch to pulse mode: 16 short presses.
The receiver will operate with a 0.5 second contact pulse.

⬇ RADIO FEATURES

Range:
- In the same room < 100 sq. m
- 250 m in free field without obstacles

(Range is reduced by metal items, walls or partitions)

Frequency: 2,4 GHz

Transmission: Two-way with notification LED on transmitter.

⚠ If the LED is not blinking this does not indicate a battery fault, but a failed radio transmission.

Battery: CR2032 lithium

Battery medium duration: 5 years

The battery can be replaced by opening the case with a flat-head screwdriver.
All data is saved.

⬇ TECHNICAL FEATURES

Max number of receivers per channel	
- direct mode	4
- "Radio bus" mode	unlimited
Operating temperature	-10 °C +50 °C
Protection	IP54
Relative humidity	maximum 70%

Dimensions (mm)

28,5 11,5 40

E2BPP
E4BPP

28,5 11,5 40 80
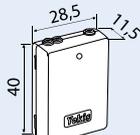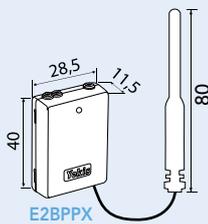
E2BPPX
E4BPPX

Aerial
Cable length: 250 mm

40 74 15

TLC4CP

40 74 15

TLC8CP

80 80 18
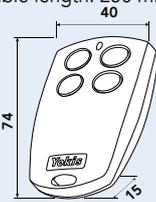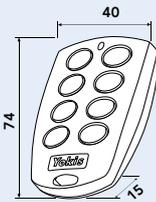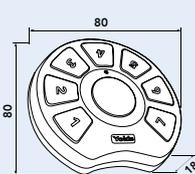
GALET8TP
GALETBOISP

80 80 9
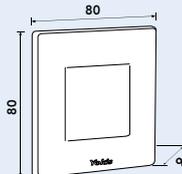
TLM1T45
TLM2T45
TLM4T45

⬇ MORE...

CE MADE IN EU **5-year warranty**

⬇ ITEM NUMBER TABLE

Description	Model	Item number	Page
2-channel transmitter for pushbuttons, flush-mounted	E2BPP	5454413	21
2-channel transmitter for pushbuttons, flush-mounted with external aerial	E2BPPX	5454414	21
4-channel transmitter for pushbuttons, flush-mounted	E4BPP	5454427	21
4-channel transmitter for pushbuttons, flush-mounted with external aerial	E4BPPX	5454428	21
4-pushbutton remote control	TLC4CP	5454425	21
8-pushbutton remote control	TLC8CP	5454423	21
Support for TLC4CP / TLC8CP remote controls	SUPPORT TLC	5454082	21
8-pushbutton flat remote control	GALET8TP	5454424	21
8-pushbutton deluxe flat remote control	GALETBOISP	5454426	21
Wall-mounted 1-pushbutton remote control	TLM1T45	5454417	21
Wall-mounted 2-pushbutton remote control	TLM2T45	5454419	21
Wall-mounted 4-pushbutton remote control	TLM4T45	5454421	21

SD542-0032 WIRING PRINCIPLE

On all transmitters, the LED comes on only if the radio transmission was successful.

E2BPP / E2BPPX   E4BPP / E4BPPX
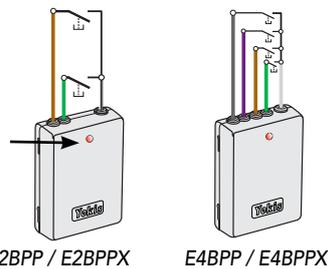
Using both channels is not necessary. It is possible to use a single channel with one pushbutton.

With MTR2000ERP receivers, it is also possible to use switches rather than pushbuttons.

⬇ EASY CONNECTION

)) **Connection of transmitters with Yokis radio receivers (direct connection)**
Warning! The receiver must be powered.

1st step E5

On the transmitter, quickly touch the pushbutton you wish to connect for 5 times. The transmitter LED will start blinking quickly for 30 seconds, indicating that it is waiting for a connection.

2nd step R1

WHILE the transmitter LED is blinking, insert the tip of a pencil in the "connect" hole on the receiver (located on the back of the casing) and press lightly.

If the connection is successful, the receiver LED blinks once and the transmitter LED stops blinking.

IMPORTANT

> With the MTR2000ERP(X) and the MTR2000MRP(X) modules, the E2BPP(X) and the E4BPP(X) transmitters can be wired behind a pushbutton or a switch:

⚠ **WARNING, program the transmitter in "instant" mode before connecting it to the switch.**

> Every pushbutton can control up to 4 receivers in direct mode.

> In Radio bus mode, every pushbutton can control an unlimited number of receivers, as long as the receivers are interconnected.

> It is not possible to use pushbuttons equipped with light indicators.

SAFETY AT HOME

Yokis radio modules produce radiation **10,000 times weaker than that of a mobile phone.**

Radio Quick Installation Guide

All you
need
to know

TABLE OF CONTENTS

A | RECEIVER/TRANSMITTER CONNECTION DIRECT MODE

To control one or more receivers with a transmitter pushbutton, a logic "connection" must be established between transmitter and receiver(s). Once this connection has been established, the transmitter LED will blink once when the pushbutton is pressed (when the "pushbutton pressed" command is transmitted) and will blink a second time when the pushbutton is released (when the "pushbutton released" command is transmitted"). The control is identical to that of a wired pushbutton. Thus, the receiver can be configured with configuration touches as if this action was being performed on the wired pushbutton of the receiver.

Each transmitter pushbutton can control up to 4 receivers in direct mode. If several receivers are memorised on the same pushbutton, the control is centralised: all connected receivers are controlled simultaneously.

In this case, the LED will blink only when the pushbutton is pressed (and will not blink when it is released). Moreover, the LED only blinks if the radio transmission is correct. This means that, if the LED does not blink, it is necessary to verify that all receivers connected to this pushbutton are within the range of the radio control (i.e., in the same room having a maximum surface area of 100 sq. metres). Some of the receivers memorised on one pushbutton may no longer exist or may have been replaced. In this case, apply 21 short touches on the transmitter pushbutton to delete the incorrect radio connections (WARNING: carry out this operation when all receivers are within the range of the transmitter, otherwise they will be deleted).
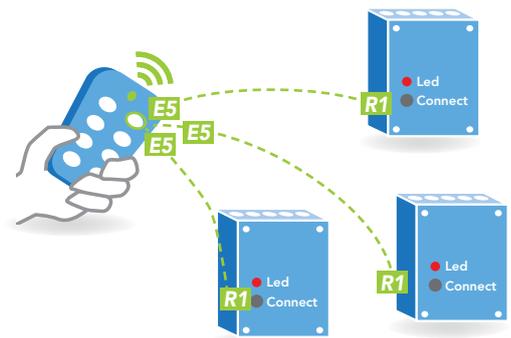
A-1 | CONNECTING A TRANSMITTER TO A RECEIVER

Apply 5 short touches on the transmitter pushbutton E5 then, while its LED blinks, press "connect" on the receiver R1.

Note: to connect another receiver to the same pushbutton, repeat the above procedure (up to 4 receivers per pushbutton).

A-1a   Connecting the pushbutton of a transmitter to a receiver

Possible with all Yokis transmitters
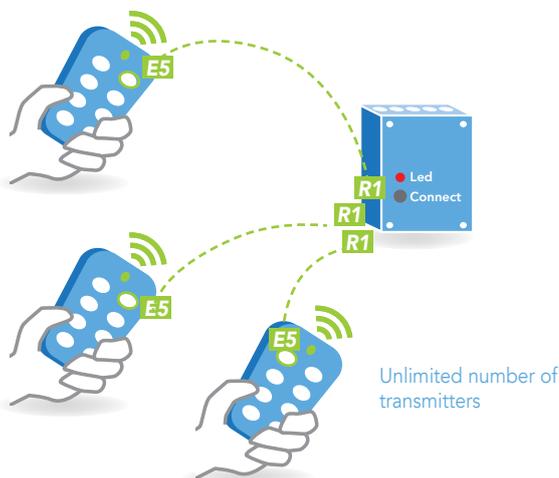
Possible with all Yokis receivers

A-1b   Connecting the pushbutton of a transmitter to three receivers

The receivers will be controlled simultaneously. Maximum 4 receivers. Unlimited number with "Radio bus" (see § B-1)

A-1c   Connecting several transmitters to the same receiver

Unlimited number of transmitters

| A-2 | TESTING THE CORRECT CONNECTION OF A TRANSMITTER TO A RECEIVER |

Press the transmitter pushbutton once to control the receiver. The LED on the transmitter and on the receiver will blink to confirm that the radio transmission was successful. The LED will blink a first time when the pushbutton is pressed and a second time when the pushbutton is released. If the LED does not blink, the transmitter and the receiver may be too distant; step closer to the receiver until the LED blinks. If the LED still does not blink, apply 21 short touches on the pushbutton of the transmitter to delete any wrong radio connections.

⚠ WARNING: the radio range may be reduced and/or the modules may not work correctly due to the presence of metallic elements near the transmitters or receivers and with radio interferences caused by GSM aerials or transmitters using 2.4 GHz frequencies.

A-2a LED blinking when a receiver is controlled with a transmitter pushbutton

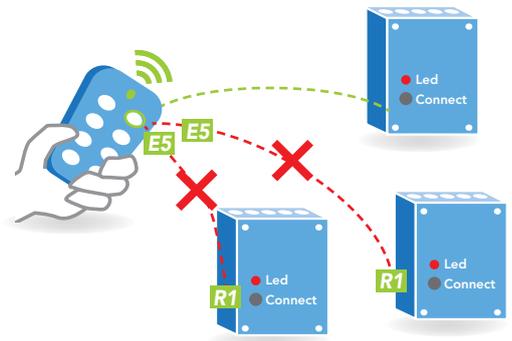| A-3 | DISCONNECTING A TRANSMITTER FROM A RECEIVER |

Apply 5 short touches on the transmitter pushbutton **E5** then, while the LED blinks, press "connect" on the receiver **R1**.

Note: The procedure is identical to the connection procedure.

A-3a Disconnecting the pushbutton of a transmitter from a receiver

A-3b Disconnecting the pushbutton of a transmitter from 2 out of 3 receivers. Only one out of 3 receivers remains connected
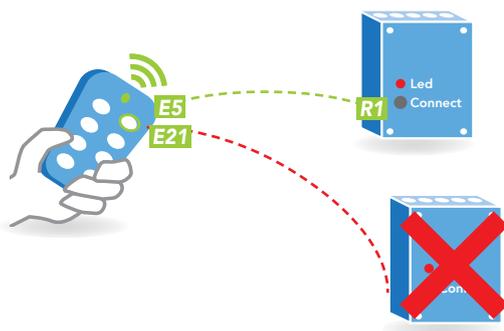

| A-4 | REPLACING A RECEIVER |

Apply 5 short touches on the transmitter pushbutton **E5** then, while the LED blinks, press "connect" on the new receiver **R1**.

Apply 21 short touches on the transmitter pushbutton **E21** to delete the connection with the old receiver.

A-4a Replacing a receiver with a new one

RADIO BUS – MANUAL SETTING

It is possible to connect an unlimited number of receivers defining a "Radio bus". This allows:
• centralising by radio the control of all lights or all window shutters (without the need to wire the pilot wire)
• transmitting a control from a transmitter to a receiver out of its direct range, thanks to the help of other receivers used as "radio links"
• sending controls to "Groups" of receivers belonging to the Radio Bus.

Only Yokis Radio codes are compatible with Radio Bus mode.

Window shutter controls can also be transmitted through the lighting modules, and vice versa. For more information, please visit www.yokis.com website.

The Radio Bus can be automatically set with the new Yokis Pro App and Yokey USB key, or in manual mode, following the 5 steps below:

STEP 1 — SETTING RECEIVER MODULES

(If the operation is carried out on a bench, we recommend marking each receiver with a number, so that they can be installed in the system in the pre-set order)
1) Apply a short press on the first module using the tip of a pencil (or any other sharp object) in the "connect" hole (MTV500ER module has a tab instead of the hole). The LED at the side will flash while waiting for a connection (the search flash ends after 30 sec.).
2) While the LED is blinking, press "connect" on receiver 2.
To confirm the connection, the LED on receiver 2 blinks once and the LED on receiver 1 stops blinking; when the connection is established the relays on the two receivers switch once.

The connection of the other receivers is performed in the same manner, by pairing receiver 2 to receiver 3, receiver 3 to receiver 4 and so on, repeating operations 1 and 2.

Note: The connection must not necessarily follow a linear pattern: all types of interconnections are described on page 62 of Radio Module In-depth Analysis).

STEP 2 — CONNECTING THE TRANSMITTER PUSHBUTTON TO THE CLOSEST RECEIVER

(We recommend connecting the transmitter to the closest receiver, to prevent range issues)
1) Apply 5 short presses on the transmitter pushbutton selected for the centralised control.
2) While the transmitter LED is flashing, apply a short press on the "connect" pushbutton of the receiver.

Note: Since E2BPP(X) e E4BPP(X) flush-mounted transmitters are not equipped with pushbuttons, they are associated to the receivers (and are programmed) by carrying out short pulses between the common wire (WHITE) and the coloured wire of the selected channel. For these procedures, it is very handy to use a pushbutton of any series wired to the transmitter

STEP 3 — PROGRAMMING "RADIO BUS MODE" ON TRANSMITTER PUSHBUTTON

Now the pushbutton just connected operates in "direct mode" (i.e. it only controls the paired module), therefore the following programming must be carried out to make the control work on all modules of the Radio Bus:
1) Make 10 short presses on the transmitter pushbutton (Configuration menu). The transmitter LED will flash quickly.
2) As the LED flashes, make 6 short presses on the selected pushbutton.
3) At the end of the presses, the LED will flash 6 times to confirm the configuration.

STEP 4 — DEFINING IF CENTRALISATION APPLIES TO: LIGHTS (DEFAULT), WINDOW SHUTTERS OR "LIGHTS AND SHUTTERS"

By default the centralised pushbutton operates on lighting modules (MTR2000ERP(X), MTR2000MRP(X) and MTV500ER). If the Radio Bus has been made with these modules only, centralisation is already enabled (skip this Step).
Instead, if the centralised control must pilot window shutter modules MVR500ERP(X) and MVR500MRP(X), or lights and shutters* at the same time, you have to:
1) Make 10 short presses on a transmitter pushbutton (Configuration menu). The transmitter LED will blink quickly.
2) While the LED is flashing, make 11 presses (for window shutters) or 20 presses (lights and shutters*) on the selected pushbutton.
3) At the end of the presses, the LED will flash once (for shutters) or 20 times (lights and shutters*) to confirm the configuration.
*Version 5 modules only

STEP 5 — (OPTIONAL) DEFINING THE PUSHBUTTON FUNCTION

It is possible to provide a further programming to the centralised control to obtain a particular function (e.g. make the shutter perform down movement and stop only, or make lights switch-off only, etc.).
All transmitter functions can be programmed by switching to configuration mode with 10 short presses and applying the number of presses indicated in the configuration summary table (on page 68) to the pushbutton.

IMPORTANT NOTES
Contrary to the direct mode, the Radio BUS depends on the 50Hz frequency of 230Vac power supply of the receivers. Therefore, if the receivers are connected to different phases or if phase inversion occurs even on one receiver only, then a delay in the ms order is introduced so that the receivers do not work at all or work in anomalous way: they flash before switching on/off, one (or several) receivers remain on/off, etc.
To solve this issue, simply connect the receivers to the same phase by respecting phase/neutral polarity.

B — "RADIO BUS" MODE

It is possible to connect an unlimited number of receivers defining a "Radio bus". This allows:
-        sending controls to "Groups" of receivers belonging to the "Radio bus" (see § C);
-        transmitting a control from a transmitter to a receiver out of its direct range (see § E);
-        centralise the control of all lights or all window shutters (see § F).

All receivers (MTR2000ERP - MTV500ER - MVR500ERP) are compatible with the "Radio bus".
Window shutter controls can also be transmitted through the lighting modules, and viceversa.
Connections are bi-directional and can be organised in a linear, star or mesh network.

B-1   CONNECTING TWO RECEIVERS TO DEFINE THE "RADIO BUS"

Apply one short touch on "connect" on receiver 1. Its LED starts blinking. **R1**
While the LED is blinking, press "connect" on receiver 2. **R1**
To confirm the connection, the LED on receiver 2 blinks once and the LED on receiver 1 stops blinking; when the connection is established the relays on the two receivers switch once.

Note: during this phase, the range of each device is half its normal value, so as to guarantee the correct future operation of the "Radio bus".

B-1a   Radio bus between four receivers

Possible with all Yokis receivers

Unlimited number of receivers on Radio bus
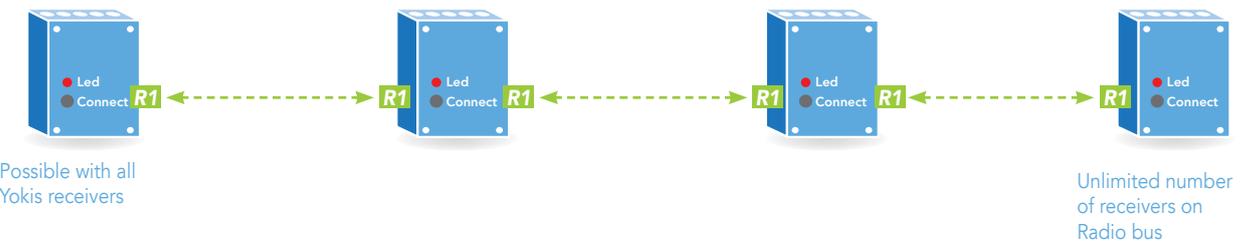
B-2   DISCONNECTING TWO SPECIFIC RECEIVERS

Apply 6 short touches on "connect" on receiver 1 **R6**
and when the LED blinks 6 times, press on "connect" on receiver 2 **R1**

B-2a   Eliminating a connection

B-3   ELIMINATING ALL CONNECTIONS OF A SPECIFIC RECEIVER

Press "connect" for over 3 seconds on the receiver you wish to completely "disconnect" from the "radio bus". The LED blinks once and all connections with the receiver are deleted. If necessary, repeat on other receivers.

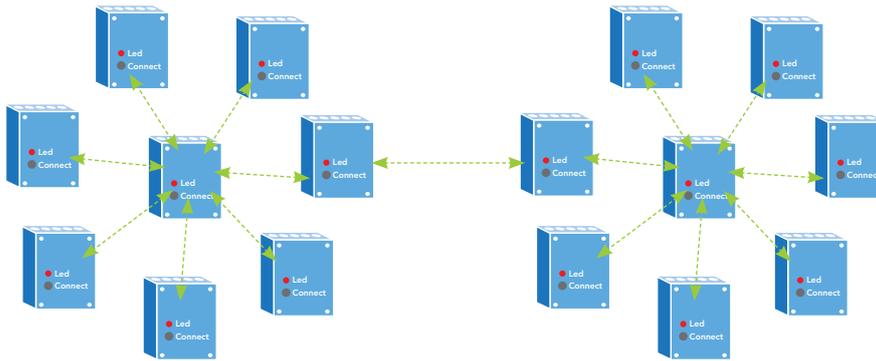**B-3a   Eliminating all connections of all receivers**

Unlimited number of receivers on Radio bus. All receivers are compatible with each other
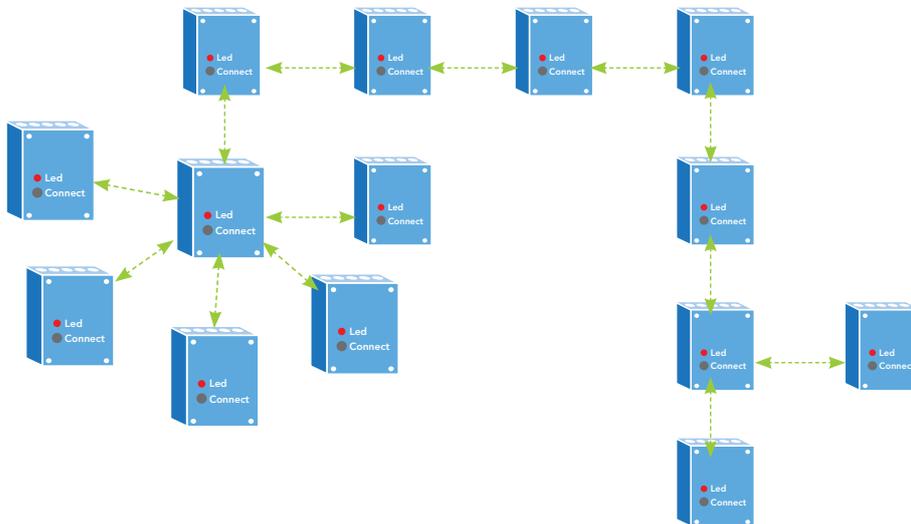
B-4a   **Linear connections (unlimited number)**

B-4b   **Star connections: unlimited number of interconnected stars, up to 7 connections on a single receiver**

B-4c   **Mixed connections (unlimited number)**

C

GROUPS of receivers
on "Radio bus"

Once the "Radio bus" has been defined as illustrated in § B, a few receivers can be "grouped" together so that they respond simultaneously to certain commands.

For instance, if 5 lighting receivers have been interconnected on the "Radio bus", it is possible to define a group made of 3 receivers and a group made with the remaining two. In this way, certain controls will switch on simultaneously the first three lights, while other controls will switch on simultaneously the remaining two lights.

Any command received from a receiver that is part of one group is automatically transmitted to all other members of the group through the "Radio bus". This applies not only to radio controls, but also to any controls received from a wired pushbutton connected to one of the receivers in the group.

C-1 · GROUPING SEVERAL RECEIVERS AND CONNECTING ONE PUSHBUTTON TO THE GROUP

To create the Group:
Apply 4 short touches on the "connect" pushbutton on receiver 1: the LED blinks quickly 4 times `R4`.
Then, quickly press "connect" once on receiver 2 `R1`.
The LEDS on both receivers will blink 4 times and the relevant relays will be switched. Now the two receivers are part of the same group.
Repeat the same procedure to add other receivers to the group.

To add a transmitter pushbutton to the Group:
Apply 5 short touches on the transmitter pushbutton `E5`
then, while its LED blinks, press "connect" on any receiver in the group (usually the one closest to the transmitter). `R1`

Repeat the same procedure to connect other pushbuttons.
Note: the Group creation procedure automatically creates a "Radio bus" if this was not previously created.

C-1a   Grouping 2 receivers and connecting one pushbutton to the group

Possible with all Yokis transmitters

Possible with all Yokis receivers

It is possible to group an unlimited number of receivers
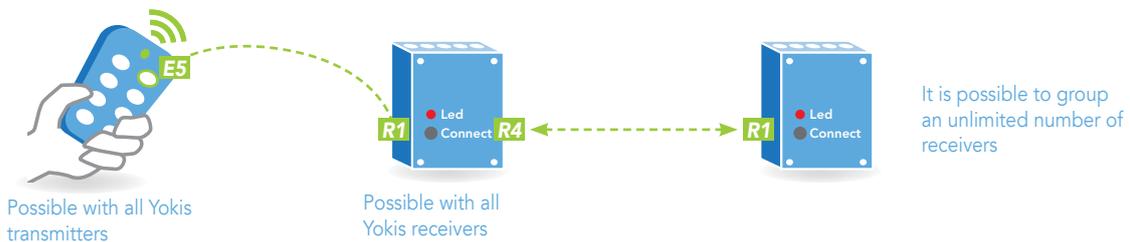
C-1b   Grouping 3 receivers and connecting 2 pushbuttons to the group

Several transmitters, connected to different receivers of the same Group, allow controlling simultaneously all receivers in the Group
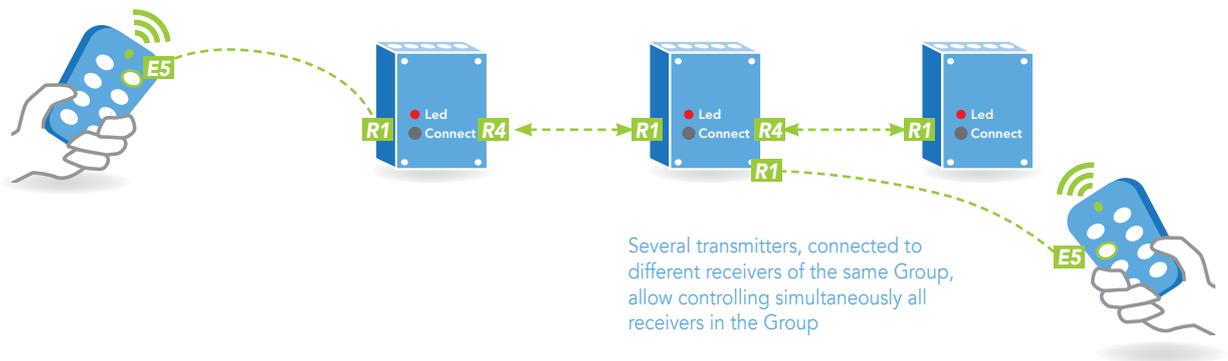
C-1c   A battery-less transmitter can be used to control a group of receivers.

The local control of the wired pushbutton is sent to all receivers in the Group.

Unlimited number of receivers.
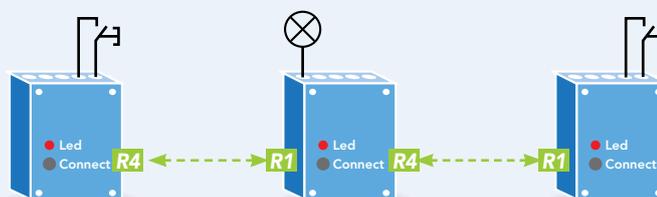
D Pushbutton and transmitter DUPLICATION

D-1 DUPLICATION OF ONE PUSHBUTTON (FIRST CONNECTION ONLY)

Apply 5 short touches on the new pushbutton **E5**.
While the LED blinks, press for over 3 seconds the pushbutton you wish to duplicate **>3"**.
The LED will blink once to confirm duplication.

This operation can be performed between two pushbuttons on the same transmitter, as well as between two pushbuttons on different transmitters.
Warning: if the pushbutton you wish to duplicate was programmed with several connections, the duplication will take into account only the first connection.
Moreover, the new pushbutton will be configured as a toggle (function no. 1), regardless of the function of the original pushbutton.

D-1a **Duplication of one pushbutton on the same transmitter**   **D-1b** **Duplication of one pushbutton on another transmitter**

Possible with all Yokis transmitters

New transmitter   Current transmitter

D-2 DUPLICATION OF ONE PUSHBUTTON BETWEEN TWO TRANSMITTERS (ALL CONNECTIONS)

On the new transmitter:
Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks, apply 12 short touches on the desired pushbutton **12**. The LED blinks while waiting for the duplication process to complete (approximately 30 seconds).

On the original transmitter:
Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**). The transmitter LED will blink quickly.
As the LED blinks, apply 13 short touches on the pushbutton you wish to duplicate **13**. The LED blinks during data transfer, then turns off.

This can be done with two pushbuttons on different transmitters.
Warning: if the pushbutton you wish to duplicate was programmed with several connections, the duplication will take into account all connections. The new pushbutton will be configured as a toggle (function no. 1), regardless of the function of the original pushbutton.

D-3 DUPLICATION OF ONE TRANSMITTER

On the new transmitter:
Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks,
apply 14 short touches on any pushbutton **14**.
The LED blinks while waiting for the duplication process to complete (approximately 30 seconds).

On the existing transmitter:
Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.

As the LED blinks,
apply 14 short touches on any pushbutton **14**.
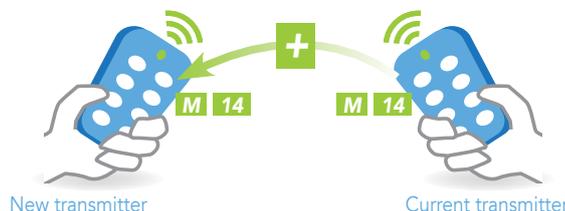The LED blinks while waiting for the duplication process to complete (approximately 1 second).

Possible with all Yokis transmitters

New transmitter   Current transmitter

E | Range extension with "RADIO BUS"

If the receiver is out of the transmitter's range, it is possible to place intermediate additional receivers between the transmitter and the receiver. With the interconnection of receivers allowed by the "Radio bus", the transmitter will reach and control the receiver.
First, it is necessary to establish a connection between the transmitter and the out-of-range receiver that you wish to control (see § A-1).
Then, create a "Radio bus" between all receivers (see § B-1 creation of a "Radio bus"). Finally, define any receiver on the "Radio bus" as the access point for the transmitter: through the receiver, the transmitter will send its control over the "Radio bus".
To sum up, the transmitter tries to communicate directly with the receiver, but in case this is not possible, it goes through its access point on the "Radio bus", thus reaching the receiver indirectly.

E-1 | DEFINITION OF AN "ACCESS POINT" TO THE "RADIO BUS"

Apply 7 short touches on any transmitter pushbutton `E7`.
The LED will blink slowly (every second).
As the LED blinks, press "connect" on the receiver that will act as access point `R1`
(use the receiver that is closest to the transmitter).

Up to 8 access point per transmitter are allowed.

E-1a Range extension with the addition of one receiver

- Connect the transmitter pushbutton to the receiver you wish to control `E5` `R1` see § A-1a
- Interconnect the two receivers via "Radio bus", `R1` `R1` see § B
- Define the new intermediate receiver as access point `E7` `R1`.
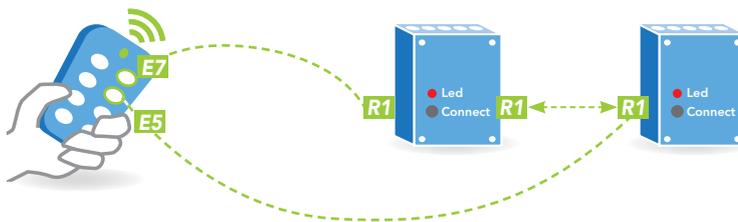
E-1b Definition of an access point to send three controls via "Radio bus" to three receivers

In this example, the following configurations have already been implemented:

- Connections between three transmitter pushbuttons and three receivers `E5` `R1` see § A-1a
- Receiver interconnection on "Radio bus", `R1` `R1` see § B.

Previously established connections between transmitter pushbuttons and receivers to be controlled (see § A-1a)

Receiver set as access point
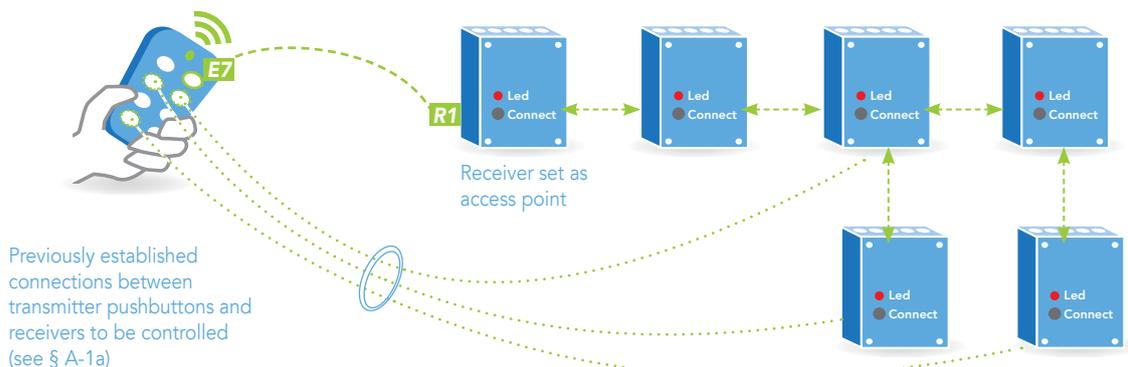
E-2 | DELETING THE "ACCESS POINTS" ON A TRANSMITTER

Apply 10 short touches on any pushbutton on the transmitter (Configuration menu `M`).
The transmitter LED will blink quickly.

As the LED blinks,
apply 24 short touches on any pushbutton `24`.
The LED blinks 4 times to confirm deletion of all access points.

F — Centralised control on "Radio bus"

To create a centralisation:
- group the receivers together by creating a "Radio bus" (see § B-1);
- connect the transmitter pushbutton to the closest receiver (see § A-1);
- configure the pushbutton to send a centralised control (§ F-1).
- for window shutter centralisation, indicate that the centralised control is for window shutters (§ F-2), otherwise it will control lighting by default.
- Specify the function of the centralised pushbutton: toggle, on, off, up, down, memory, intermediate position (see § G-1)

The "Radio bus" will then forward the control to all interconnected receivers.

F-1 — CONFIGURATION OF ONE PUSHBUTTON OF THE TRANSMITTER FOR ONE CENTRALISED CONTROL

Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks, apply 6 short touches on the pushbutton you wish to configure **6** .
The LED blinks 6 times to confirm pushbutton centralised mode.

F-1a   Centralised control of three receivers

The transmitter pushbutton controls all receivers of the same type on the "Radio Bus" (lighting - default - window shutters).

All receivers will be controlled simultaneously.

F-2 — WINDOW SHUTTER CENTRALISATION SETTING

After following the procedure in § F-1
apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks,
apply 11 short touches on the pushbutton you wish to configure **11** .
The LED blinks 1 time to confirm that the centralisation will be applied to Window shutter modules.

F-3 — RETURN TO CENTRALISATION FOR LIGHTING (DEFAULT)

Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks,
apply 10 short touches on the pushbutton you wish to configure **10** .
The LED blinks 10 times to confirm that the centralisation will be applied to Lighting modules.

F-4 — RETURN TO PUSHBUTTON DIRECT MODE

Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks,
apply 5 short touches on the pushbutton you wish to configure **5** .
The LED blinks 5 times to confirm pushbutton direct mode.

G | Pushbutton functions

Each transmitter pushbutton can be configured to control one out of four possible functions.
The most common function is no. 1: toggle control. If the control is sent to a receiver for lighting, the lights will be switched on or off every time the pushbutton is pressed. On window shutter receivers, the shutters will move upwards, stop and move downwards.
Three more functions are available: switch-on/upward movement (function no. 3, switch-off/downward movement (function no. 4) or recall of a saved lighting level or window shutter position value (function no. 2). The latter allows to recreate pre-established scenarios.
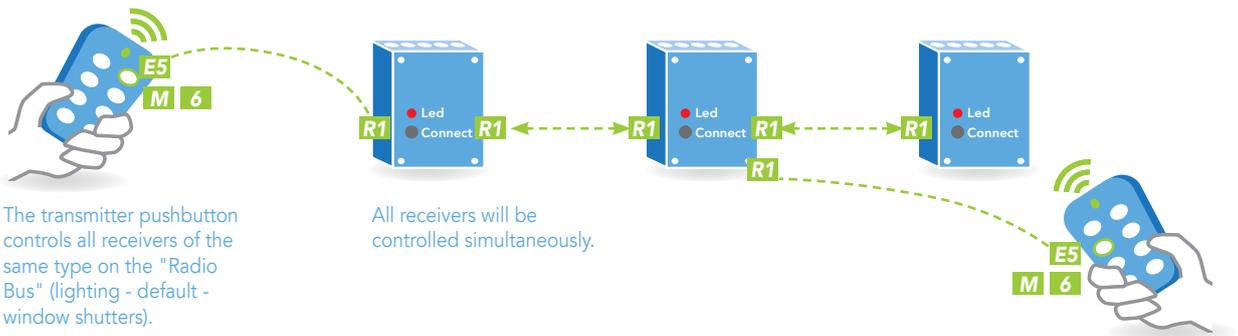
G-1 | CONFIGURATION OF PUSHBUTTON FUNCTIONS

Apply 10 short touches on any pushbutton on the transmitter (Configuration menu M).
The transmitter LED will blink quickly.

As the LED blinks, apply short touches on the pushbutton you wish to configure (see table below).
To confirm pushbutton configuration, the LED blinks as many times as the touches applied.

Number of touches	Configurations
1	Toggle
3	100% lighting (lights)
3	Up / stop (window shutters)
4	Complete switch-off (lights)
4	Down / stop (window shutters)
2	Memory recall (lights)
2	Intermediate position (window shutters)

Note: pushbutton functions can be configured in Direct mode or in "Radio bus" mode.

G-1a **Configuring a transmitter with a pushbutton for window shutter operation, one for stop and one for intermediate position.**

In this example, the following configurations have already been implemented:
- Connections between transmitter and receiver pushbuttons, E5 R1 see § A-1a
- Interconnection of receivers on "Radio bus", R1 R1 see § B.
- Configuration of each transmitter pushbutton as centralised control, M 6 see § F-1 and § F-2.

Unlimited number of receivers
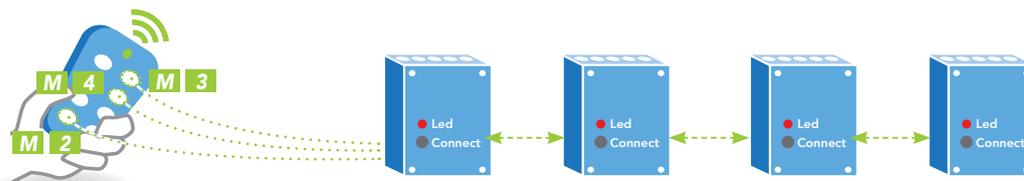
- M 3 Operation pushbutton
- M 4 Stop pushbutton
- M 2 Intermediate position pushbutton

H — Transmitters configuration summary
TLC4CP - TLC8CP - GALETP - E2BPP(X) - E4BPP(X) - TLM1T45 - TLM2T45 - TLM4T45

⚠️ To configure a transmitter, **access the Configuration menu** by applying **10 short touches on any transmitter pushbutton**. The transmitter LED will blink quickly.

As the LED blinks, apply the requested number of short touches on the pushbutton you wish to configure.

Number of touches	Configurations	Confirmation flashes
	Pushbutton functions	
1	On/off or up/stop/down	1
2	Switch-on memory or Intermediate position	2
3	Switch-on or Up/Stop	3
4	Switch-off or Down/Stop	4
	Radio centralisation mode	
5	Direct mode	5
6	"Radio bus" mode	6
	Products controlled on "Radio bus" by a centralised pushbutton	
10	Lighting	10
11	Window shutters	1
20	Window shutter and lighting (function available from transmitters version V5 and later)	20
	Copying all pushbutton connections to a pushbutton on a different transmitter	
14	Complete transmitter duplication	4
15	Reset to pushbutton default settings	5
16	Contact pulse mode (MTR2000ERP only). The receiver generates a 0.5-second pulse	6
17	Contact instant mode (or relay) (MTR2000ERP only) Pressing the transmitter pushbutton activates the receiver.	7
19	Blinking mode (MTR2000ERP and MTV500ER only) Sends a blinking control (0.5 seconds for 30 seconds)	9
24	Access point reset: deletes all access points to the "Radio bus"	4
25	Remote control reset to default settings: restores all default settings on the remote control	5

⚠️ WARNING! With Yokis radio codes, some configurations can be programmed on transmitters and others on receivers (using a wired button).

I Receiver configuration summary

Before setting any configuration, unlock the module with **23 short presses** on a pushbutton connected to BP terminal.
The module will lock automatically after 6 hours, or with 21 presses from local pushbutton.

MODULE FUNCTION CONFIGURATION

MTR2000ERP(X) / MTR2000MRP(X)
RADIO: RELAY WITH OPTIONAL TIMED OPERATION 2000 W RANGE

Number of touches	Configurations
1	On/Off*
11	2 min. timer
12	4 min. timer
13	8 min. timer
14	15 min. timer
15	30 min. timer
16	1 hour timer
17	2 hours timer
18	4 hours timer
19	Unlimited timing
20	Local control from switch
21	Configuration block
22	Blinking mode
23	Configuration release (with automatic reset after 6 hours)
24	Switch-off notification ENABLE/DISABLE: 60 s in minutes mode, 10 s in seconds mode
25	Set duration in seconds
26	Set duration in minutes
27	Timer/Relay mode
28	Status saving in case of power failure
29	ENABLE/DISABLE long duration
30	Reset to default values

MTV500ER
RADIO: DIMMER WITH OPTIONAL TIMED OPERATION 500 W RANGE WITH NEUTRAL

Number of touches	Configurations
1	Lights on/ off memory*
2	100% lighting*
3	50% lighting*
4	Minimum lighting*
6	12-hour long timer*
7	Children's room night light mode*
11	2 minutes timer
12	4 minutes timer
13	8 minutes timer
14	15 minutes timer
15	30 minutes timer
16	1 hour timer
17	2 hours timer
18	4 hours timer
19	Unlimited timing
20	Relay mode (no dimmer functionality)
21	Configuration block
22	Blinking mode
23	Configuration release (with automatic reset after 6 hours)
24	Switch-off notification ENABLE/DISABLE: 60 s in minutes mode, 10 s in seconds mode
25	Set duration in seconds
26	Set duration in minutes
27	Minimum brightness adjustment
28	Reset default minimum brightness
29	100% mode or memory upon first touch
30	Reset to default values
35	Status saving in case of power failure

MVR500ERP(X) / MVR500MRP(X)
RADIO: WINDOW SHUTTER MODULE

Number of touches	Configurations
1	Down - Stop - Up*
2	Intermediate position recall*
3	General opening (for centralisation on three-phase network)*
4	General closing (for centralisation on three-phase network)*
5	Saving current position as intermediate position*
6	Deleting intermediate position*
7	Intermediate position time scheduling*
8	Closing time scheduling*
9	Opening time scheduling*
10	Delete schedules*
12	Definition of lower electronic limit switch
14	Definition of upper electronic limit switch
16	Delete electronic limit switches
17	Cancelling of opposite movement in case of motor overload (toggle)
19	High/low torque
20	Up and down wire logic inversion (toggle)
21	Configuration block
22	Disable daily scheduler (toggle)
23	Configuration release
24	No torque or limit switch control
25	Reset to default values
26	Disable motor torque control (toggle)

* For these configurations the module does not need to be unlocked with 23 presses.

FUNCTION	MODULES													
	500 W LIGHTING								2000 W LIGHTING				WINDOW SHUTTERS	
								RADIO			RADIO			RADIO
	MTR 500	MTM 500	MTT 500	MTC 500E	MTV 500	MTVT 500	MTK 500E	MTV 500ER	MTR 2000	MTM 2000	MTR2000 RADIO	MEP 2000	MVR 500E	MVR500 RADIO
Soft start / Soft stop	•	•	•	•	•	•	•	•						
Pilot wire centralisation	•	•	•	•	•	•	•		•		•		•	•
Radio bus centralisation								•			•			•
Consumption reduced based on light intensity					•	•	•	•						
TIMING FUNCTION														
Timer from 2 seconds to 4 hours		•	•		•	•	•	•	•	•	•			
Possible unlimited duration		•	•		•	•	•	•	•	•	•			
12-hour long duration								•	•	•	•			
1-hour long duration		•	•				•							
Switch-off notification									•	•	•			
Warning with gradual switch-off		•	•			•	•	•						
DIMMER FUNCTION														
Variation					•	•	•	•						
Last switch-on memory					•	•		•						
Preset memory					•	•	•	•						
Minimum brightness configuration					•	•	•	•						
OTHER FUNCTIONS														
Anti-jam function										•				
Configuration block		•	•	•	•	•	•	•	•	•	•	•	•	•
Daily scheduler									•				•	•
Presence simulation								•						
Children's room night light							•	•						

COMPATIBLE LOAD TABLE

	MODULES													
	500 W LIGHTING								2000 W LIGHTING				WINDOW SHUTTERS	
	MTR 500	MTM 500	MTT 500	MTC 500E	MTV 500	MTVT 500	MTK 500E	MTV 500ER (RADIO)	MTR 2000	MTM 2000	MTR2000 RADIO	MEP 2000	MVR 500E	MVR500 RADIO
RESISTIVE LOADS	On / Off				Variation				On / Off				Up / Down	
Power	Min. 3 W Max. 500 W				Min. 3 W Max. 500 W				Max. 2000 W				-	
Lighting with incandescent light bulbs	✔ (2)				✔			✔	✔ 1000 W max				-	-
Lighting with 230 V halogen light bulbs	✔ (2)				✔			✔	✔ 1000 W max				-	-
Radiant heater and convection heater	✔ (2)				✔			✔	✔				-	-
INDUCTIVE LOADS														
Power	Min. 11 VA Max. 500 VA				Min. 11 VA Max. 500 VA				Max. 500 VA				-	
12 V ferromagnetic transformer	✔ (2)				✔			✔	✔				-	-
Toroidal transformer	✔ (2)				✔			✔	✔				-	-
Generic motor, aerator or fan	✔ (2)				✔			✔	✔				-	-
Fluorescent light bulb with ferromagnetic ballast	✗				✗			✗	✔				-	-
Metal iodide lamps	✗				✗			✗	✔				-	-
CAPACITIVE LOADS														
Power	Min max 11VA 500VA				Min max 11VA 500VA				Max 500 VA				-	
Electronic 12 V transformer	✔ (2)				✔			✔	✔				-	-
Standard energy-saving light bulb	✔ (1) (2) (3)				✗			✗	✔				-	-
Dimmable energy-saving light bulb	✔ (1) (2) (3)				✔ (1) (3)			✔ (3)	✔				-	-
Fluorescent lamp with electronic ballast	✔ (1) (2) (3)				✗			✗	✔				-	-
230 V LED lighting	✔ (1) (2) (3)				✔ (1) (3)			✔ (3)	✔				-	-
12 V LED with dimmable converter	✔ (1) (2) (3)				✔ (1) (3)			✔ (3)	✔				-	-
MOTORS														
3-wire 230V motor: up, down and neutral	-				-				-				**500 VA**	**500 VA**
4-wire 230V motor: up, down, phase and neutral	-				-				-				**500 VA**	**500 VA**
2-wire 230V motor: phase and neutral	-				-				-				✗	✗
3-wire 12 V/24 V motor: up, down and neutral	-				-				-				✔ (4)	✔ (4)
Other motors	-				-				-				✗	✗

(1) Include 1 - 3 CHR3W connected in parallel to the load
(2) We recommend using the 2000 range, if the neutral wire is available
(3) Maximum power: 250 VA
(4) See adaptation diagram on www.yokis.com

URMET AND YOKIS
> Smart home solutions

urmet + **Yokis** URMET|GROUP

Home management has never been this easy.

Thanks to the integration between Urmet and Yokis technologies, it is possible to manage centralised controls, shutter and indoor/outdoor light timing as well as some other functions, such as garden irrigation. Accordingly, the lights switched on or the shutters open can be controlled by pressing a pushbutton on the video door phone.

Lighting	Window shutters, screens and blinds	Electric heating	Irrigation	Remote controls	Automatisms

Video door phone
Integrated Urmet monitors

Urmet Max and cxModo monitors contain a transmitter module that connects via radio to Yokis receiver modules of the electric system. Thanks to the integration with Yokis, it is possible to easily create centralisations and scenarios directly on the video door phone, without further wiring, through a user-friendly interface.

Yokis POWER INSIDE

Management of 8 services and 4 scenarios

Max.
item no. 1717/31 - 1060/31
Integrated IP home monitor 7'' 16:9
full touchscreen display

cxModo
item no. 1722/87
7'' touchscreen
display monitor

Yokis preset on Miro Vivavoce video door phone range

Available in video and audio version, Miro Vivavoce range is preset to integrate Yokis modules: the devices, in fact, have two auxiliary outputs for various services, e.g. to be used to connect them to E2BPP transmitter to create light and shutter centralisations.
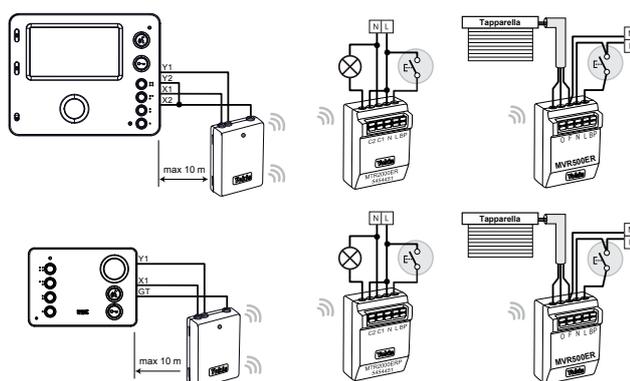
Mìro Vivavoce Video
item no. 1750/5 - black
item no. 1750/6 - white

Mìro Vivavoce Audio
item no. 1183/7

After a suitable programming of Yokis modules, it is possible to:

- with the first pushbutton, activate centralised locking of shutters

- with the second pushbutton, activate light switch-off.

Urmet and Yokis: applications for integrated solutions

Yokis modules can be integrated with Urmet product range to create automation scenarios through dry contact output. Some cases:

- Video surveillance: after a motion detection, a command is sent to the dry contact output.

- Intrusion alarm: after the activation of the alarm system, the centralisation on lights and shutters is controlled.

- Access control: creation of scenarios that can be activated through the pushbutton panel numeric keypad or through the proximity key.

For further information on integration between Urmet and Yokis products, contact your local Sales Office.

All details about products are available on
www.yokis.com website. Alternatively, you may scan
the QR code provided below with your smartphone or
tablet.

For further information about Yokis product installation,
refer to the relevant user manuals.

All Urmet products bear the CE mark.

Yokis products are distributed by **Urmet S.p.A.**
Via Bologna, 188/C | 10154 Torino

Contact us to find your local distributor.

Urmet S.p.A. reserves the right to make changes
to its products at any time without prior notice.

Yokis®
URMET GROUP

is in every professional's tool box

MADE IN EU!

5-year warranty

Products sold exclusively to professionals through electric equipment wholesalers.

For technical information, visit www.yokis.com.