

# YESLY Dimmers



Kitchen  
light control



Bedroom  
light control



Living room  
light control





**YESLY Bluetooth Dimmers**

**Type 15.21.8.230.B300**

- Round wall box (ie: Ø 60mm) mounting

**Type 15.71**

- Wall mounting, compatible with most common Italian residential switch boxes: AVE, BTicino, Gewiss, Simon-Urmet, Vimar

- 7 functions, dependent on the load type
- Functions with or without memory
- Dimming operating mode Trailing edge or Leading edge
- Linear/exponential regulation
- Suitable for dimmable LED lamps, dimmable CFL lamps, halogen lamps, transformers or electronic power supplies
- Transmission range: approximately 10 m in free space and without obstacles
- "Soft" switching ON/OFF
- Over-temperature and short-circuit protection

Screw terminal



For outline drawing see page 7

**Output data**

|  |      |                    |                    |
|--|------|--------------------|--------------------|
| Rated voltage  | V AC | 230                | 230                |
| Power max.   | W    | 300                | 200                |
| Power min.   | W    | 3                  | 3                  |
| Nominal lamp ratings:                                  |      |                    |                    |
| 230 V incandescent or halogen W                        |      | 300                | 200                |
| Toroidal electromagnetic transformers for LV halogen W |      | 300                | 200                |
| E-core electromagnetic transformers for LV halogen W   |      | 300                | 200                |
| Electronic transformers (or ballasts) for LV halogen W |      | 300                | 200                |
| Dimmable compact fluorescent (CFL) W                   |      | 150                | 100                |
| 230 V Dimmable LED Lamp W                              |      | 150                | 100                |
| 230 V LED Strip W                                      |      | 270 <sup>(1)</sup> | 180 <sup>(1)</sup> |
| Dimmable electronic transformers for LV LED W          |      | 300                | 200                |

**Supply specification**

|                                   |      |                            |                            |
|-----------------------------------|------|----------------------------|----------------------------|
| Nominal voltage (U <sub>N</sub> ) | V AC | 230                        | 230                        |
| Operating range                   |      | (0.8...1.1) U <sub>N</sub> | (0.8...1.1) U <sub>N</sub> |
| Stand-by power consumption        | W    | 0.4                        | 0.4                        |

**Technical data**

|                           |    |                              |                              |
|---------------------------|----|------------------------------|------------------------------|
| Dimming operating mode    |    | Trailing edge / Leading edge | Trailing edge / Leading edge |
| Ambient temperature range | °C | -10...+50                    | -10...+50                    |
| Protection category       |    | IP 20                        | IP 20                        |

**Approvals** (according to type)



**Note** <sup>(1)</sup> Select "Trailing edge" dimming operating mode from the application.

**NEW** 15.21.8.230.B300

YESLY



- Transmission protocol Bluetooth Low Energy (BLE)
- 128 bit encrypted connection
- Configurable via Finder TOOLBOX App - compatible with iOS and Android operating systems
- Can be controlled through standard pushbuttons, BEYON or 013.B9 wireless pushbuttons
- Maximum dimmable power 300 W
- Status LED

**NEW** 15.71

YESLY



- Transmission protocol Bluetooth Low Energy (BLE)
- 128 bit encrypted connection
- Configurable via Finder TOOLBOX App - compatible with iOS and Android operating systems
- Can be controlled through standard pushbuttons, BEYON or 013.B9 wireless pushbuttons
- Maximum dimmable power 200 W
- Status LED

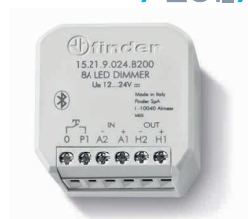
**PWM Dimmer for LED strip Bluetooth YESLY****Type 15.21.9.024.B200**

- Round wall box (ie: Ø 60mm) mounting
- LED strip
- "Soft" switching ON/OFF
- Protected against short-circuit, overload and reverse polarity
- Three PWM operating frequencies (selectable) - to counter "strobe" effect with camera

Screw terminal

**NEW 15.21.9.024.B200**

YESLY



- Transmission protocol Bluetooth Low Energy (BLE)
- 128 bit encrypted connection
- Configurable via Finder TOOLBOX App - compatible with iOS and Android operating systems
- Can be controlled through standard pushbuttons, BEYON or 013.B9 wireless pushbuttons
- Maximum dimmable power 192 W
- Three PWM operating frequencies (selectable) - to counter "strobe" effect with camera

For outline drawing see page 7

**Output data**

|                 |        |         |
|-----------------|--------|---------|
| Rated voltage   | V DC   | 12...24 |
| Maximum current | A      | 8       |
| LED strip:      |        |         |
|                 | 24 V W | 192     |
|                 | 12 V W | 96      |

**Supply specification**

|                                   |      |         |
|-----------------------------------|------|---------|
| Nominal voltage (U <sub>N</sub> ) | V DC | 12...24 |
| Operating range                   |      | —       |
| Stand-by power consumption        | W    | —       |

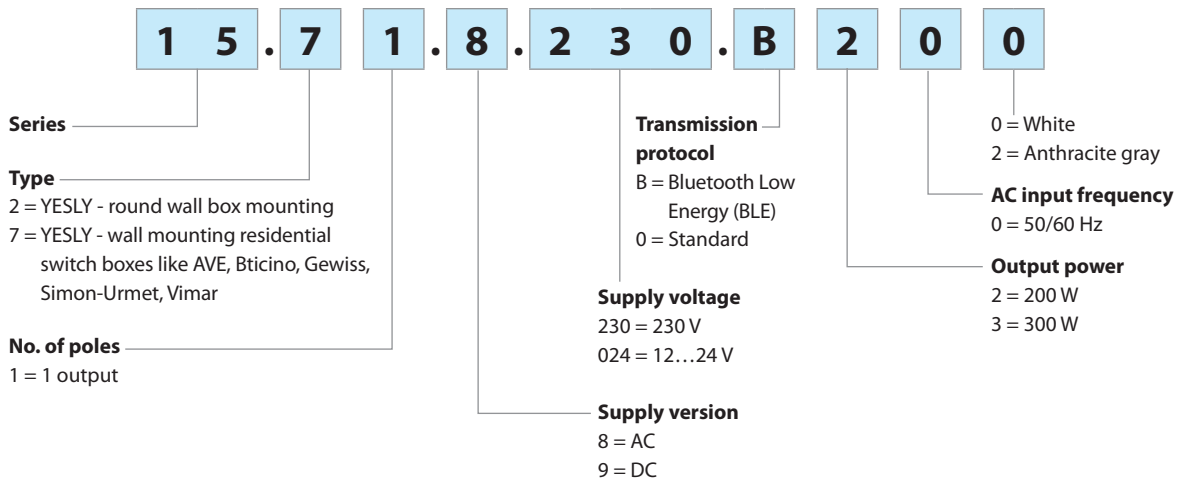
**Technical data**

|                           |    |           |
|---------------------------|----|-----------|
| Dimming operating mode    |    | PWM       |
| Ambient temperature range | °C | -10...+50 |
| Protection category       |    | IP 20     |

**Approvals** (according to type)

## Ordering information

Example: type 15.71, YESLY Bluetooth dimmer, 230 V AC.



### Available Codes

- 15.21.8.230.B300 YESLY BLE Dimmer - 300 W, White
- 15.21.9.024.B200 YESLY BLE Dimmer PWM
- 15.71.8.230.B200 YESLY BLE Dimmer - 200 W, White
- 15.71.8.230.B202 YESLY BLE Dimmer - 200 W, Anthracite

## Technical data

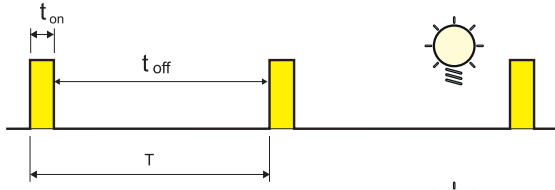
| EMC specifications                                      |   |  |                            |                   |                 |
|---|---|--|----------------------------|-------------------|-----------------|
| Type of test  |   | Reference standard                       | 15.21.8.230.B300/<br>15.71 | 15.21.9.024.B200  |                 |
| Electrostatic discharge                                 | contact discharge                       | EN 61000-4-2                             | 4kV                        | 4kV               |                 |
|   | air discharge                           | EN 61000-4-2                             | 8kV                        | 8kV               |                 |
| Radiated electromagnetic field                          | (80...3000 MHz)                         | EN 61000-4-3                             | 10 V/m                     | 10 V/m            |                 |
| Fast transients (burst)<br>(5-50 ns, 5 and 100 kHz)     | on supply terminals                     | EN 61000-4-4                             | 2kV                        | 2kV               |                 |
|   | on pushbutton connection                | EN 61000-4-4                             | 4kV                        | 1kV               |                 |
| Voltage pulses on supply terminals<br>(surge 1.2/50 μs) | differential mode                       | EN 61000-4-5                             | 2kV                        | 1kV               |                 |
| Radiofrequency common mode voltage<br>(0.15...80 MHz)   | on supply terminals                     | EN 61000-4-6                             | 10 V                       | 10 V              |                 |
|   | on pushbutton connection                | EN 61000-4-6                             | 10 V                       | 10 V              |                 |
| Voltage dips  | 70% U <sub>N</sub> , 40% U <sub>N</sub> | EN 61000-4-11                            | 10 cycles                  | 10 cycles         |                 |
| Short interruptions                                     |   | EN 61000-4-11                            | 10 cycles                  | 10 cycles         |                 |
| Radiofrequency conducted emissions                      | 0.15...30 MHz                           | EN 55015 /<br>ETSI EN 301489-1/301489-17 | class B                    | class B           |                 |
| Radiated emissions                                      | 30...6000 MHz                           | EN 55015 /<br>ETSI EN 301489-1/301489-17 | class B                    | class B           |                 |
| Terminals   |   | 15.71                                    |                            | 15.21             |                 |
| Max. wire size  |   | solid cable                              | stranded cable             | solid cable       | stranded cable  |
|   | mm <sup>2</sup>                         | 1 x 6 / 2 x 4                            | 1 x 4 / 2 x 2.5            | 1 x 2.5 / 2 x 1.5 | 1 x 2.5 / 2 x 1 |
|   | AWG                                     | 1 x 10 / 2 x 12                          | 1 x 12 / 2 x 14            | 1 x 14 / 2 x 16   | 1 x 14 / 2 x 16 |
| Screw torque  | Nm                                      | 0.8                                      |                            | 0.5               |                 |
| Wire strip length                                       | mm                                      | 9  |                            |                   |                 |
| Other data  |   | 15.71                                    |                            | 15.21             |                 |
| Power lost to the environment                           | without load                            | W  | 0.4                        |                   | 0.4             |
|   | with rated load                         | W  | 2                          |                   | 2.5             |

## Dimming method

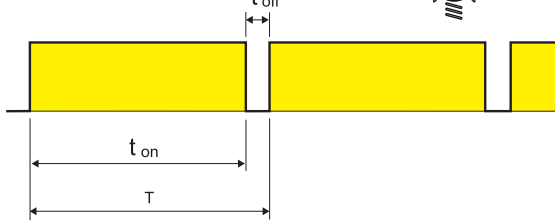
### PWM:

"Pulse Width Modulation" regulates electrical power by modulating the width of the ON time relative to the OFF time. The higher the duty cycle, the greater the power applied to the load. PWM is exclusively for direct current and is used particularly for the dimming of DC LED strips. In this case, the dimmer is positioned downstream of the power supply.

#### Duty Cycle 10 %



#### Duty Cycle 90 %



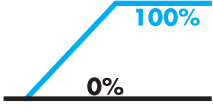
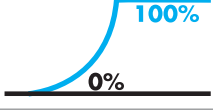

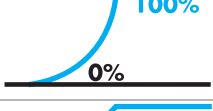

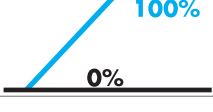


## Dimmer setting - Types 15.21 and 15.71

The dimming function can be set via Finder TOOLBOX App, available for iOS and Android systems. This product is ready-to-use with the factory setting: 1 – LEDRC1; Trailing edge linear control curve.

## Functions

Settable via App.

| Load type   | Function         | Driving method   | Control curve  |
|---|------------------|------------------|--|
| LED lamps, Halogen, electronic transformers<br><b>LED</b>   | 1                | TE Trailing Edge | Linear<br>      |
|   | 2                | LE Leading Edge  |  |
| LED<br><b>LED</b>   | 3                | TE Trailing Edge | Exponential<br> |
|   | 4                | LE Leading Edge  |  |
| CFL lamps<br>   | 5                | TE Trailing Edge | Exponential<br> |
|   | 6                | LE Leading Edge  |  |
| Electromechanical transformers<br>  | 7                | LE Leading Edge  | Linear<br>      |
| <b>AUTO</b>   | <b>AUTOMATIC</b> |                  |  |

**AUTO:** the automatic function verifies with a special algorithm the driving method (Trailing edge or Leading edge) best suited to the applied load. If the AUTO function is selected, the dimmer carries out a check switching on the load with two working cycles each time the dimmer is powered from the L & N (even after a blackout). These cycles allow the dimmer to set the right driving method.

**Control curve:** the Linear or Exponential control curve is useful in achieving the most visually appealing change in light intensity - according to the type of load being used.

## Parameters

Settable via Finder TOOLBOX App.

**Minimum light value:** Minimum value of load intensity.

**Switch time:** Switching ON/OFF time.

**Regulation time:** Time to reach the highest or lower light value.

**Scene time:** Reaching the value recalled by a scenario.

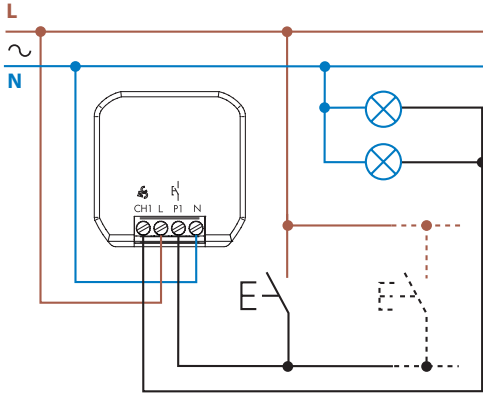
**Memory:** Remembers the brightness value before power off.

**Restore after blackout:** Restoring the light intensity to the value prior to a loss of power.

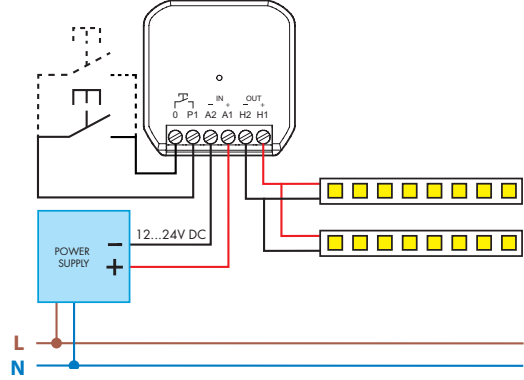
### Wiring diagrams

**Note:** remember to maintain a ground/earth connection for class 1 light fittings.

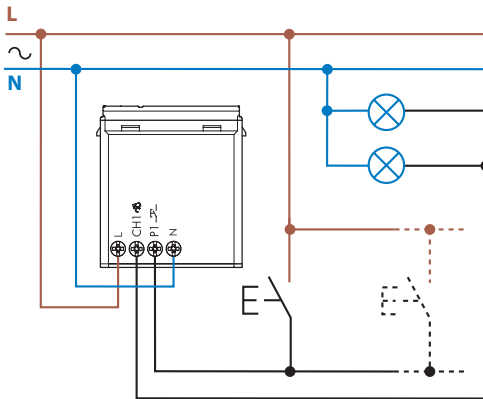
**Type 15.21.8.230.xxxx - 4 wire connection**



**Type 15.21.9.024.B200**

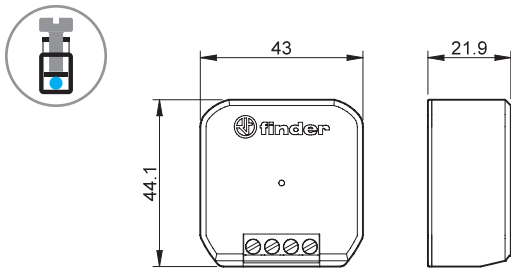


**Type 15.71 - 4 wire connection**

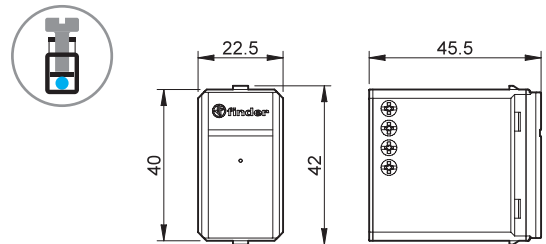


### Outline drawings

Type 15.21 - YESLY  
Screw terminal



Type 15.71 - YESLY  
Screw terminal



Accessories

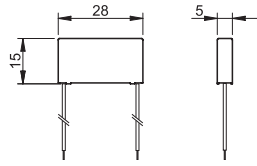


015.0.230

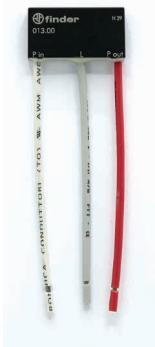
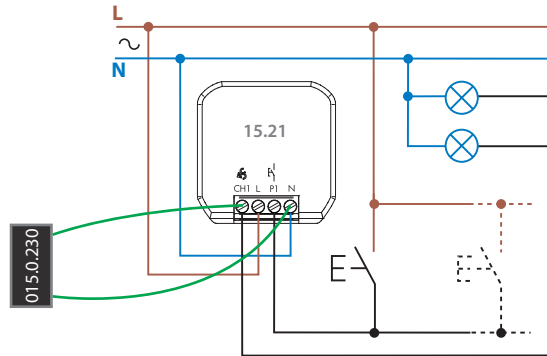
**Leakage current suppression module.**

It absorbs the leakage current on the LED lamps, when, with the Dimmer off, the lamps do not turn off completely but remain on at minimum. It absorbs 0.8 W at 230 V AC.

015.0.230



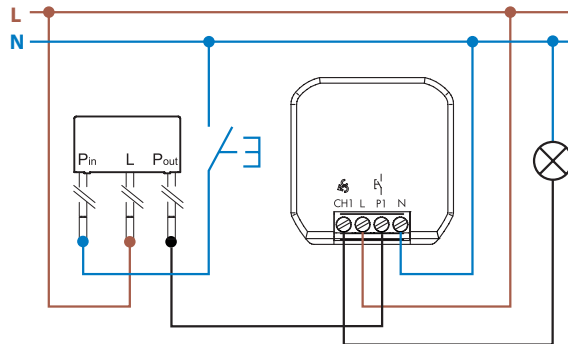
**Connection example - Type 15.21**



013.00

**Pushbutton phase/neutral converter.** Use this with a pre-existing neutral wired pushbutton when retro fitting a device designed only for phase connected pushbuttons. This avoids any radical change to the existing wiring.

013.00



013.17

**Adapter for DIN rail, to install devices 15.21 in the electrical panel.**

013.17

