

Dimmers



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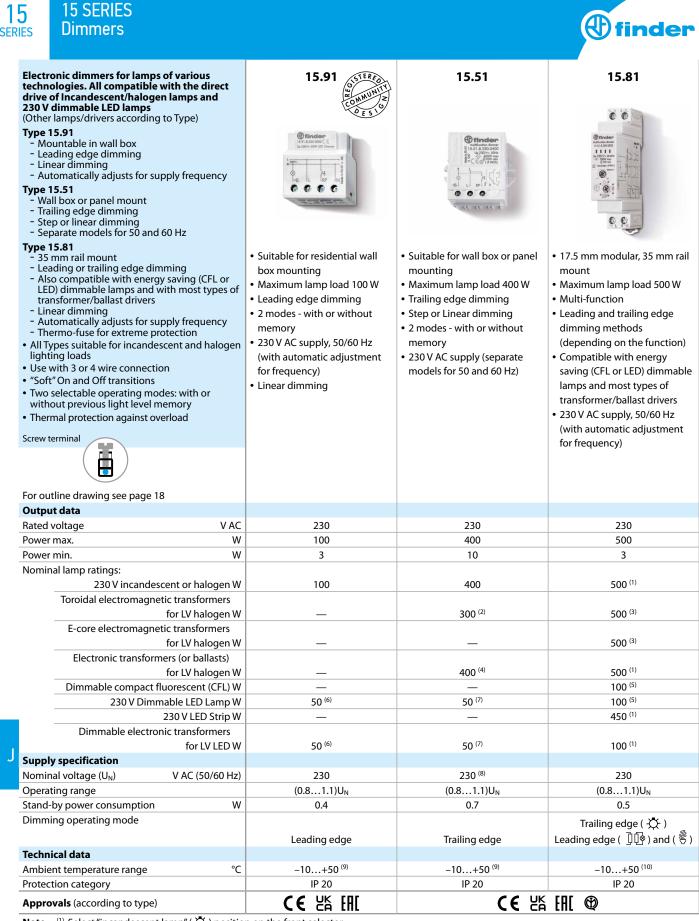


Highting loads of either single or mixed lamp signal to a maximum of 32 × 15.11 size dimming or other drivers of unmailes accepting a load with or without previous light level memory - Soft*Or and Of transitions - Linear dimming - Selectable operating modes with or without previous light level memory - Softward with any softward with any wide variety of lamps of different technology with memory function electronic driver) - Compatible with encry saving dimmable effect on appeter transformers for utile adminy see page 18 Master* dimmer - 10 V input, driven by 15.10 or with all protection - 10 V input, driven by 15.10 or with memory function - 10 V input, driven by 15.10 or or other driven construction with memory function - 10 V input, driven by 15.10 or with memory function - 10 V input, driven by 15.10 or with memory function - 10 V input, driven by 15.10 or with memory function - 10 V input, driven by 15.10 or with memory function - 10 V input, driven by 15.10 or with memory function - 10 V input, driven by 15.10 or -	 lighting loads of either single or mixed lamp technologies Type 15.10 "Master" - accepts input from a controlling push-button and outputs a dimming signal to a maximum of 32 x 15.11 slave dimmers, or other drivers or luminaires accepting a standardised 0-10 V/1-10 V signal Use with 4 wire connection "Soft" On and Off transitions Linear dimming Selectable operating modes with or without previous light level memory Staircase timer function Type 15.11 "Slave" - accepts 1-10 V input from a 15.10 or other 0-10 V/1-10 V output device to dim a wide variety of lamps of different technology Selector switch for incandescent and halogen lighting loads (with or without transformer or electronic driver) Compatible with energy saving dimmable CFL or LED lamps and with all types of electromagnetic transformers Thermal protection against overload, thermorfuse for extreme or short-circuit protection Screw terminal Screw terminal
Type 15.10 "Master" accepts input from a controlling push-buttom and outputs a dimming signal to a maximum of 32 x 15.11 slave dimmers, or other drives or luminales accepting a standardised 0-10 V/1-10 V signal 1 with outputs a dimming version signal to an aximum of 22 x 15.11 slave dimmer 1 signal to version signal to version signal results with our without ransformers 0 solution without get to 23 x 15.11 slave dimmer 1 solution signal to version signal results with our without ransformers 0 solution without get to 23 x 15.11 slave dimmer 1 solution without get to 23 x 15.11 slave dimmer 1 solution without get to 23 x 15.11 slave dimmer 1 solution without get to 23 x 15.11 slave dimmer 1 solution without get to 23 x 15.11 slave dimmer 1 solution without get to the solution of the context single devices and halogen 1 solution without get to 23 x 15.11 slave dimmer 1 solution without get to 23 x 15.11 slave dimmer 1 solution without get to 23 x 15.11 slave dimmer 1 solution without get to the solution of the context single devices and halogen 2 solution without get to a different technology witho different t	 Type 15.10 "Master" - accepts input from a controlling push-button and outputs a dimming signal to a maximum of 32 x 15.11 slave dimmers, or other drivers or luminaires accepting a standardised 0-10 V/1-10 V signal Use with 4 wire connection "Soft" On and Off transitions Linear dimming Selectable operating modes with or without previous light level memory Staircase timer function Type 15.11 "Slave" - accepts 1-10 V input from a 15.10 or other 0-10 V/1-10 V output device to dim a wide variety of lamps of different technology Selector switch for incandescent and halogen lighting loads (with or without transformer or electronic driver) Compatible with energy saving dimmable CFL or LED lamps and with all types of electromagnetic transformers Thermal protection against overload, thermofuse for extreme or short-circuit protection Screw terminal
15/10 or other 0-10 V/1-10 V output 0 vice to dria "Master" dimmer "Slave" dimmer • Selector switch for incardescent and halogen ighting to dask (with or without transformer or electronic driver) • Natif-Winton (with or without transformer or electronic driver) • Natif-Winton (without without transformer or function) • Natif-Winton (without without without without without transformer) • Natif-Winton (without without withou	 15.10 or other 0-10 V/1-10 V output device to dim a wide variety of lamps of different technology Selector switch for incandescent and halogen lighting loads (with or without transformer or electronic driver) Compatible with energy saving dimmable CFL or LED lamps and with all types of electromagnetic transformers Thermal protection against overload, thermo- fuse for extreme or short-circuit protection Screw terminal *Master" dimmer 0-10 V/1-10 V output to drive up to 32 x 15.11 slave dimmers or other similar devices Multi-function (with or without memory, including special "CFL with memory" function) Linear dimming Dimming speed setting Staircase timer function, with switch-off "early warning"
	* Maximum peak current of the contact 30 A 230 V AC. Use a contactor or power relay to switch loads exceeding this value • 6 A output relay contact* • 17.5 mm wide, modular, 35 m • 17.5 mm wide, modular, 35 m
Contact configurationA1 NO (6 A/230 V AC)*—"Slave Dimmer" output specifications $-$ 400Power max.W $-$ 3Nominal lamp ratings: 230 V incandescent or halogen W $-$ 400 (1)Toroidal electromagnetic transformers for LV halogen W $-$ 400 (2)E-core electromagnetic transformers for LV halogen W $-$ 400 (2)Electronic transformers (or ballasts) for LV halogen W $-$ 400 (1)Dimmable compact fluorescent (CFL) W $-$ 100 (3)230 V Dimmable LED Lamp W $-$ 100 (3)230 V Dimmable LED Lamp W $-$ 100 (1)230 V Dimmable LED Lamp W $-$ 100 (1)Dimmable electronic transformers for LV LED W $-$ 100 (1)Dimmable electronic transformers for LV LED W $-$ 100 (1)Dimmable electronic transformers for LV LED W $-$ 100 (1)Stapply specification $ -$ Nominal voltage (U _N)V AC (50/60 Hz)110230230Operating range(0.81.1) U _N (0.81.1) U _N (0.81.1) U _N Stand-by power consumptionW0.50.5Dimming operating modes $ -$ Leading edge ($\frac{V}{K}$)Delay setting (staircase function) max no. of illuminated push-button (\leq 1 mA)15 $-$ Ambient temperature range C $-10+50$ $-10+50$ (⁴)Protection categoryIP 20IP 20IP 20	Driving signal (Output mode automatically configures to match input mode of the connected Driver)0-10 V, +35 mA max (Active current sourcing mode)1-10 V, -35 mA max
"Slave Dimmer" output specifications W 400 Power max. W 3 Nominal lamp ratings: 230 V incandescent or halogen W 400 ⁽¹⁾ Toroidal electromagnetic transformers for LV halogen W 400 ⁽²⁾ E-core electromagnetic transformers for LV halogen W 400 ⁽²⁾ Electronic transformers (or ballasts) for LV halogen W 400 ⁽²⁾ Dimmable compact fluorescent (CFL) W 100 ⁽³⁾ 230 V Dimmable LED Lamp W 100 ⁽³⁾ 230 V LED Strip W 100 ⁽¹⁾ Dimmable electronic transformers for LV LED W 100 ⁽¹⁾ Supply specification 100 ⁽¹⁾ Nominal voltage (U _N) V AC (50/60 Hz) 110230 230 Operating range (0.81.1) U _N (0.81.1) U _N (0.81.1) U _N Stand-by power consumption W 0.5 0.5 Dimming operating modes Leading edge (① P) and (©) Technical data Leading edge (① P) and (©) Dimming speed (total dimming time) s 1.510	
Power max.W400Power min.W3Nominal lamp ratings:230 V incandescent or halogen W400 (1)Toroidal electromagnetic transformers for LV halogen W400 (2)E-core electromagnetic transformers for LV halogen W400 (2)Electronic transformers of or LN halogen W400 (2)Electronic transformers of V halogen W400 (2)Dimmable compact fluorescent (CFL) W100 (3)230 V Dimmable LED Lamp W100 (3)230 V Dimmable LED Lamp W100 (1)Dimmable electronic transformers for LV LED W100 (1)Dimmable electronic transformers for LV LED W100 (1)Supply specification100 (1)Nominal voltage (U _h)V AC (50/60 Hz)110230230Operating range(0.81.1) U _N (0.81.1) U _N Stand-by power consumptionW0.50.5Dimming operating modesTrailing edge ($\frac{1}{2}$)) Leading edge ($\frac{1}{2}$) and ($\frac{2}{5}$)Dimming speed (total dimming time)s1.510Dimming speed (total dimming time)s1.510Diaming speed (total dimming time)s1.510Max no. of illuminated push-button ($\leq 1 \text{ mA}$)15Ambient temperature range°C-10+50-10+50 (4)Protection categoryIP 20IP 20IP 20	
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$\begin{tabular}{ c c c c } \hline 230 V incandescent or halogen W & & 400 (1) \\ \hline Toroidal electromagnetic transformers for LV halogen W & & 400 (2) \\ \hline E-core electromagnetic transformers for LV halogen W & & 400 (2) \\ \hline E-core electronic transformers or ballasts for LV halogen W & & 400 (1) \\ \hline Electronic transformers (or ballasts) for LV halogen W & & 400 (1) \\ \hline Dimmable compact fluorescent (CFL) W & & 100 (3) \\ \hline 230 V Dimmable LED Lamp W & & 100 (3) \\ \hline 230 V LED Strip W & & 360 (1) \\ \hline Dimmable electronic transformers for LV LED W & & 100 (1) \\ \hline Supply specification & & & & & & & & & & & & & & & & & & &$	Power min. W — 3
$\begin{tabular}{ c c c c }\hline Toroidal electromagnetic transformers for LV halogen W 400 (2) \\ \hline E-core electromagnetic transformers for LV halogen W 400 (2) \\ \hline E-core electronic transformers (or ballasts) for LV halogen W 400 (1) \\ \hline Electronic transformers (or ballasts) for LV halogen W 100 (3) \\ \hline Dimmable compact fluorescent (CFL) W 100 (3) \\ \hline 230 V Dimmable LED Lamp W 360 (1) \\ \hline Dimmable electronic transformers for LV LED W 360 (1) \\ \hline Dimmable electronic transformers for LV LED W 100 (1) \\ \hline Supply specification V 100 (1) \\ \hline Supply specification V AC (50/60 Hz) 110230 230 \\ Operating range (0.81.1) U_N (0.81.1) U_N (0.81.1) U_N \\ Stand-by power consumption W 0.5 0.5 \\ \hline Dimming operating modes \\ \hline Trailing edge (1) (1) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2$	Nominal lamp ratings: 230 V incandescent or halogen W — 400 ⁽¹⁾
for LV halogen W—400 (2)Electronic transformers (or ballasts) for LV halogen W—400 (1)Dimmable compact fluorescent (CFL) W—100 (3)230 V Dimmable LED Lamp W—100 (3) or (1)230 V LED Strip W—360 (1)Dimmable electronic transformers for LV LED W—100 (1)Supply specification—100 (1)Nominal voltage (U _N)V AC (50/60 Hz)110230230Operating range(0.81.1) U _N (0.81.1) U _N Stand-by power consumptionW0.50.5Dimming operating modes—Trailing edge (10) (1)Technical data——Dimming speed (total dimming time)\$1.510Dinming speed (total dimming time)\$1.520Max no. of illuminated push-button (≤ 1 mA)15—Ambient temperature range°C-10+50-10+50 (4)Protection categoryIP 20IP 20IP 20	Toroidal electromagnetic transformers
$\frac{for LV halogen W}{Immable compact fluorescent (CFL) W} - 400^{(1)}$ $\frac{Dinmable compact fluorescent (CFL) W}{230 V Dinmable LED Lamp W} - 100^{(3)}$ $\frac{230 V Dinmable LED Lamp W}{Immable electronic transformers}$ $for LV LED Strip W - 360^{(1)}$ $\frac{Dinmable electronic transformers}{for LV LED W} - 100^{(1)}$ $\frac{Supply specification}{Immable electronic transformers}$ $\frac{Operating range}{(0.81.1) U_N} - 0.5$ $\frac{Operating range}{Imming operating modes} - 0.5$ $\frac{Trailing edge (C, C, C)}{Leeding edge (C, C, C)}$ $\frac{Dinming speed (total dimming time) s}{I.510} - 0.5$ $\frac{Dinming speed (total dimming time) s}{I.520} - 0.5$ $Dinming speed $	
$\begin{array}{ c c c c c } \hline 230 \ V \ Dimmable \ LED \ Lamp \ W & & 100 \ ^{(3) \ or (1)} \\ \hline 230 \ V \ LED \ Strip \ W & & 360 \ ^{(1)} \\ \hline Dimmable \ electronic \ transformers \ for \ LV \ LED \ W & & 100 \ ^{(1)} \\ \hline Dimmable \ electronic \ transformers \ for \ LV \ LED \ W & & 100 \ ^{(1)} \\ \hline Supply \ specification & & & & & & & & & & & & & & & & & & &$	for LV halogen W — 400 ⁽¹⁾
$\begin{array}{ c c c c c } \hline 230 \text{ V LED Strip W} & & 360 \ (1) \\ \hline Dimmable electronic transformers for LV LED W & & 100 \ (1) \\ \hline Supply specification & & & & & & & \\ \hline Nominal voltage (U_N) & V AC (50/60 Hz) & 110230 & 230 & & & & & \\ Operating range & (0.81.1) U_N & (0.81.1) U_N & & & & & & \\ Operating range & (0.81.1) U_N & (0.81.1) U_N & & & & & & & \\ Stand-by power consumption & W & 0.5 & 0.5 & & & & & & \\ Dimming operating modes & & & & & & & & & & \\ Dimming operating modes & & & & & & & & & & & \\ Trailing edge (\ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ (10) \ $	
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Stand-by power consumptionW0.50.5Dimming operating modes $-$ Trailing edge (\checkmark) Leading edge ($\frac{1}{2}$) and ($\stackrel{\circ}{\leqslant}$)Technical data $-$ Leading edge ($\frac{1}{2}$) and ($\stackrel{\circ}{\leqslant}$)Dimming speed (total dimming time)s1.510Delay setting (staircase function)min0.520Max no. of illuminated push-button (≤ 1 mA)15 $-$ Ambient temperature range°C $-10+50$ $-10+50^{(4)}$ Protection categoryIP 20IP 20	
Dimming operating modesTrailing edge (\checkmark) Leading edge (10°) and ($\$$)Technical dataTechnical dataDimming speed (total dimming time) s1.510Delay setting (staircase function) min Max no. of illuminated push-button (≤ 1 mA)15Ambient temperature range Protection categoryIP 20IP 20IP 20	
Dimming speed (total dimming time)s 1.510 $$ Delay setting (staircase function)min 0.520 $$ Max no. of illuminated push-button ($\leq 1 \text{ mA}$) 15 $$ Ambient temperature range°C $-10+50$ $-10+50^{(4)}$ Protection categoryIP 20IP 20	Dimming operating modes Trailing edge (♥) — Leading edge (♥)
Delay setting (staircase function)min 0.520 —Max no. of illuminated push-button (≤ 1 mA)15—Ambient temperature range°C $-10+50$ $-10+50^{(4)}$ Protection categoryIP 20IP 20	
Max no. of illuminated push-button (≤ 1 mA)15—Ambient temperature range°C $-10+50$ $-10+50^{(4)}$ Protection categoryIP 20IP 20	
Ambient temperature range°C-10+50-10+50 ⁽⁴⁾ Protection categoryIP 20IP 20	
Protection category IP 20 IP 20	· · ·
Approvals (according to type)	

Note

(1) Select "trailing edge" (☆) position on the front selector.
 (2) Select "transformer" (□□]) position on the front selector. Preferably, no more than 2 transformers.
 (3) Select "leading edge" (﴿) position on the front selector, and set the appropriate minimum dimming value (dependent on lamp type).
 (4) With lamp load > 300 W (> 75 W for CFL or LED lamps), adequate ventilation must be provided - a gap of 9 mm on both side of the dimmer is

suggested. Use the plastic separator type 022.09.



Note ⁽¹⁾ Select "incandescent lamp" (-Q-) position on the front selector.

⁽²⁾ One transformer only. Power-up only with the lamp load connected.

(3) Select "transformer" (]] [] (3) position on the front selector. Preferably, no more than 2 transformers.

(4) One transformer only.

(5) Select "CFL" (營) position on the front selector, and set the appropriate minimum dimming value (dependent on lamp type).

⁽⁶⁾ Only if lamps or electronic transformers are compatible with leading edge method.

⁽⁷⁾ Only if lamps or electronic transformers are compatible with trailing edge method.

⁽⁸⁾ Specific 60 Hz version available (see ordering information).

⁽⁹⁾ It is not recommended to mount more than one dimmer in the same wall box, unless adequate ventilation is provided or the lamp load is less than 100 W (15.51) or 50 W (15.91).

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(10) With lamp load > 300 W (> 75 W for CFL or LED lamps), adequate ventilation must be provided - a gap of 9 mm on both side of the dimmer is suggested. Use the plastic separator type 022.09.

Not compatible with illuminated push-buttons.

Screw terminal

15 SERIES YESLY Dimmers



finder

YESLY Bluetooth Dimmers 230 V		15.21.8.230.B300	15.21.8.230.0200	15.71
Type 15.21.8.230.B300		VECLV		
- Round wall box (ie: Ø 60mm) mou	unting	YESI_Y		YESI_>
 Type 15.71 Wall mounting, compatible with a common Italian residential switch AVE, BTicino, Gewiss, Simon-Urme 7 functions, dependent on the load Functions with or without memory Dimming operating mode Trailing Leading edge 	h boxes: et, Vimar d type /	CHILPIN	Diring cler 15.21.8.230.0000 UC 2007 2007 UC Danker 2007 UC Danker Market	Are Brite Charles Are Brites
 Linear/exponential regulation Suitable for dimmable LED lamps, or CFL lamps, halogen lamps, transfor electronic power supplies Transmission range: approximately space and without obstacles "Soft" switching ON/OFF Over-temperature and short-circuit Universal electronic dimmer 230 V Type 15.21.8.230.0200 Round wall box (ie: Ø 60mm) mote Dimming operating mode Trailing Leading edge "Soft" switching ON/OFF Over-temperature and short-circuit 	rmers or 10 m in free t protection 7 unting g edge or	 Transmission protocol Bluetooth Low Energy (BLE) 128 bit encrypted connection Configurable via Finder YOU 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 	 Dimming operating mode Trailing edge or Leading edge No BLE interface Suitable for LED loads Maximum dimmable power 200 W LED Without memory 	 Transmission protocol Bluetooth Low Energy (BLE) 128 bit encrypted connectio Configurable via Finder YOU app - compatible with iOS ar Android operating systems Can be controlled through standard pushbuttons, BEYON or 013.B9 wireless pushbuttons Maximum dimmable power 200 W Status LED
Screw terminal				
Screw terminal				
For outline drawing see page 18				
For outline drawing see page 18 Dutput data	VAC	230	230	230
For outline drawing see page 18 Dutput data Rated voltage	V AC W	230 300	230 200	230 200
For outline drawing see page 18 Dutput data Rated voltage Power max.				
For outline drawing see page 18 Output data Rated voltage Power max. Power min.	W	300	200	200
For outline drawing see page 18 Output data Rated voltage Power max. Power min.	W W	300	200	200
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for l	W W or halogen W ansformers LV halogen W	300 3	200 3	200 3
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra	W W or halogen W ansformers LV halogen W	300 3 300	200 3	200 3 200
For outline drawing see page 18 Dutput data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for l E-core electromagnetic tra	W or halogen W ansformers LV halogen W ansformers LV halogen W	300 3 300 300	200 3	200 3 200 200
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For outline drawing see page 18 Dutput data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable	W W or halogen W ansformers LV halogen W ansformers LV halogen W for ballasts) LV halogen W scent (CFL) W	300 3 300 300 300 300 150	200 3 200 — 200 — 200 —	200 3 200 200 200 200 200 100
For outline drawing see page 18 Dutput data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable	W W or halogen W ansformers LV halogen W for ballasts) LV halogen W scent (CFL) W scent (CFL) W V LED Strip W	300 3 300 300 300 300 150 150	200 3 200 — 200 — 200 — 200 — 200	200 3 200 200 200 200 200 100 100
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable 230 V Dimmable electronic tra	W W or halogen W ansformers LV halogen W or ballasts) LV halogen W scent (CFL) W scent (CFL) W LED Lamp W V LED Strip W ansformers	300 3 300 300 300 300 150 150 150 270 ⁽¹⁾	200 3 200 200 200 180	200 3 200 200 200 200 100 100 100 180 ⁽¹⁾
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable 230 V Dimmable electronic tra	W W or halogen W ansformers LV halogen W or ballasts) LV halogen W scent (CFL) W scent (CFL) W LED Lamp W V LED Strip W ansformers	300 3 300 300 300 300 150 150 150 270 ⁽¹⁾	200 3 200 200 200 180	200 3 200 200 200 200 100 100 100 180 ⁽¹⁾
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable 230 V Dimmable electronic tra Supply specification Nominal voltage (U _N)	W W or halogen W ansformers LV halogen W ansformers LV halogen W scent (CFL) W scent (CFL) W LED Lamp W V LED Strip W ansformers for LV LED W	300 3 300 300 300 300 150 150 150 270 ⁽¹⁾ 300	200 3 200 — 200 — 200 — 200 180 200	200 3 200 200 200 200 100 100 180 ⁽¹⁾ 200
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for I E-core electromagnetic tra for I Electronic transformers (of for I Dimmable compact fluores 230 V Dimmable 230 V Dimmable electronic tra Supply specification Nominal voltage (U _N) Operating range	W W or halogen W ansformers LV halogen W ansformers LV halogen W scent (CFL) W scent (CFL) W LED Lamp W V LED Strip W ansformers for LV LED W	300 3 300 300 300 300 300 150 150 270 ⁽¹⁾ 300 230	200 3 200 — 200 — 200 — 200 180 200 180 200	200 3 200 200 200 200 200 100 100 100 180 ⁽¹⁾ 200 230
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable 230 V	W W or halogen W ansformers LV halogen W (or ballasts) LV halogen W scent (CFL) W LED Lamp W V LED Strip W ansformers for LV LED W V AC	300 3 300 300 300 300 300 150 150 150 270 ⁽¹⁾ 300 220 (0.81.1) U _N	200 3 200 — 200 — 200 — 200 180 200 180 200 180 200 (0.81.1) U _N	200 3 200 200 200 200 200 200 100 100 100 100
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable 230 V Dimmable electronic tra Supply specification Nominal voltage (U _N) Operating range Stand-by power consumption	W W or halogen W ansformers LV halogen W (or ballasts) LV halogen W scent (CFL) W LED Lamp W V LED Strip W ansformers for LV LED W V AC	300 3 300 300 300 300 300 150 150 150 270 ⁽¹⁾ 300 220 (0.81.1) U _N	200 3 200 — 200 — 200 — 200 180 200 180 200 180 200 (0.81.1) U _N	200 3 200 200 200 200 200 200 100 100 180 ⁽¹⁾ 200 230 (0.81.1) U _N 0.4
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable 230 V Dimmable electronic tra Supply specification Nominal voltage (U _N) Operating range Stand-by power consumption Technical data	W W or halogen W ansformers LV halogen W (or ballasts) LV halogen W scent (CFL) W LED Lamp W V LED Strip W ansformers for LV LED W V AC	300 3 300 300 300 300 300 150 150 150 270 ⁽¹⁾ 300 230 (0.81.1) U _N 0.4	200 3 200 — 200 — 200 — 200 180 200 180 200 (0.81.1) U _N 0.4	200 3 200 200 200 200 200 100 100 100 180 ⁽¹⁾ 200 230 (0.81.1) U _N 0.4
For outline drawing see page 18 Output data Rated voltage Power max. Power min. Nominal lamp ratings: 230 V incandescent of Toroidal electromagnetic tra for L E-core electromagnetic tra for L Electronic transformers (for L Dimmable compact fluores 230 V Dimmable 230 V Dimmable electronic tra Supply specification Nominal voltage (U _N) Operating range Stand-by power consumption Technical data Dimming operating mode	W W or halogen W ansformers LV halogen W for ballasts) LV halogen W scent (CFL) W t LED Lamp W V LED Strip W ansformers for LV LED W V AC W	300 3 300 300 300 300 300 300 150 150 150 270 ⁽¹⁾ 300 230 (0.81.1) U _N 0.4 Trailing edge / Leading edge	200 3 200 — 200 — 200 — 200 180 200 180 200 230 (0.81.1) U _N 0.4 Trailing edge / Leading edge	200 3 200 200 200 200 200 200 100 100 100 180 ⁽¹⁾ 200 230 (0.81.1) U _N 0.4 Trailing edge / Leading edge

Note ⁽¹⁾ Select "Trailing edge" dimming operating mode from the application.



PWM Dimmer for LED strip Bluetooth	YESLY	15,21,9.024.B200
 Type 15.21.9.024.B200 Round wall box (ie: Ø 60mm) mounti LED strip "Soft" switching ON/OFF Protected against short-circuit, overload reverse polarity Three PWM operating frequencies (select counter "strobe" effect with camera 	ng I and	PICE NOT CONTRACT OF CONTRACT
Screw terminal		 Transmission protocol Bluetooth Low Energy (BLE) 128 bit encrypted connection Configurable via Finder YOU 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
Output data		
Rated voltage	V DC	1224
Maximum current	A	8
LED strip:	24 V W 12 V W	192 96
Supply specification		
Nominal voltage (U_N)	V DC	1224
Operating range		
Stand-by power consumption	W	_
Technical data		D11/11
Dimming operating mode		PWM
Ambient temperature range	°C	-10+50
Protection category		
Approvals (according to type)		CE K

15 SERIES KNX Universal Dimmer - 2 channel



KNX Universal Dimmer with 2 channels

- 2 x 400W channels
- LED indicators for each channel
- Thermal protection and short-circuit protection
- Manual override through front panel
- Scenario Management
- Power supply via KNX bus
- 35 mm rail (EN 60715) mounting
- Suitable for ETS 4 (or latest versions)

Screw terminal





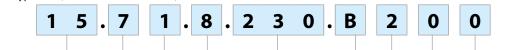
- Dimming operating modes: Leading Edge or Trailing Edge, ETS configurable
- Suitable for many kind of loads: LED lamps, halogen, CFL, electronic and electromagnetic transformers

For outline drawing see page 14				
Output data				
Rated voltage	V	230		
Power max.	W	400		
Power min.	W	2		
Nominal lamp ratings 230 V:				
230 V incandescent o	or halogen W	400		
Toroidal electromagnetic tra	nsformers			
for L	V halogen W	400		
E-core electromagnetic tra	nsformers			
for L	V halogen W	400		
Electronic transformers (c	, ,			
	V halogen W	400		
Dimmable compact fluorescent (CFL) W		100		
Dimmable 230 V LED W		100		
Dimmable electronic tra				
	for LV LED W	100		
Dimming operating modes		Leading Edge / Trailing Edge		
Supply specification				
Type of BUS		KNX		
Supply voltage	V DC	30		
Rated consumption mA		7		
Technical data				
Ambient temperature range	°C	-5+45		
Protection category		IP 20		
Approvals (according to type)		CE LA		



Ordering information

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



Series

Туре

- 1 = Master / slave, 35 mm rail (EN 60715) mount, 17.5 mm wide
- 2 = Round wall box mounting
- 2 = Mounting on 35 mm rail (EN 60715), with 2 outputs (15.2K)
- 5 = Panel or wall box mount
- 7 = YESLY wall mounting residential switch boxes like AVE, Bticino, Gewiss, Simon-Urmet, Vimar
- 8 = 35 mm rail (EN 60715) mount, 17.5 mm wide, for energy saving lamps
- 9 = Wall box mount, for LED lamps

No. of poles

- 0 = 0-10 V output (only for 15.10)
- 1 = 1 output
- K = KNX interface dimmer



Supply voltage

230 = 230 V 230 = 110...230 V (only for 15.10) 024 = 12...24 V

0 = Standard

Supply version

8 = AC 9 = DC

- 0 = Standard 0 = Type 15.71 white
 - 2 = Type 15.71 anthracite gray
 - 4 = Only for 15.51 linear dimming

AC input frequency

0 = 50 Hz (15.51) 50/60 Hz (15.11/21/71/81/91) DC (15.21.9.024.B200) 1 = 50/60 Hz (15.10) 6 = 60 Hz (15.51)

Output power

0 = 100 W (15.91) 2 = 200 W (115.21, 5.71) 3 = 300 W (15.21) 4 = 400 W (15.51, 15.11, 15.2K) 5 = 500 W (15.81)

Available Codes

15.10.8.230.0010 master dimmer, 50/60 Hz 15.11.8.230.0400 slave dimmer, 50/60 Hz 15.21.8.230.8300 YESLY BLE Dimmer - 300 W, White 15.21.8.230.0200 Universal Dimmer 15.21.9.024.B200 YESLY BLE Dimmer PWM 15.51.8.230.0400 step dimming, 50 Hz 15.51.8.230.0400 step dimming, 50 Hz 15.51.8.230.0460 step dimming, 60 Hz 15.71.8.230.B200 YESLY BLE Dimmer - 200 W, White 15.71.8.230.B200 YESLY BLE Dimmer - 200 W, Anthracite 15.81.8.230.0500 linear dimming, 50/60 Hz 15.91.8.230.0000 linear dimming, 50/60 Hz 15.2K.8.230.0400 KNX universal Dimmer



15 SERIES

Technical data

EMC specifications										
Type of test		Reference standard	2	15.51/15.91	15.10/	11/81	15.2	21.8.230.0	0200	15.2K
Electrostatic discharge contact discharge		EN 61000-	4-2	4 kV			4 kV		4 kV	
	air discharge	EN 61000-4-2		8 kV			8 kV		8 kV	
Radiated electromagnetic field	(801000 MHz)	EN 61000-	4-3	3 V/m	10 V	10 V/m		10 V/m		3 V/m
Fast transients (burst)	on supply terminals	EN 61000-	4-4	4	kV			4 kV		4 kV
(5-50 ns, 5 and 100 kHz)	on pushbutton connection	EN 61000-	4-4	4	kV			4 kV		_
Voltage pulses on supply termir (surge 1.2/50 µs)	nals differential mode	EN 61000-	4-5	2	2 kV			2 kV		2.5 kV
Radiofrequency common	on supply terminals	EN 61000-	4-6		3 V			10 V		3 V
mode voltage (0.1580 MHz)	on pushbutton connection	EN 61000-	4-6	-	3 V			10 V		
Voltage dips	70% U _N , 40% U _N	EN 61000-	4-11	10 (cycles			10 cycles		10 cycles
Short interruptions		EN 61000-	4-11	10 (cycles			10 cycles		10 cycles
Radiofrequency conducted emi	ssions 0.1530 MHz	EN 55015		cla	ass B			class B		class B
Radiated emissions	301000 MHz	EN 55015		cla	ass B			class B		class B
EMC specifications YESLY				15.21.8.	230.B30	0/15.71		1	5.21.9.02	4.B200
Electrostatic discharge	contact discharge	EN 61000-	4-2		4 kV				4 k\	/
	air discharge	EN 61000-	4-2		8 kV				8 k\	/
Radiated electromagnetic field	(801000 MHz)	EN 61000-	4-3	10 V/m			10 V/m		m	
Fast transients (burst)	on supply terminals	EN 61000-	4-4		2 kV			2 kV		/
(5-50 ns, 5 and 100 kHz)	on pushbutton connection	EN 61000-	4-4	4 kV			1 kV		/	
Voltage pulses on supply termir (surge 1.2/50 µs)	nals differential mode	EN 61000-	4-5	2 kV			1 kV			
Radiofrequency common	on supply terminals	EN 61000-	4-6	10 V			10 V			
mode voltage (0.1580 MHz)	on pushbutton connection	EN 61000-	4-6	10 V			10 V		/	
Voltage dips	70% U _N , 40% U _N	EN 61000-	1000-4-11 10 cycles				10 cyc	les		
Short interruptions		EN 61000-4-11 10 cycles				10 cyc	les			
Radiofrequency conducted emi	ssions 0.1530 MHz		EN 55015 / ETSI EN 301489-1/ class B ETSI EN 301489-17			class B		В		
Radiated emissions	306000 MHz	EN 55015 / ETSI EN 301 ETSI EN 301	1489-1/			class B		В		
Terminals		15.10/15.11/15.51/15.71/ 15.81/15.91		15.	15.21			15.2K		
Max. wire size		solid cable		stranded cable	solid cable		strar cable		solid cable	stranded cable
	mm ²	1 x 6 / 2 x 4		1 x 4 / 2 x 2.5	1 x 2.5 / 2 x 1.5	/	1 x 2 2 x 1		1 x 6 / 2 x 2.5	1 x 4 / 2 x 1.5
	AWG	1 x 10 / 2 x 12		1 x 12 / 2 x 14	1 x 14 / 2 x 16		1 x 1 2 x 1		1 x 10 / 2 x 14	1 x 12 / 2 x 16
🕀 Screw torque	Nm			I	0.5				0.5	
Wire strip length	mm	ו 9		1			7		7	
Other data		15.10	15.11	15.21	15.51	15.71		15.81	15.91	15.2K
Power lost to the environment	without load W	0.5	0.5	0.4	0.7	0.4		0.5	0.4	_
-	with rated load W	1.7	2.5	2.5	2.2	2		2.6	1.2	
Max cable length for push-butte	on connection m	100	100	100	100	100		100	100	
Max cable length for Master and	d Slaves connection m	100 (keep	separate	e from power o	ables)					



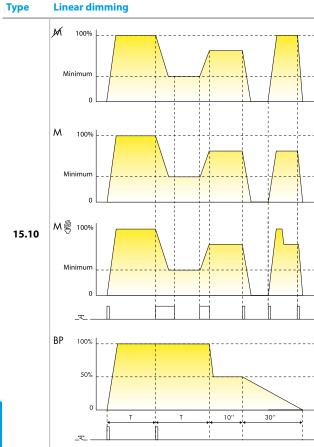
Types 15.10 and 15.11

Signaling



LED (15.11 only)	Condition
	Stand-by, input voltage < 1 V
	Active, input voltage $\geq 1 V$
	Short circuit or overload, output disabled
	Overtemperature, output disabled

Functions



Operating mode without memory: at switch-off, the light level is not memorized.

Long control pulse: The light level is progressively raised or lowered in linear way. The lowest value depending on the "minimum dimming level" regulator setting (on 15.11).

Short control pulse: Alternately switches between On and Off (maximum light level and the off state).

Operating mode with memory: the previous light level is memorized.

Long control pulse: The light level is progressively raised or lowered in linear way. The lowest value dependent on the "minimum dimming level" regulator setting (on 15.11).

Short control pulse: Alternately switches between On and Off. When switching On, the light level assumes the value set during the previous On state.

Operating mode with memory: the previous light level is memorized, specific for CFL Lamp.

Long control pulse: The light level is progressively raised or lowered in linear way. The lowest value dependent on the "minimum dimming level" regulator setting (on 15.11).

Short control pulse: Alternately switches between On and Off. When switching On, the light level reach the full value for a very short time (in order to guarantee the correct lamp turn-on), then immediately assumes the value set during the previous On state.

Staircase relay with early warning

On initial impulse the output closes and the timing starts for the pre-set duration. After the timing period (T), the output power is reduced to 50% for 10 seconds; then in the last 30 seconds it will be further reduced to the final shutdown. During the pre-set and 40 seconds warning time, it is possible, by a further impulse, to extend the time by the full pre-set value.

XI-2022, www.findernet.com

Type of load - Type 15.11 Type of load	Selector setting	Regulator setting	
 Incandescent lamps 230 V halogen lamps 12/24 V halogen and LED lamps with electronic transformer/ballast 	(Trailing Edge)	It is suggested to set the "minimum dimming level" at the lowest value, so that the complete dimming range is available. But if it is necessary to avoid too low a level of illumination, a higher value can be set.	+
 Dimmable compact fluorescent lamps (CFL) Dimmable LED lamps 	(Leading Edge)	It is suggested to initially set the "minimum dimming level" at an intermediate value and then if necessary, readjust for a level found to be compatible with the lamp being used.	+
12/24 V halogen lamps with toroidal or E-core electromagnetic transformer	(Leading Edge)	It is suggested to set the "minimum dimming level" at the lowest value, so that the complete dimming range is available. But if it is necessary to avoid too low a level of illumination, a higher value can be set.	

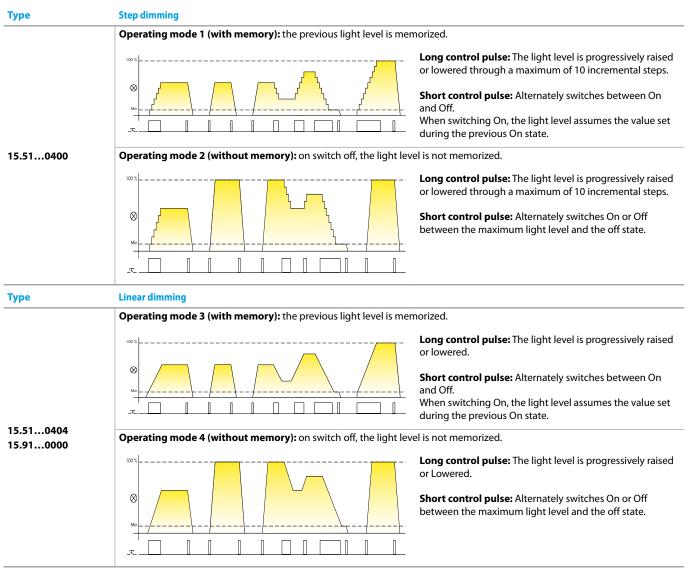
Type of load - Type 15,11



5

Type 15.51 and 15.91

Functions



Operating mode setup

Type 15.51

On 15.51 operating mode 1 or 3 (with memory) is preset, but it is possible to change it using the following sequence:

- a) remove the supply voltage;
- b) press the control button;
- c) apply the supply to the relay, keeping the button closed for 3 second;

d) on button release, the light will flash twice to indicate the selection of operating mode 2 or 4, or flash once for operating mode 1 or 3.

Repeating the above steps will alternately change between operating modes.

Type 15.91

On 15.91 operating mode 4 (without memory) is preset, but it is
possible to change it using the following sequence:
a) remove the supply voltage;
b) press the control button;
c) apply the supply to the relay, keeping the button closed for 3 second;
d) on button release, the light will flash twice to indicate the selection of
operating mode 3, or flash once for operating mode 4.
Repeating the above steps will alternately change between operating
modes.

Type 15.21.8.230.0200

The dimmer is pre-set for "Trailing edge" dimming, but it is possible to set "Leading edge" using the following sequence:

- a) disconnect the power supply;
- b) press and hold down a push-button;
- c) restore power while holding down the button until the lamp produces.

one or two flashes and, at this point, release the button. If 2 flashes are emitted the new set method will be Leading Edge, if only one flash is emitted the method will be Trailing Edge

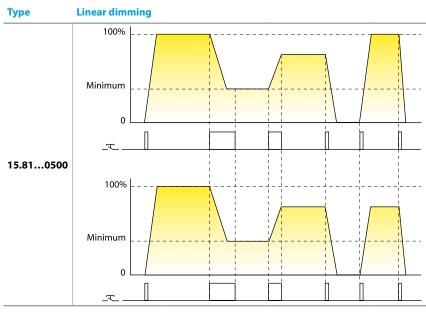


Type 15.81

Thermal protection and signaling

LED (15.81 type only)	Supply voltage	Thermal protection
	OFF	_
	ON	
	ON	ALARM

Functions



ALARM

The internal thermal protection (active on all dimmer types) will detect an unsafe temperature, due to overload or incorrect installation, and will turn the dimmer output off. It is possible to turn the dimmer on, by push button, only when the temperature reduces to a safe level (after 1 to 10 minutes, depending on installation conditions) and after removing the cause of the overload.

Operating mode without memory: at switch-off, the light level is not memorized.

Long control pulse: The light level is progressively raised or lowered in linear way. The lowest value depend on the "minimum dimming level" regulator setting.

Short control pulse: Alternately switches between On and Off between the maximum light level and the off state.

Operating mode with memory: the previous light level is memorized.

Long control pulse: The light level is progressively raised or lowered in linear way. The lowest value dependent on the "minimum dimming level" regulator setting.

Short control pulse: Alternately switches between On and Off. When switching On, the light level assumes the value set during the previous On state.

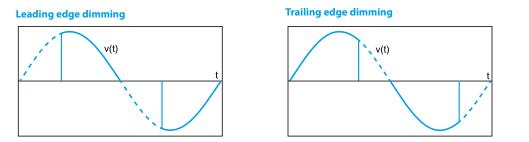
Type of load	Selector setting		Regulator setting		
	With memory (M)	Without memory (M)			
 Incandescent lamps 230 V halogen lamps 12/24 V halogen lamps with electronic transformer/ballast 	¢. €	AN A	It is suggested to set the "minimum dimming level" at the lowest value, so that the complete dimming range is available. But if it is necessary to avoid too low a level of illumination, a higher value can be set.		
Dimmable compact fluorescent lamps (CFL) Dimmable LED lamps			It is suggested to initially set the "minimum dimming level" at an intermediate value and then if necessary, readjust for a level found to be compatible with the lamp being used.	+	
12/24 V halogen lamps with toroidal or E-core electromagnetic transformer			It is suggested to set the "minimum dimming level" at the lowest value, so that the complete dimming range is available. But if it is necessary to avoid too low a level of illumination, a higher value can be set.		

15

SFRIES

Dimming methods

Phase cutting:



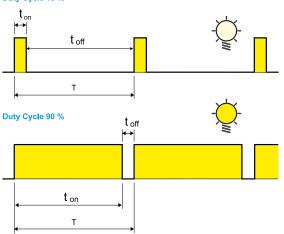
Light dimming is realized with "phase cutting technology", which works by "cutting off" part of the mains voltage waveform in order to reduce the RMS voltage fed to the lamp. When the "cut off" part is at the beginning of each half cycle the dimming method is called Leading Edge. When it is towards the end of each half cycle, it is called Trailing Edge. These 2 methods are suitable for dimming different lamp types: Trailing Edge is, in general, more suitable for electronic transformers for low voltage lamps (halogen or LED). Leading Edge is better suited for electromagnetic transformers for LV lamps, 230 V CFL and 230 V LED lamps. Both methods are, however, suitable for dimming 230 V halogen and incandescent lamps.

In consideration of the different lamp types actually available on the market, it is suggested to refer to the technical specification indicated in page 3 and, if given, to the lamp manufacturer's recommendation.

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.







Types 15.21 and 15.71 (BLE only)

Dimmer setting

The dimming function can be set via Finder YOU app, available for iOS and Adroid 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	1	TE Trailing Edge	Linear 100%
LED 🐥] 🕼	2	LE Leading Edge	0%
LED LED	3	TE Trailing Edge	Exponential 100%
_	4	LE Leading Edge	0%
CFL lamps	5	TE Trailing Edge	Exponential 100%
	6	LE Leading Edge	0%
Electromechanical transformers			Linear 100%
]@	7	LE Leading Edge	0%
AUTO	· · ·	AUTOMATI	c

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.

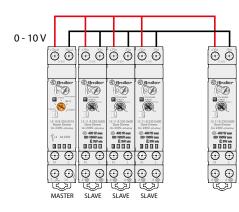
Parameters

Settable via Finder YOU 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 - Types 15.10 and 15.11



This new system is modular, adaptable to every need and allows control of multiple lamps through a single control device called the "Master Dimmer" Type 15.10.8.230.0010.

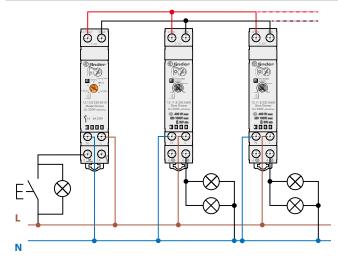
The Master Dimmer, produces a 0 - 10 V signal proportional to the dimming value needed: 0 V corresponds to 0% (light off); 5 V equals 50%, 10 V corresponds to the maximum brightness (100% on).

The 0 - 10 V output signal terminals Yout + / Yout of the "Master Dimmer" must be connected to terminals + Yin / Yin of one or more 15.11.8.230.0400, called the "Slave Dimmers", which have the task of changing the voltage applied to the lamps and therefore their brightness.

The result is a flexible system that offers a range of solutions from the minimum configuration of a Master Dimmer and a Slave Dimmer, up to the maximum configuration of a Master Dimmer and 32 Slave Dimmers.

Each slave can drive a different lamp type, depending on the appropriate methodology, "Leading Edge" or "Trailing Edge". It can regulate halogen lamps, dimmable LED lamps, dimmable CFL lamps, electronic transformers, and electromagnetic transformers.

For example, one Master Dimmer can control a Slave Dimmer with LED lamps and at the same time a second Slave Dimmer with halogen lamps, and a third with electronic transformers.

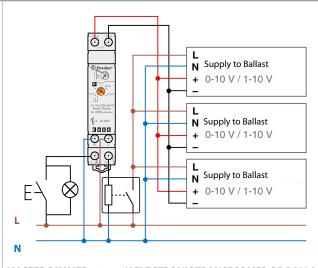


MASTER DIMMER TYPE 15.10 AND SLAVE DIMMER TYPE 15.11

It is recommended that the Master controls from one to a maximum of 32 Slave units.

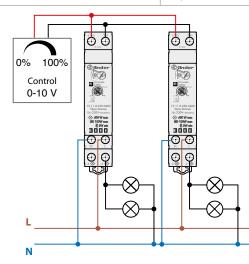
The push-buttons (including illuminated push-buttons Max. 15) serve as the ON / OFF (momentary push), or when pressed for a longer time they adjust the brightness level.

Each Slave can drive a different load type.



MASTER DIMMER + 0 - 10 V ELECTRONIC TRANSFORMER OR BALLAST Using only the Master Dimmer it is possible to control electronic transformers or ballasts with a 0 - 10 V / 1 - 10 V input (observing correct polarity). For 1 - 10 V applications it is suggested to supply the Ballast Live from terminal 14. This will ensure that the supply to the Ballast is cut-off for a signal < 1 V.

Note: Check that the maximum Peak Current of the Ballast does not exceed the 30 A 230 V AC rating of terminal 14. Use a contactor or power relay to switch loads exceeding this value.



BMS 0 - 10 V OUTPUTS + SLAVE DIMMERS

In the case of Home Automation or Building Automation systems you can use just the Slave Dimmer Type 15.11 directly controlled by the 0 - 10 V output of the building management system (BMS), or by 0 - 10 V rotary regulators.

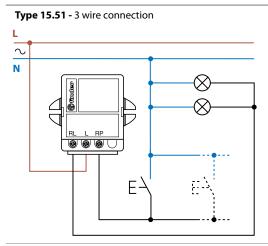




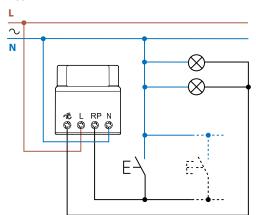
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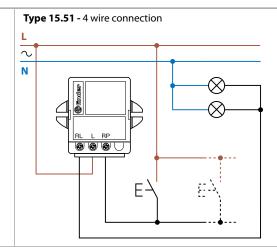
Wiring diagrams - Types 15.51, 15.71, 15.81 and 15.91

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

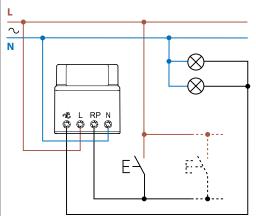


Type 15.91 - 3 wire connection

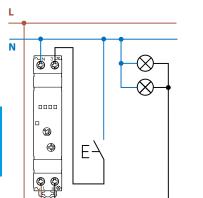




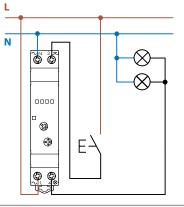
Type 15.91 - 4 wire connection



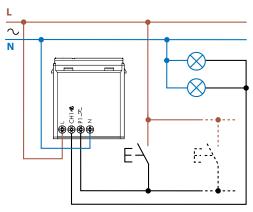
Type 15.81 - 3 wire connection



Type 15.81 - 4 wire connection



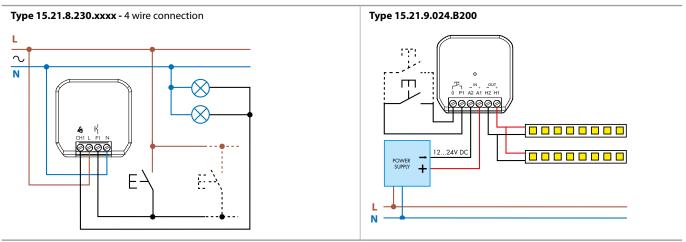
Type 15.71 - 4 wire connection



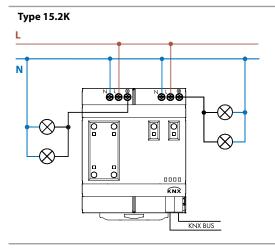


15 SERIES

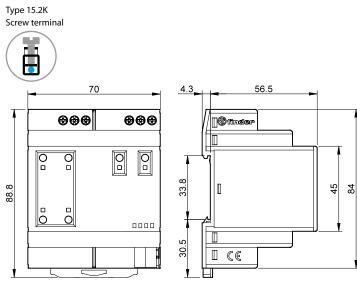
Wiring diagram - Type 15.21



Wiring diagram - Type 15.2K



Outline drawings



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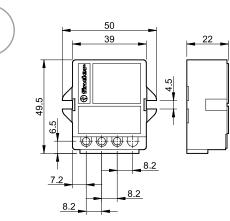


Outline drawings

15 SERIES

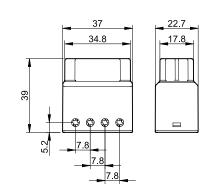
Dimmers





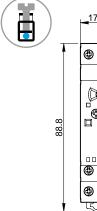
Type 15.91 Screw terminal

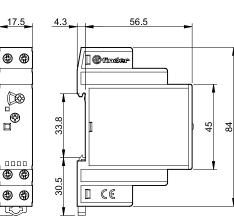




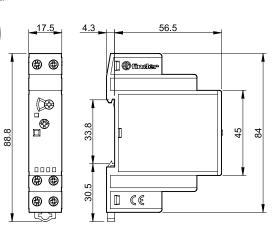
Type 15.10

Screw terminal



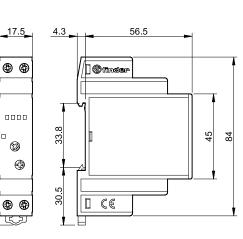


Type 15.11 Screw terminal

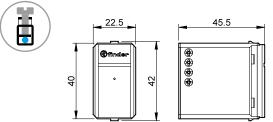


Type 15.81 Screw terminal

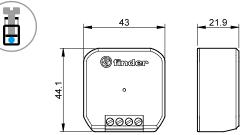
88.8



Type 15.71 - YESLY Screw terminal



Type 15.21 Screw terminal





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15 SERIES Dimmers





Accessories



 Adaptor for panel mounting for types 15.10, 15.11 and 15.81, plastic, 17.5 mm wide
 020.01

 * 17
 7.5
 *



45

5.6



Sheet of marker tags for types 15.10, 15.11 and 15.81, plastic, 48 tags, 6 x 12 mm

Separator for rail mounting, plastic, 9 mm wide for types 15.10, 15.11 and 15.81

45

060.48

022.09



060.48



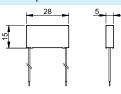
4	8-way jumper link for type 15.10 and 15.11 connection, 17.5 mm wide	022.18 (blue)
Ē	Rated values	10 A - 250 V
5)		
	16.7 17.5 17.5 17.5 17.5 16.7 8.5	



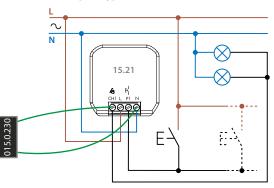
Leakage current suppression module.

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

11.2



Connection example - Type 15.21

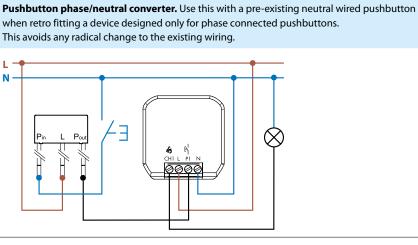






Accessories







013.17

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

013.17

013.00

