

Electronic Relays and Actuators: Multi and Single Function



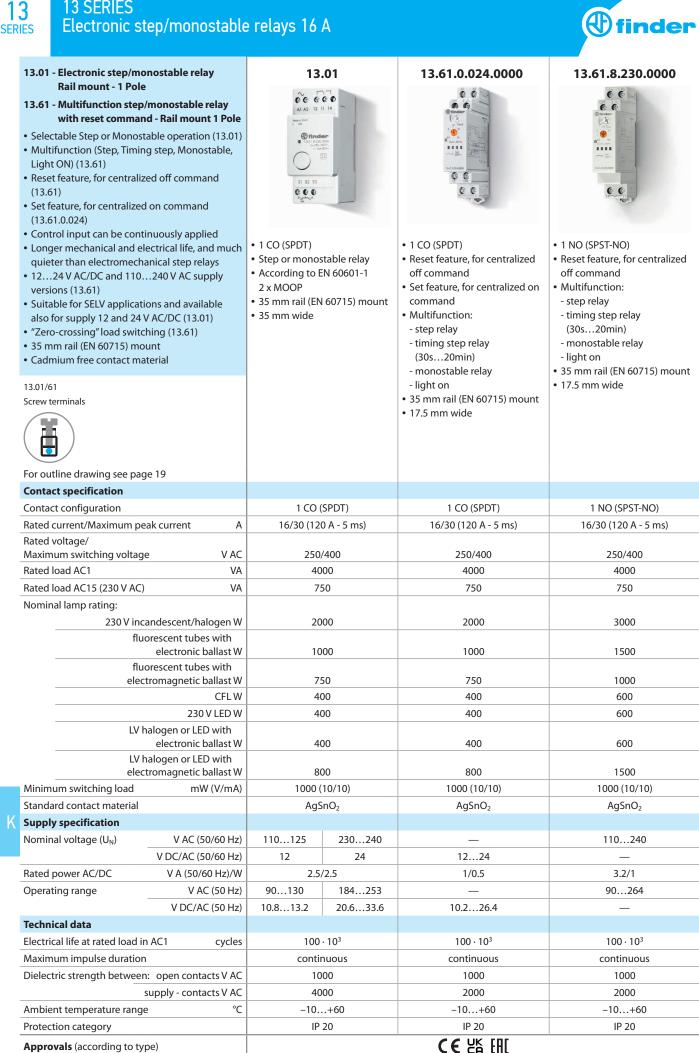
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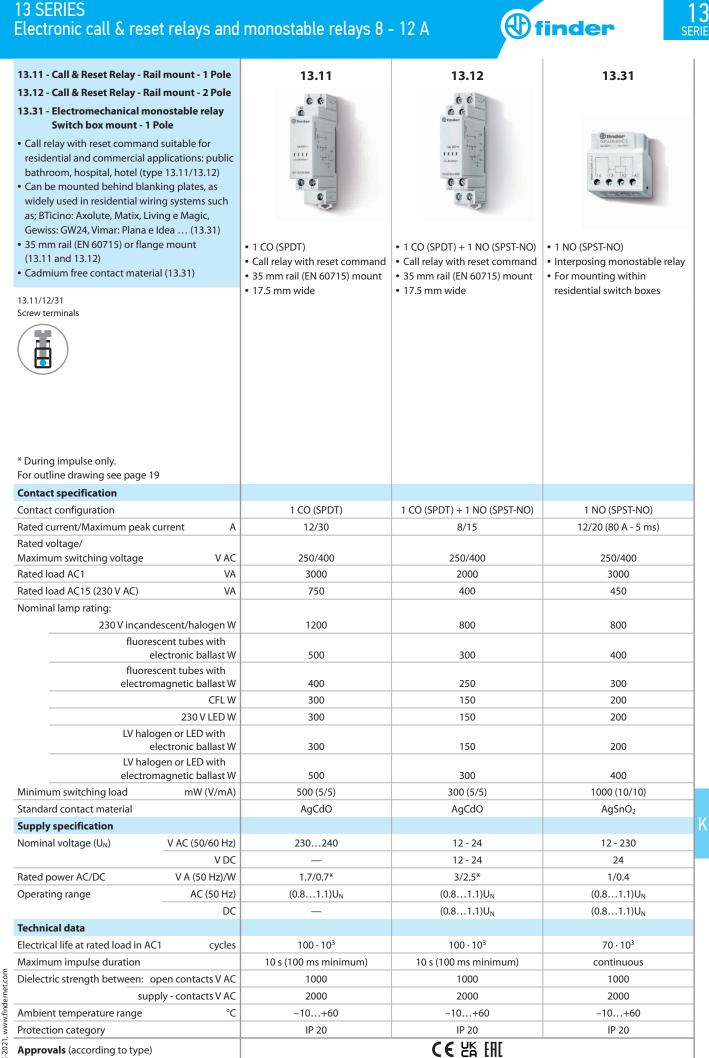
13 SERIES Quiet electronic step relays 10 - 16 A



13 SERIES

13.81 - Quiet electronic step relay - Rail mount - 1 Pole	13.81	13.91			
 13.91 - Quiet electronic step relay and timing step relay Switch box mount - 1 Pole Fixed time (10 minutes) timing function selectable (13.91) Use with 3 or 4 wire connection, with automatic recognition by the relay Control input can be continuously applied Longer mechanical and electrical life, and much quieter than electromechanical step relays "Zero crossing" load switching Can be mounted behind blanking plates, as widely used in residential wiring systems such as; BTicino: Axolute, Matix, Living and Magic, Gewiss: GW24, Vimar: Plana and Idea (13.91) 35 mm rail (EN 60715) mount (13.81) Cadmium free contact material 	 1 NO (SPST-NO) 35 mm rail (EN 60715) mount 17.5 mm wide 	 1 NO (SPST-NO) Step relay and timing step relay (10 minutes) For mounting within residential switch boxes 			
13.81/91 Screw terminals					
Contact specification					
Contact configuration	1 NO (SPST-NO)	1 NO (SPST-NO)			
Rated current/Maximum peak current A	16/30 (120 - 5 ms)	10/20 (80 - 5 ms)			
Rated voltage/					
Maximum switching voltage V AC	230/—	230/—			
Rated load AC1 VA	3700	2300			
Rated load AC15 (230 V AC) VA	750	450			
Nominal lamp rating:	2000	1000			
230 V incandescent/halogen W	3000	1000			
electronic ballast W	1500	500			
fluorescent tubes with					
electromagnetic ballast W	1000	350			
CFLW	600	300			
230 V LED W	600	300			
LV halogen or LED with electronic ballast W LV halogen or LED with	600	300			
electromagnetic ballast W	1500	500			
Minimum switching load mW (V/mA)	1000 (10/10)	1000 (10/10)			
Standard contact material	AgSnO ₂	AgSnO ₂			
Supply specification					
Nominal voltage (U _N) V AC (50/60 Hz)	230	230			
Rated power V A (50 Hz)/W	3/1.2	2/1			
Operating range AC (50 Hz)	(0.81.1)U _N	(0.81.1)U _N			
DC					
Technical data					
Electrical life at rated load in AC1 cycles	100 · 10 ³	100 · 10 ³			
Maximum impulse duration	continuous	continuous			
Dielectric strength between: open contacts V AC	1000	1000			
supply - contacts V AC					
Ambient temperature range °C	-10+60	-10+50			
Drataction catagory	IP 20	IP 20			
Protection category	C€ ヒム [A[@	C€ ‱ ERE @			





Approvals (according to type)



X-2021, www.findernet.com

		-			
Multi and Single function electronic relays with Bluetooth	VEW 13.22	NEW 13.72	13.S2		
13.22 - Electronic multifunction relay	YESLY	YESLY	YESLY		
 2 Pole Round wall box (ie: Ø 60 mm) mounting 21 available functions (step relays, timer, staircase timer) for lighting and fan motor control 13.72 - Electronic multifunction relay 2 Pole Wall mounting, compatible with most popular Italian residential switch boxes: AVE, BTicino, Gewiss, Simon-Urmet, Vimar 21 available functions: step relays, timing 21 available functions: step relays, timing 	Hinden 13222320000 12200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 10	Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Con			
 (1s - 24h), electric shutter, blind or curtain control 13.52 - Electronic roller shutter actuator Round wall box (ie: Ø 60 mm) mounting For electric shutter, blind or curtain control 2 contacts NO 6 A - 230 V AC independent and programmable channels 2 inputs for wired pushbuttons (one input per channel) Transmission range: approximately 10 m in free space and without obstacles 	 Offering a variety of ON/OFF functions associated with lighting and fan motor control Transmission protocol Bluetooth Low Energy (BLE) Safe connection with 128-bit encryption App programming with iOS or Android Smartphone: Finder 	 Offering a variety of ON/OFF functions associated with lighting, electric shutters, blinds or curtains Transmission protocol Bluetooth Low Energy (BLE) Safe connection with 128-bit encryption App programming with iOS or 	 Suitable for electric shutters, blind or curtain control Transmission protocol Bluetooth Low Energy (BLE) Safe connection with 128-bit encryption App programming with iOS or Android Smartphone: Finder TOOLBOX 		
13.22/52/72 Screw terminals	TOOLBOX • Can be managed through standard pushbuttons, BEYON and Type 013.89 wireless buttons	Android Smartphone: Finder TOOLBOX • Can be managed through standard pushbuttons, BEYON and Type 013.B9 wireless buttons	 Can be managed through standard pushbuttons, BEYON and Type 013.B9 wireless buttons 		
NOTE: with 110125 V AC supply, the Ratings (AC1, AC15 and lamp loads) must be reduced by 50 % (e.g. 100 W instead of 200 W) For outline drawing see page 20					
Contact specification					
Contact configuration	2 NO (DPST-NO)	2 NO (DPST-NO)	2 NO (DPST-NO)		
Rated current/Maximum peak current A	6/40	6/40	6/40		
Rated voltage/ Maximum switching voltage V AC	230/—	230/—	230/—		
Rated load AC1 VA	1380	1380	1380		
Rated load AC15 (230 V AC) VA	300	300	300		
Single phase motor rating (230 V AC) W	200	200	200		
Nominal lamp rating 230V: incandescent/halogen W	200	200	_		
fluorescent tubes with electronic ballast W	200	200 200			
fluorescent tubes with electromagnetic ballast W	200	200	_		
CFL W	200	200			
LED 230 V W	200	200	_		
LV halogen or LED with electronic ballast W	200	200	_		
LV halogen or LED with	200	202			
electromagnetic ballast W Supply specification	200	200	—		
Nominal voltage (U _N) V AC (50/60 Hz)	110230	110230	110230		
V DC Rated power AC/DC VA (50 Hz)/W	2/0.5	2/0.5	2/0.5		
Rated power AC/DCVA (50 Hz)/WOperating rangeAC (50 Hz)	(0.81.1)U _N	(0.81.1)U _N	(0.81.1)U _N		
DC	(0.01.1)0 _N		(0.01.1)U _N		
Technical data					
Electrical life at rated load in AC1 cycles	60 · 10 ³	60 · 10 ³	60 · 10 ³		
Maximum impulse duration	continuous	continuous	continuous		
Dielectric strength between: open contacts VAC	1000	1000	1000		
Ambient temperature range °C	-10+50	-10+50	-10+50		
Protection category	IP 20	IP 20	IP 20		
Approvals (according to type)	CE 24	CE	CE LK		

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Bluetooth single channe	el multifunction relay	13.21.8.230.8000	I3.21.8.230.S000				
Type 13.21.8.230.B000							
- BLE communication prot	tocol	YESLY	BLISS2				
- Round wall box (ie: Ø 6	0 mm) mounting						
- 12 available functions		(り finder 13.21.8.230.8000	13.21.8.230.5000				
 Up to 8 scenarios Pushbutton Phase or N 	le start e service e the se	UL 230V~ SOUW 230V~ Music in Net/	Un 230 V~- ————————————————————————————————————				
Radio frequency remote	actuator for BLISS2	****	*****				
Type 13.21.8.230.S000 - 868 MHz long-range ra transmission	dio frequency						
 Multi-zone heating/cod Hygrostat function con thermostat 	-	 1 CO (SPDT) 16 A 250 V AC Bluetooth Low Energy (BLE) 	 1 CO (SPDT) 16 A 250 V AC Compatible with Bliss2 smart thermostat 				
- Compatible with the Bl	LISS2 smart thermostat	transmission protocol 128-bit encrypted connection 	• Heating/cooling systems -				
13.21 Screw terminals		• Programmable via TOOLBOX App Finder compatible with	direct or solenoid control It can be used in dehumidification or forced 				
		iOS and Android operating	ventilation systems				
		systemsIt can be connected to wired	ventilation systems				
		buttons or to BEYON and					
		013B9 wireless buttons					
		Recess mounting					
For outline drawing see p	age 20						
Contact specification	<u>,</u>						
Contact configuration		1 CO (SPDT)	1 CO (SPDT)				
Rated current/Maximum	peak current A	16	16				
Rated voltage/							
Maximum switching volta	age V AC	250	250				
Rated load AC1	VA	3600	3600				
Rated load AC15 (230 V A	C) VA	600	600				
Single phase motor rating	g (230 V AC) W	500	500				
Nominal lamp rating 230	V:						
i	ncandescent/halogen W	1000	—				
f	luorescent tubes with electronic ballast W	500	_				
f	luorescent tubes with						
el	ectromagnetic ballast W	350	—				
	CFL W	300	—				
	LED 230 V W	200	—				
L\	V halogen or LED with electronic ballast W	200					
	V halogen or LED with	500					
	ectromagnetic ballast W	500	—				
Supply specification		110 000	110 000				
Nominal voltage (U_N)	V AC (50/60 Hz) V DC						
Rated power AC/DC	V A (50 Hz)/W	2.8 / 0.8	2.8 / 0.8				
Operating range	AC (50 Hz)	(0.81.1)U _N	(0.81.1)U _N				
	DC	_	_				
Technical data							
Electrical life at rated load	l in AC1 cycles	50 · 10 ³	50 · 10 ³				
Maximum impulse durati		continuous	_				
Dielectric strength betwe		1000	1000				
Ambient temperature ran	•	-10+50	-10+50				
Protection category	. <u></u>	IP 20	IP 20				
	turna)						
Approvals (according to	(ype)	CE R	CE KA				

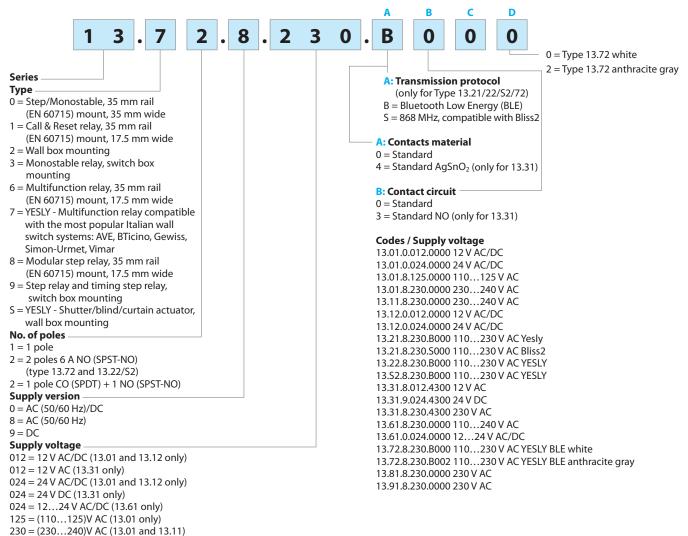


Ordering information

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Example: Multifunction relay with YESLY Bluetooth, 2 contacts 6 A NO (SPST-NO), 110...230 V AC supply.



Technical data

230 = 110...240 V AC (13.61 only) 230 = 230 V AC (13.31, 13.81 and 13.91) 230 = 110...230 V AC (13.21, 13.22, 13.72, 13.S2)

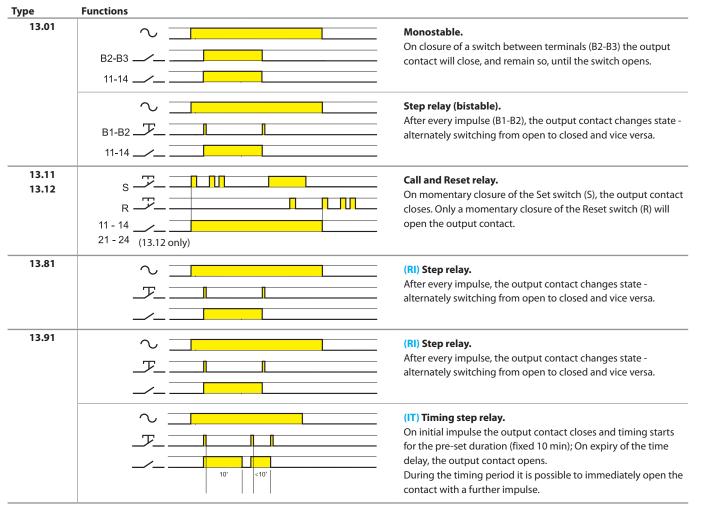
	13.01.8 13.01.0		13.11 - 13.12	13.31 - 13.61		13.81 - 13.91				
th										
' AC	4000 —			—		—				
' AC	4000	4000	—	—			—			
' AC	—	_	2000	_	_		—			
' AC	4000	4000	—	2000)		—			
' AC	1000	1000	1000	1000			1000			
	13	.01	13.11 - 13.12	13.3	1	13.61	13.81	13.91	13.21	13.22 13.52 13.72
W	2	2.2		0.4		1	1.2	0.7	0.4	0.5
W	3	5.5	1.5	1.6		1.8	2	1.8	2.2	1.5
m	100		100	_		200	200	100	100	100
mA)	_		—	— 10*		10*	15 12 -		—	5
Terminals 13.01		13.11 - 13.12 - 13.31 - 13.61 - 13.72 - 13.81 - 13.91			13.21 - 13.22 - 13.52					
	solid cable stranded cable		solid cable	stranded cable		solid cable		stranded cable		
nm²	1 x 6 / 2 x 4	1 x 6 / 2 x 2.5	1 x 6 / 2 x 4	1	1 x 4	/ 2 x 2.5	1 x 2.5	/ 2 x 1.5	1 x	2.5 / 2 x 1
WG	1 x 10 / 2 x 12 1 x 10 / 2 x 14		1 x 10 / 2 x 12	1 x 12 / 2 x 14		14 1 x 14 / 2 x 16 1 x 14		14/2x16		
Nm	0.8		0.8			0.5				
	m mA) mm ²	/ AC 4000 / AC 4000 / AC 4000 / AC 4000 / AC 1000 / AC 1000 13 W 22 W 23 m 11 mA)	/ AC 4000 / AC 4000 4000 / AC / AC 4000 4000 / AC 1000 1000 / MC 1000 1000 // M 2.2 // M 3.5 m 100 mA) // MAD mm ² solid cable stranded cable 1x6/2x4 1x6/2x2.5 WG 1x10/2x14 1x10/2x14	/ AC 4000 / AC 4000 4000 / AC 2000 / AC 4000 4000 / AC 4000 4000 / AC 4000 1000 1000 / AC 1000 1000 1000 / AC 1000 1000 1000 // AC 100 100 100 // AC 100 100 100 // MV 3.5 1.5 100 mA) // MAC 13.11 - 13.12 13.72 - 13.81 mAD MAD mMAD 1x6/2x4 1x6/2x2.5 1x6/2x4 1x6/2x4 1x6/2x2.5 1x6/2x4	AC 4000 — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … … <td>AC 4000 — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _<td>AC 4000 /AC 4000 4000 /AC 2000 /AC 4000 4000 2000 /AC 4000 1000 1000 1000 /AC 1000 1000 1000 1000 /AC 13.11 - 13.12 13.31 13.61 W 2.2 0.4 1 W 3.5 1.5 1.6 1.8 m 100 200 10* mA) 100 200 mA) 100 200 mA) 100 200 mA) 10* 18* mA) 10* 13.72 - 13.81 - 13* 13* 10* 13* mM2 1x6/2x4 1x6/2x2.5 1x6/2x4 <t< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></t<></td></td>	AC 4000 — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ <td>AC 4000 /AC 4000 4000 /AC 2000 /AC 4000 4000 2000 /AC 4000 1000 1000 1000 /AC 1000 1000 1000 1000 /AC 13.11 - 13.12 13.31 13.61 W 2.2 0.4 1 W 3.5 1.5 1.6 1.8 m 100 200 10* mA) 100 200 mA) 100 200 mA) 100 200 mA) 10* 18* mA) 10* 13.72 - 13.81 - 13* 13* 10* 13* mM2 1x6/2x4 1x6/2x2.5 1x6/2x4 <t< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></t<></td>	AC 4000 /AC 4000 4000 /AC 2000 /AC 4000 4000 2000 /AC 4000 1000 1000 1000 /AC 1000 1000 1000 1000 /AC 13.11 - 13.12 13.31 13.61 W 2.2 0.4 1 W 3.5 1.5 1.6 1.8 m 100 200 10* mA) 100 200 mA) 100 200 mA) 100 200 mA) 10* 18* mA) 10* 13.72 - 13.81 - 13* 13* 10* 13* mM2 1x6/2x4 1x6/2x2.5 1x6/2x4 <t< td=""><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></t<>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

* For 8.230 version.



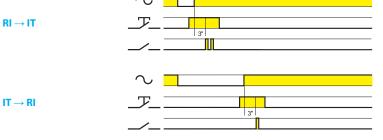


Functions for types 13.01, 13.11, 13.12, 13.81, 13.91



Operating mode setup for type 13.91

 $RI \rightarrow IT$



- a) Remove the supply voltage
- b) Press the control button
- c) Apply the supply to the relay, keeping the button closed. After 3 second, the light will flash twice to indicate the selection of the "IT" function, or flash once for "RI" function.

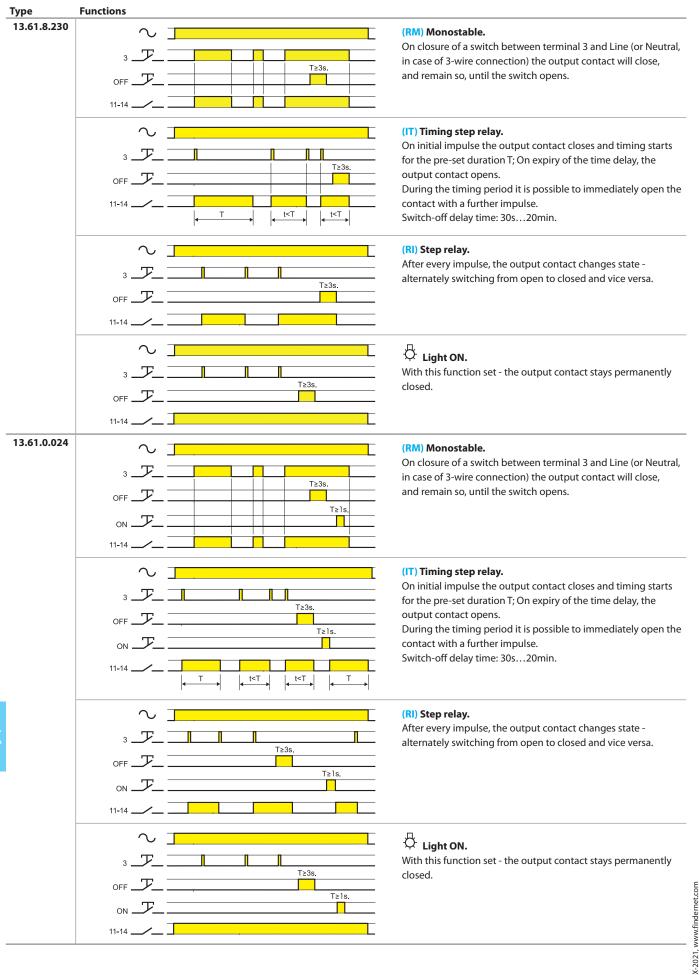
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Functions for type 13.61

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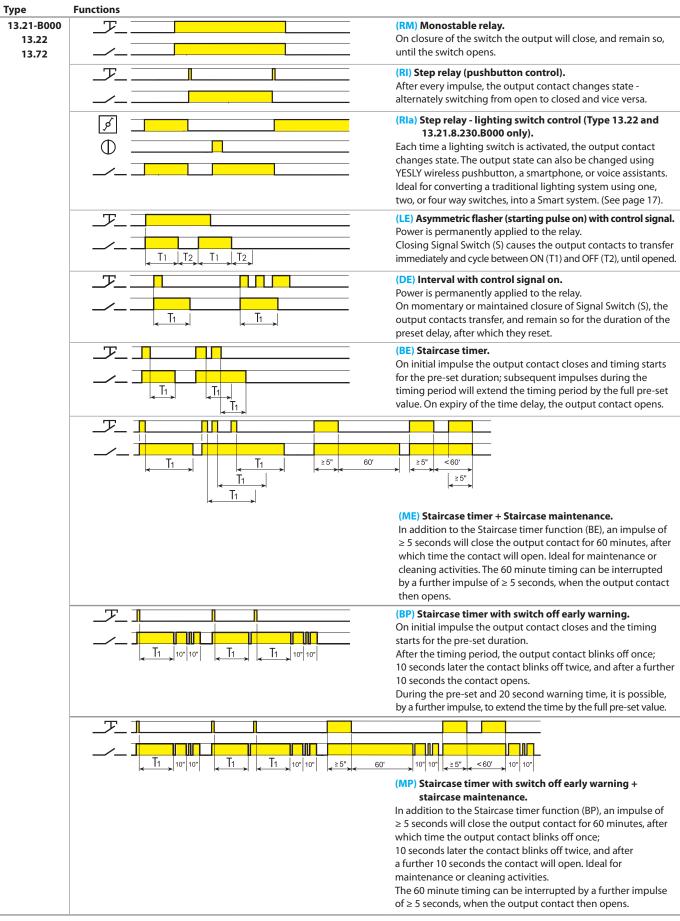


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Functions for type 13.22, 13.72 and 13.21.8.230.B000

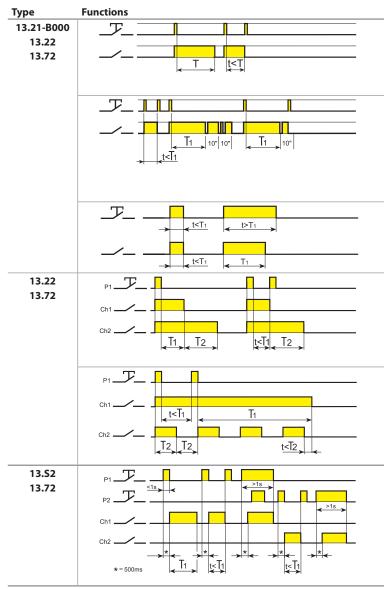
Relay settings

Multifunction electronic relays can be configured with the Finder TOOLBOX App, available for iOS or Android systems. This product is ready-to-use preset with the factory setting (RI) Step relay on both channels.





Functions for type 13.22, 13.72, 13.21.8.230.B000 and 13.S2



Sequences

P1 (SET): press to advance through the sequence

P2 (RESET): press to return to Step 1

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(IT) Timing step relay.

On initial impulse the output contact closes and timing starts. On expiry of the time delay, the output contact opens. During the timing period it is possible to immediately open the contact with a further impulse.

(IP) Timing step relay with switch off early warning.

On initial impulse the output contact closes and timing starts. After the timing period, the output contact blinks off once; 10 seconds later the contact blinks off twice, and after a further 10 seconds the contact opens.

During the pre-set and 20 second warning time, it is possible to immediately open the output contact by a further impulse.

(FZ) Timing monostable.

The output will be closed when the switch is closed, except where the switch is closed for greater than the preset time T1 - in which case the output contact opens.

(VB) Bathroom light + fan.

Channels Ch1 and Ch2 both close when the P1 command is pressed. At the expiry of T1 Ch1 opens and after a further delay of T2, Ch2 opens.

Ch1 can be prematurely opened by another press of P1.

(CP) Ringbell + light.

A press to P1 closes Ch1 for the pre-set time T1. While Ch1 is closed Ch2 executes a blinking function, at a rate set by T2. Subsequent presses to P1 extends the Ch1 closed time by re-triggering T1.

(TP) Roller shutter.

A short press (<1 second) to P1 ("up" pushbutton) initiates a 500ms delay before Ch1 closes for time T1. Pressing P1 again within time period T1 will immediately open Ch1 contact. If P1 is closed for more than 1 second the Ch1 contact will open immediately P1 opens.

The same operation applies to P2 and Ch2 contact, used to control the "down" function.

Turne	Functions	Sequences				
Туре	Functions	1	2	3	4	
13.22 13.72	02	łł	ŀŀ			
	03					
	04	$\frac{1}{1}$	44		Ч	
	05	$\frac{1}{1}$		ζì	44	
	06			44		
	07	$\frac{1}{1}$	44			
	08	$\frac{1}{1}$	ĻΪ	11		



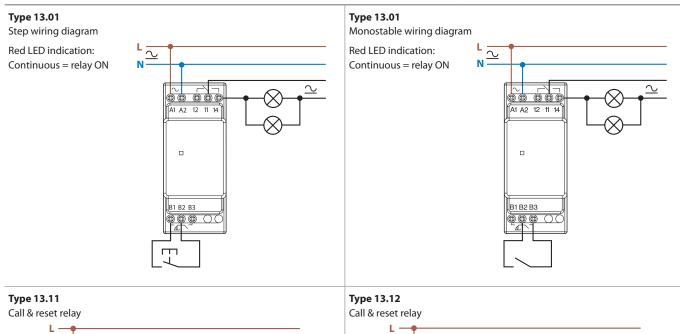
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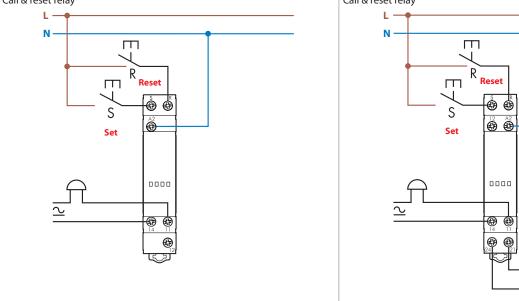
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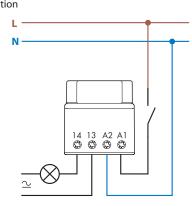
SERIES

Wiring diagrams (13.01, 13.11, 13.12 and 13.31)





Type 13.31 Connection

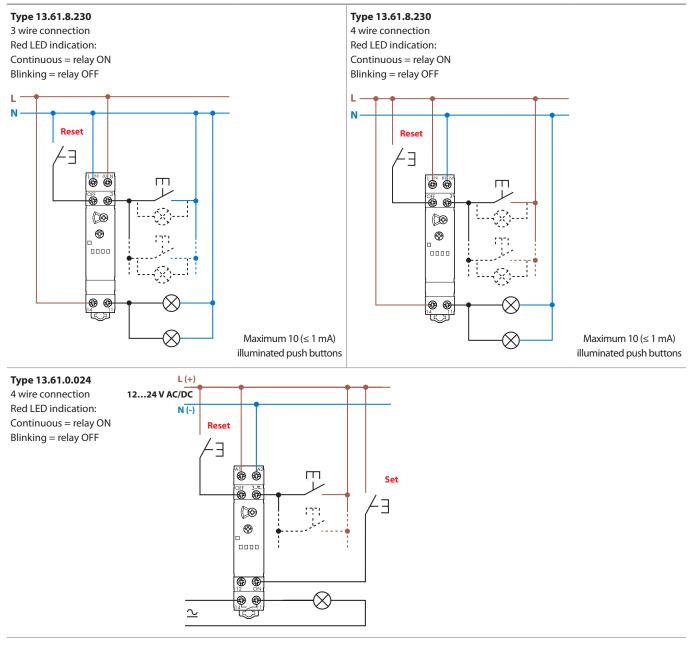


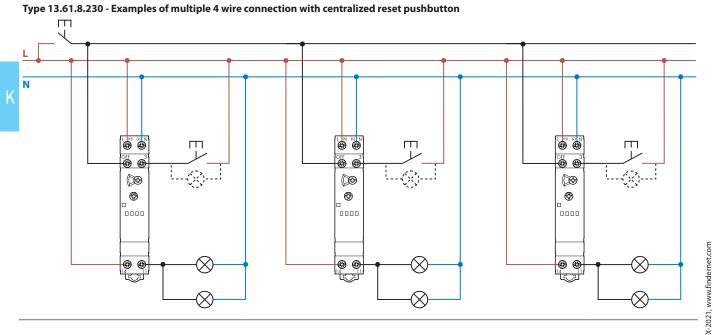
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Wiring diagrams (13.61)



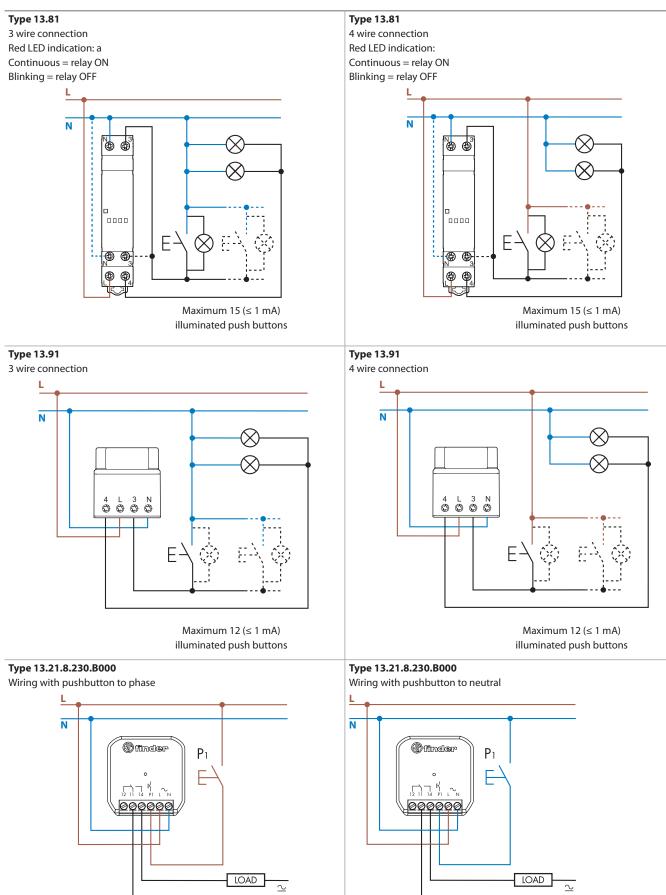




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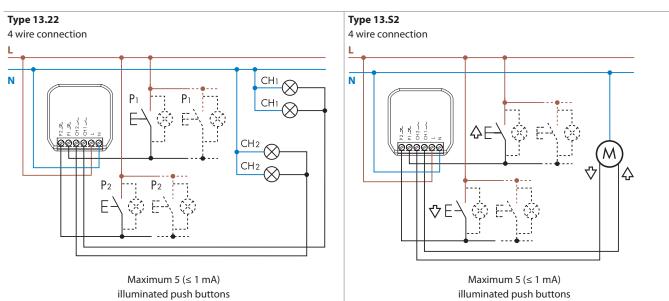
Wiring diagrams (13.81, 13.91 and 13.21.8.230.B000)



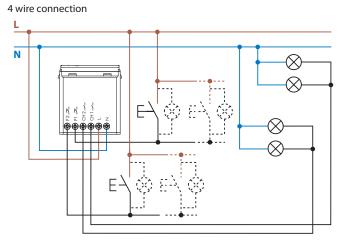
Note: If the load is powered by a phase other than the one that powers the 13.21, a 50% reduction in the lamp capacity must be considered (set the "Different phase" function from the Toolbox Plus app).

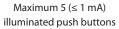


Wiring diagrams (13.21.8.230.5000, 13.22, 13.52 and 13.72)



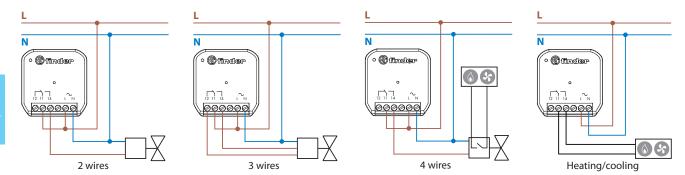






Type 13.21.8.230.S000

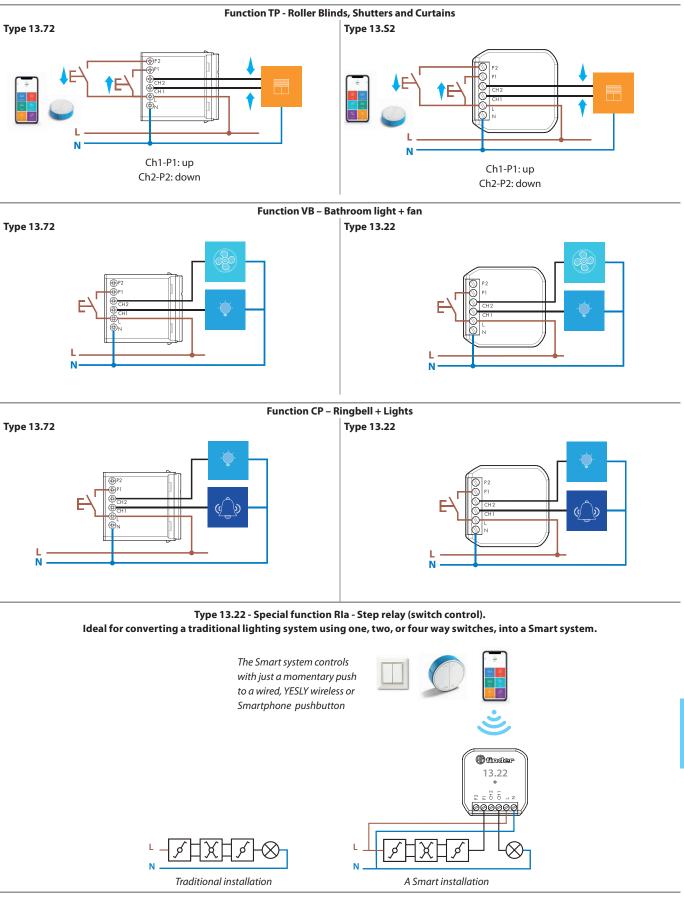
Solenoid valve with 2, 3 and 4 wires or direct connection



Example of connection with a 230 V AC solenoid valve, always refer to the technical characteristics of the solenoid valve.



Examples of applications

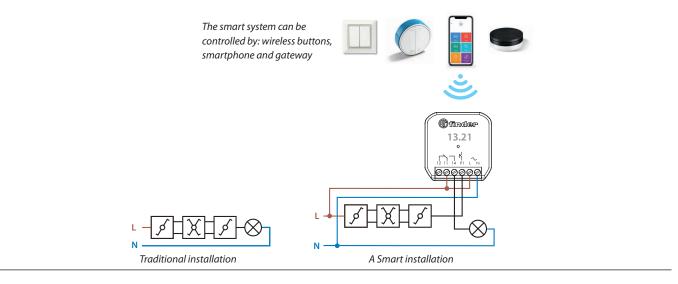






Examples of applications

Type 13.21.8.230 - Special function RIa - Step relay (switch control). Ideal for converting a traditional lighting system using one, two, or four way switches, into a Smart system. Any existing system can be made Smart with minimum change or disruption

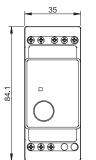


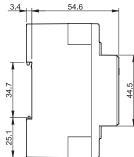


Outline drawings

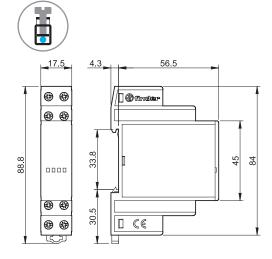
Type 13.01 Screw terminal



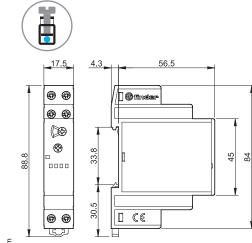




Type 13.12 Screw terminal

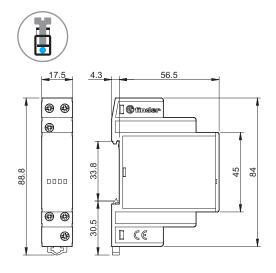


Type 13.61 Screw terminal



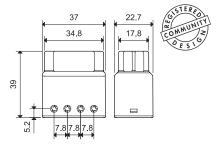
X-2021, www.findernet.com

Type 13.11 Screw terminal

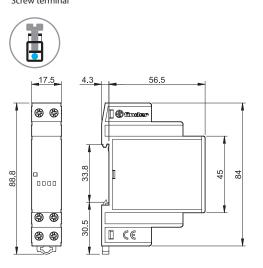


Types 13.31/13.91 Screw terminal





Type 13.81 Screw terminal



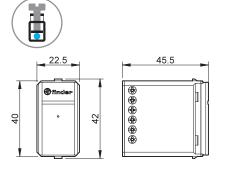
K



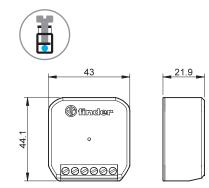


Outline drawings

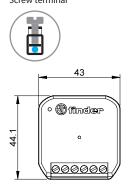


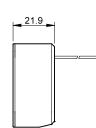






Type 13.21.8.230.S000 Screw terminal





Accessories

	Adaptor for panel mounting, for type 13.01, 35 mm wide	011.01
011.01		
10×		
	Adaptor for panel mounting, for type 13.11, 13.12, 13.61 and 13.81, 17.5 mm wide	020.01
020.01		
* 1 	Sheet of marker tags (CEMBRE Thermal transfer printers) for relays types	

060.48

Sheet of marker tags (CEMBRE Thermal transfored 13.11, 13.12, 13.61 and 13.81 (48 tags), 6 x 12 mm

060.48

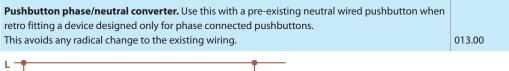


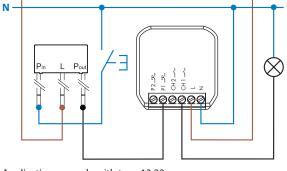
13

SERIES

Accessories







Application example with type 13.22



013.17

Adapter for DIN rail, to install devices 13.22, 13.21, 13.52 in the electrical panel.

013.17

