finder

13 Series - Electronic step/monostable & call/reset relays 8 - 16 A

Features	13.01	() 13.12	
 13.01 - Quiet operating electronic step/ monostable relay 1 Pole output contact 13.12 - Call & Reset Relay 2 Pole output contact Selectable Step or Monostable operation (type13.01) Call relay with reset command suitable for residential and commercial applications: public bathroom, hospital, hotel (type 13.12). 		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
 Control input can be continuously applied Longer mechanical and electrical life, and much quieter than electromechanical step relays Suitable for SELV applications according to IEC 364, (type 13.01) Type 13.01 available also for supply 	 Step or monostable relay 35 mm rail (EN 60715) mount 	• Call relay with reset command •1 CO (SPDT) + 1 NO (SPST-NO) • 35 mm rail (EN 60715) mount • 17.5 mm wide	
 Type 13.01 available also for supply 12 and 24 V AC/DC Type 13.12 available at 12 V AC/DC and 24 V AC only 35 mm rail (EN 60715) mount Cadmium free contact material (type 13.01) 	35 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102253 102555 102555 102555 102555 102555 102555 102555 102555 1025	88 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
 * For version 24 V U_{max} = 33.6 V ** During impulse only. 	54.6 42.3 96 58 58 58 58		
Contact specification			
Contact configuration	1 CO (SPDT)	1 CO (SPDT) + 1 NO (SPST-NO)	
Rated current/Maximum peak current A	16/30 (120 A - 5 ms) 8/15		
Rated voltage/Maximum switching voltage V AC	250/400	250/400	
Rated load AC1 VA	4,000	2,000	
Rated load AC15 (230 V AC) VA	750	400	
Nominal lamp rating: incandescent (230 V) W	2,000	800	
compensated fluorescent (230 V) W	750	250	
uncompensated fluorescent (230 V) W	1,000	400	
halogen (230 V) W Minimum switching load mW (V/mA)	2,000	800	
Standard contact material	AgSnO ₂	300 (5/5) AgCdO	
Supply specification		Ayeue	
Nominal voltage (U _N) V AC (50/60 Hz)	12 - 24 * - 110125 - 230240	12 - 24	
V DC	12 - 24 *	12-24	
Rated power AC/DC V AC (50 Hz)/W	2.5/2.5	3/2.5 **	
Operating range AC (50 Hz)	(0.81.1)U _N	(0.81.1)U _N	
	(0.91.1)U _N	(0.81.1)U _N	
Technical data	,	(0.0	
Electrical life at rated load in AC1 cycles	100 · 10 ³ 100 · 10 ³		
Maximum impulse duration	continuous	continuous	
Dielectric strength between: open contacts VAC	1,000	1,000	
supply - contacts V AC	4,000	2,000	
Ambient temperature range °C	-10+60	-10+60	
Protection category	IP 20	IP 20	
Approvals (according to type)			

Inder

13 Series - Electronic step relays 10 - 16 A

Features

- 13.71 Quiet operation electronic step rel 1 Pole output contact
- 13.81 Quiet operation electronic step rela Rail mount - 1 Pole output contact
- 13.91 Quiet operation electronic step rel and timing step relay (10 minutes)
- Use with 3 or 4 wire connection, with automatically recognition by the relay
- Control input can be continuously applied
- Longer mechanical and electrical life, and n quieter than electromechanical step relays
- Can be mounted behind blanking plates, c widely used in residential wiring systems s as; BTicino: Axolute, Matix, Living e Magic Gewiss: GW24, Vimar: Plana e Idea ... (type 13.91)
- Box clamp terminals (type 13.81 and 13.9 "Zero crossing" load switching
- (type 13.81 and 13.91) • 35 mm rail (EN 60715) or flange mount

Contact specification Contact configuration

Rated load AC1

Rated current/Maximum peak current Rated voltage/Maximum switching voltage V

Nominal lamp rating: incandescent (230 V)

compensated fluorescent (230 V) uncompensated fluorescent (230 V)

halogen (230 V)

supply - contacts VAC

°C

Rated load AC15 (230 V AC)

Minimum switching load

Nominal voltage (U_N)

Rated power

Operating range

Technical data

Standard contact material Supply specification

Electrical life at rated load in AC1

Dielectric strength between: open contacts VAC

Maximum impulse duration

Ambient temperature range

Approvals (according to type)

Protection category

• Cadmium free contact material

		Licenonic siep			
	13.71	() 13.81	13.91		
ectronic step relays ct ectronic step relay output contact ectronic step relay ny (10 minutes) ection, ion by the relay					
uously applied ctrical life, and much ical step relays anking plates, as viring systems such , Living e Magic,	 1 NO (SPST-NO) Panel mount Screw terminals 	 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 		
ana e Idea 13.81 and 13.91) hing flange mount erial			37 34.8 17.8		
	1 NO (SPST-NO)	1 NO (SPST-NO)	1 NO (SPST-NO)		
eak current A itching voltage V AC	10/20 (120 A - 5 ms) 230/-	16/30 (120 A - 5 ms) 230/-	10/20 (80 A - 5 ms) 230/—		
VA	2,300	3,700	2,300		
(C) VA	450	750	450		
descent (230 V) W	1,000	3,000	800		
orescent (230 V) W	350	1,000	300		
orescent (230 V) W	500	1,000	400		
alogen (230 V) W	1,000	3,000	800		
m₩ (V/mA)	1,000 (10/10)	1,000 (10/10)	1,000 (10/10)		
	AgSnO ₂	AgSnO ₂	AgSnO ₂		
V AC (50/60 Hz)	230	230	230		
V DC	_	-	-		
V AC (50 Hz)/W	1.5/1.2	3/1.2	2/1		
AC (50 Hz)	(0.851.15)U _N	(0.81.1)U _N	(0.81.1)U _N		
DC	_	_	-		
in AC1 cycles	100 · 10 ³	100 · 10 ³	100 · 10 ³		
	continuous	continuous	continuous		
	commoods				

1,000

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-10...+60

IP 20

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1,000

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-10...+50

IP 20

CE

1,000

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-10...+60

IP 20

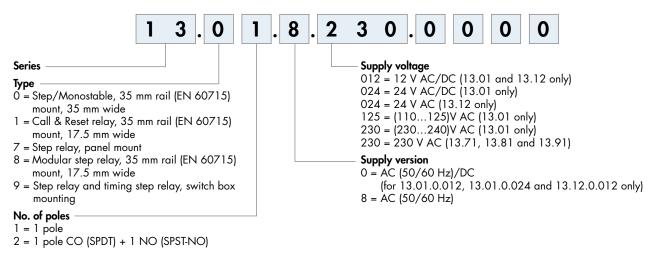
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Ordering information

Example: 13 series, electronic step/monostable relay, 35 mm rail (EN 60715) mount, 1 CO (SPDT) 16 A contact, 230 V AC supply.

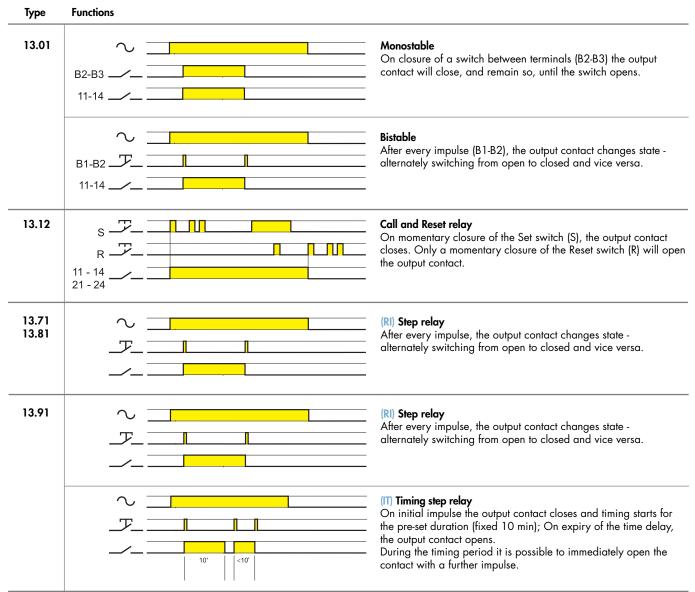


Technical data

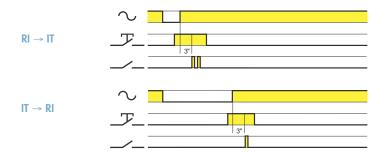
Insulation		13.01.8	13.01.0	13.12		13.71 - 13.81 - 13.91	
Dielectric strength							
between control circuit and supply VAC		4,000	_	_		—	
between control circuit and contacts V AC		4,000	4,000	_		_	
between R-S-A2 and contacts	V AC	_	—	2,000		_	
between supply and contacts	V AC	4,000	4,000	_		_	
between open contacts	V AC	1,000	1,000	1,000		1,000	
Other data 13.0		.01	13.12	13.71	13.81	13.91	
Power lost to the environment							
without contact current	W	2.2		_	0.5	1.2	0.7
without rated current	W	3.5		1.5	2.9	2	1.8
Max cable lenght for push-button connection m		100		100	100	200	100
Max. no. of illuminated push-button	(≤ 1mA)	_		_	15	15	12
Terminals		13.01		13.71		13.12 - 13.81 - 13.91	
Max. wire size		solid cable	stranded cable	solid cable	stranded cable	solid cable	stranded cable
	mm ²	1x6 / 2x4	1x6 / 2x2.5	1x2.5 / 2x2.5	1x2.5 / 2x2.5	1x6 / 2x4	1x4 / 2x2.5
	AWG	1x10 / 2x12	1x10 / 2x14	1x12 / 2x14	1x14 / 2x14	1x10 / 2x12	1x12 / 2x14
Generation Screw torque	Nm	0.8		0.8		0.8	



Functions



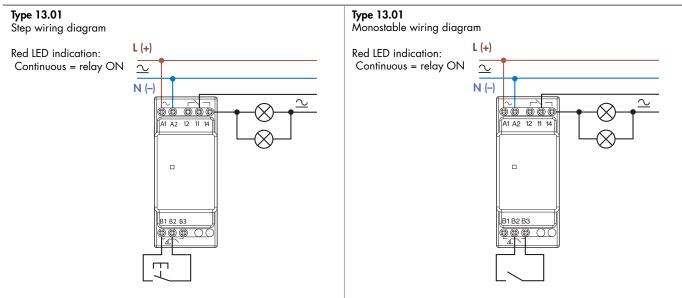
Operating mode setup for type 13.91



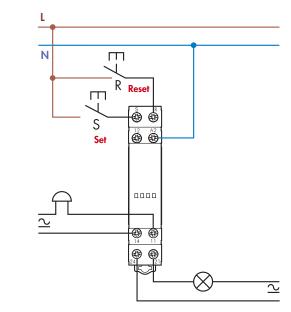
- a) Remove the supply voltage
- b) Press the control button
- c) Apply the supply to the relay, keeping the button closed. After 3 second, the light will flash twice to indicate the selection of the "IT" function, or flash once for "RI" function.

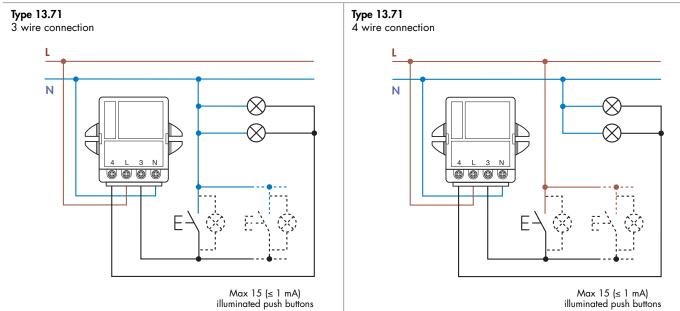


Wiring diagrams (13.01, 13.12 and 13.71)











Wiring diagrams (13.81 and 13.91)

