		es - Liechonic siep			
Features	13.81	13.91			
 13.81 - Electronic step relay - Rail mount - 1 Pole 13.91 - 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 	 I NO (SPST-NO) Step relay and timing step relay (10 minutes) For mounting within residential switch boxes 			
13.81/91 Screw terminal					
Contact configuration	1 NO (SPST-NO)	1 no (spst-no)			
Rated current/Maximum peak current A	16/30 (120 A - 5 ms)	10/20 (80 A - 5 ms)			
Rated voltage/Maximum switching voltage V AC	230/-	230/-			
Rated load AC1 VA	3,700	2,300			
Rated load AC15 (230 V AC) VA	750	450			
Nominal lamp rating: 230V incandescent/halogen W	3,000	1,000			
fluorescent tubes with electronic ballast W	1,500	500			
fluorescent tubes with electromechanical ballast W	1,000	350			
CFL W	600	300			
230V LED W		300			
LV halogen or LED with electronic ballast W		300			
LV halogen or LED with electromechanical ballast W		500			
Minimum switching load mW (V/mA)		1,000 (10/10)			
Standard contact material	AgSnO ₂	AgSnO ₂			
Supply specification					
Nominal voltage (U _N) V AC (50/60 Hz)		230			
V DC		-			
Rated power V A (50 Hz)/W		2/1			
Operating range AC (50 Hz		(0.81.1)U _N			
DC	-	_			
Technical data	100 103	100 · 10 ³			
Electrical life at rated load in AC1 cycles					
Maximum impulse duration		continuous			
Dielectric strength between: open contacts V AC supply - contacts V AC		1,000			
Ambient temperature range					
Protection category	IP 20	IP 20			
Approvals (according to type)					
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13 SERIES finder

13 Series - Electronic step/monostable relays 16 A

	Features	13.01	🚳 13.61
	 13.01 - Electronic step/monostable relay Rail mount - 1 Pole 13.61 - Multifunction step/monostable relay with reset command - Rail mount 1 Pole Selectable Step or Monostable operation (13.01) Multifunction (Step, Timing step, Monostable, Light ON) (13.61) Reset feature, for centralized off command (13.61) Control input can be continuously applied Longer mechanical and electrical life, and much quieter than electromechanical step relays 110240 V AC supply, 50/60 Hz (13.61) Suitable for SELV applications and available also for supply 12 and 24 V AC/DC (13.01) "Zero-crossing" load switching (13.61) 35 mm rail (EN 60715) mount Cadmium free contact material 	 1 CO (SPDT) Step or monostable relay 35 mm rail (EN 60715) mount 35 mm wide 	 I NO (SPST-NO) Multifunction: step relay timing step relay monostable relay light on Reset feature, for centralized off command 35 mm rail (EN 60715) mount 17.5 mm wide
	13.01/61 Screw terminal * For version 24 V U _{max} = 33.6 V For outline drawing see page 8		
	Contact specification		
	Contact configuration	1 CO (SPDT)	1 NO (SPST-NO)
	Rated current/Maximum peak current A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)
	Rated voltage/Maximum switching voltage V AC	250/400	250/400
	Rated load AC1 VA	4,000	4,000
	Rated load AC15 (230 V AC) VA	750	750
	Nominal lamp rating: 230V incandescent/halogen W fluorescent tubes with electronic ballast W	2,000	3,000
	fluorescent tubes with electromechanical ballast W	1,000 750	1,500
	CFL W	400	600
	230V LED W	400	600
	LV halogen or LED with electronic ballast W	400	600
	LV halogen or LED with electromechanical ballast W	800	1,500
	Minimum switching load mW (V/mA)	1,000 (10/10)	1,000 (10/10)
	Standard contact material	AgSnO ₂	AgSnO ₂
	Supply specification		
SU		12 - 24 * - 110125 - 230240	110240
itio	V DC	12 - 24 *	_
olice.	Rated power AC/DC V A (50/60 Hz)/W	2.5/2.5	3.2/1
ap	Operating range V AC (50 Hz)	(0.81.1)U _N	90264
Residential applications	DC	(0.91.1)U _N	_
en	Technical data		
esic	Electrical life at rated load in AC1 cycles	100 · 10 ³	100 · 10 ³
ž	Maximum impulse duration	continuous	continuous
	Dielectric strength between: open contacts V AC	1,000	1,000
	supply - contacts V A	4,000	2,000
	Ambient temperature range °C	-10+60	-10+60
	Protection category	IP 20	IP 20
	Approvals (according to type)	(€	C
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13 Series - Electronic call/reset relays and monostable relays 8 - 12 A

finder 13 Series - E	lectronic call/reset r	elays and monostab	le relays 8 - 12 A
Features	13.11	13.12	13.31
Features 13.11 - Call & Reset Relay - Rail mount - 1 Pole 13.12 - Call & Reset Relay - Rail mount - 2 Pole 13.31 - Electromechanical monostable relay Switch box mount - 1 Pole • Call relay with reset command suitable for residential and commercial applications: public bathroom, hospital, hotel (type 13.11/13.12) • Can be mounted behind blanking plates, as widely used in residential wiring systems such as; BTicino: Axolute, Matix, Living e Magic, Gewiss: GW24, Vimar: Plana e Idea (13.31) • 35 mm rail (EN 60715) or flange mount (13.11 and 13.12) • Cadmium free contact material (13.31)	 13.11 Image: Figure 1 and the second sec	13.12 Figure 1 (SPDT) + 1 NO (SPST-NO) • 1 CO (SPDT) + 1 NO (SPST-NO) • Call relay with reset command • 35 mm rail (EN 60715) mount • 17.5 mm wide	 13.31 Image: second system 1 NO (SPST-NO) Interposing monostable relay For mounting within residential switch boxes
 13.11/12/31 Screw terminal The second se			
Contact specification		1 CO (SPDT) + 1 NO (SPST-NO)	
Contact configuration Rated current/Maximum peak current A	1 CO (SPDT) 12/30	8/15	1 NO (SPST-NO) 12/20 (80 A - 5 ms)
Rated voltage/Maximum switching voltage V AC	250/400	250/400	250/400
Rated load AC1 VA	3,000	2,000	3,000
Rated load AC15 (230 V AC) VA	750	400	450
Nominal lamp rating: 230V incandescent/halogen W	1,200	800	800
fluorescent tubes with electronic ballast W	500	300	400
fluorescent tubes with electromechanical ballast W	400	250	300
CFL W	300	150	200
230V LED W	300	150	200
LV halogen or LED with electronic ballast W	300	150	200
LV halogen or LED with electromechanical ballast W	500	300	400
Minimum switching load mW (V/mA)	500 (5/5)	300 (5/5)	1,000 (10/10)
Standard contact material	AgCdO	AgCdO	AgSnO ₂
Supply specification	-	-	-
Nominal voltage (U _N) V AC (50/60 Hz)	230240	12 - 24	12 - 230
V DC	_	12 - 24	24
Rated power AC/DC V A (50 Hz)/W	1.7/0.7 *	3/2.5 *	1/0.4
Operating range AC (50 Hz)	(0.81.1)U _N	(0.81.1)U _N	(0.81.1)U _N
DC	_	(0.81.1)U _N	(0.81.1)U _N
Technical data			
Electrical life at rated load in AC1 cycles	100 · 10 ³	$100 \cdot 10^3$	70 · 10 ³
Maximum impulse duration	continuous (100 ms minimum)	continuous (100 ms minimum)	continuous
Dielectric strength between: open contacts VAC	1,000	1,000	1,000
supply - contacts VAC	2,000	2,000	2,000
Ambient temperature range °C	-10+60	-10+60	-10+60
Protection category	IP 20	IP 20	IP 20
Approvals (according to type)		(6 👁	CE

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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

230 = 110...240 V AC (13.61 only) 230 = 230 V AC (13.31, 13.81 and 13.91)

Insulation		13.01.8	13.01.0	13.11 - 13.12	13.31 - 13.61			13.81 - 13.91	
Dielectric strength									
between control circuit and supply	V AC	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	_	2,000 —		_	_	
between open contacts	V AC	1,000	1,000	1,000	1,000			1,000	
Other data		13.01		13.11 - 13.12	13.31	13.61		13.81	13.91
Power lost to the environment									
without contact current	W	2	.2	_	0.4	1		1.2	0.7
with rated current	W	3	.5	1.5	1.6	1.8		2	1.8
Max cable lenght for push-button connectio	n m	100		100	_	200		200	100
Max. no. of illuminated push-button (<	:1mA)	-	_	_	_	10		15	12
Terminals		13.01		13.11 - 13.12 - 13.31 - 13.61 - 13.81 -			13.91		
Max. wire size		solid cable	stranded cable	solid cable		stranded cable			
	mm ²	1x6 / 2x4	1x6 / 2x2.5	1x6 / 2x4	4 1x4 / 2x2.5				
	AWG	1x10/2x12	1x10 / 2x14	1x10 / 2x12			1x12 /	/ 2x14	
Gerew torque	Nm	m 0.8 0.8							

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Functions





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Wiring diagrams (13.01, 13.11, 13.12 and 13.31)



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13 SERIES

Wiring diagrams (13.61, 13.81 and 13.91)



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13 SERIES

Outline drawings





13.12 Screw terminal

































13 Series - Electronic step relays

Accessories



Adaptor for panel mounting, for type 13.01, 35 mm wide

Adaptor for panel mounting, for type 13.11, 13.12, 13.61 and 13.81, 17.5 mm wide

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020.01

020.01

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Sheet of marker tags for type 13.11, 13.12, 13.61 and 13.81, plastic, 72 tags, 6x12 mm 060.72

060.72