

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

13.81/91
Screw terminals



For outline drawing see page 12

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:			
230 V incandescent/halogen W		3000	1000
fluorescent tubes with electronic ballast W		1500	500
fluorescent tubes with electromechanical ballast W		1000	350
CFL W		600	300
230 V LED W		600	300
LV halogen or LED with electronic ballast W		600	300
LV halogen or LED with electromechanical 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
	V DC	—	—
Rated power	V A (50 Hz)/W	3/1.2	2/1
Operating range	AC (50 Hz)	(0.8...1.1)U _N	(0.8...1.1)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
Protection category		IP 20	IP 20

Approvals (according to type)



13.81



- 1 NO (SPST-NO)
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

13.91



- 1 NO (SPST-NO)
- Step relay and timing step relay (10 minutes)
- For mounting within residential switch boxes

**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)
- Set feature, for centralized on command (13.61.0.024)
- Control input can be continuously applied
- Longer mechanical and electrical life, and much quieter than electromechanical step relays
- 12...24 V AC/DC and 110...240 V AC supply versions (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

13.01/61

Screw terminals



For outline drawing see page 12

Contact specification

Contact configuration		1 CO (SPDT)	1 CO	1 NO
Rated current/Maximum peak current	A	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)	16/30 (120 A - 5 ms)
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	4000	4000	4000
Rated load AC15 (230 V AC)	VA	750	750	750
Nominal lamp rating:				
230 V incandescent/halogen W		2000	2000	3000
fluorescent tubes with electronic ballast W		1000	1000	1500
fluorescent tubes with electromechanical ballast W		750	750	1000
CFL W		400	400	600
230 V LED W		400	400	600
LV halogen or LED with electronic ballast W		400	400	600
LV halogen or LED with electromechanical ballast W		800	800	1500
Minimum switching load	mW (V/mA)	1000 (10/10)	1000 (10/10)	1000 (10/10)
Standard contact material		AgSnO ₂	AgSnO ₂	AgSnO ₂

K Supply specification

Nominal voltage (U _N)	V AC (50/60 Hz)	110...125	230...240	—	110...240
	V DC/AC (50/60 Hz)	12	24	12...24	—
Rated power AC/DC	V A (50/60 Hz)/W	2.5/2.5	—	1/0.5	3.2/1
Operating range	V AC (50 Hz)	90...130	184...253	—	90...264
	V DC/AC (50 Hz)	10.8...13.2	20.6...33.6	10.2...26.4	—

Technical data

Electrical life at rated load in AC1	cycles	100 · 10 ³	100 · 10 ³	100 · 10 ³
Maximum impulse duration		continuous	continuous	continuous
Dielectric strength between:	open contacts V AC	1000	1000	1000
	supply - contacts V AC	4000	2000	2000
Ambient temperature range	°C	-10...+60	-10...+60	-10...+60
Protection category		IP 20	IP 20	IP 20

Approvals (according to type)

13.01


- 1 CO (SPDT)
- Step or monostable relay
- 35 mm rail (EN 60715) mount
- 35 mm wide

NEW
13.61.0.024.0000


- 1 CO (SPDT)
- Reset feature, for centralized off command
- Set feature, for centralized on command
- Multifunction:
 - step relay
 - timing step relay (30s...20min)
 - monostable relay
 - light on
- 35 mm rail (EN 60715) mount
- 17.5 mm wide

13.61.8.230.0000


- 1 NO (SPST-NO)
- Reset feature, for centralized off command
- Multifunction:
 - step relay
 - timing step relay (30s...20min)
 - monostable relay
 - light on
- 35 mm rail (EN 60715) mount
- 17.5 mm wide