

Step relays



Lighting control
in corridors (for
hotels, offices
and hospitals)



Bedroom
light control



Living room
light control



27
SERIES

1 or 2 Pole electromechanical step relay, for electrically common coil and contact circuits

- 7 versions, with different switching sequences
- Box clamp connections
- AC coil
- Can be mounted behind blanking plates
- Cadmium free contact material

27.0x
Box clamp


* The lamp rating may vary, depending on the number and type of lamps, consequently it is suggested to consider the inrush current and $I^2 t$

For outline drawing see page 6

Contact specification

Contact configuration		1 NO (SPST-NO)		2 NO (DPST-NO)		1 NO +1 NC (SPST-NO + SPST-NC)	
Rated current	A	10		10		10	
Inrush current/specific energy (I²t)	A/A² s	200/16		200/16		200/16	
Rated voltage	V AC	110	230	110	230	110	230
Rated load AC1	VA	1100	2300	1100	2300	1100	2300
Rated load AC15	VA	250	500	250	500	250	500
Nominal lamp rating: *							
Incandescent/halogen W		900	1800	900	1800	900	1800
LED lamps W		100	300	100	300	100	300
LED surface luminaires W		300	600	300	600	300	600
LED strips W		1000	2000	1000	2000	1000	2000
LV halogen or LED with electronic drivers W		500	1000	500	1000	500	1000
Minimum switching load	mW	500		500		500	
Standard contact material		AgSnO₂		AgSnO₂		AgSnO₂	

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	110	230	110	230	110	230
	V DC	—		—		—	
Pickup/continuous power	VA (50 Hz)	4.8/4.8		4.8/4.8		4.8/4.8	
Operating range	AC (50 Hz)/AC (60 Hz)	(0.8...1.1) U_N / (0.85...1.1) U_N		(0.8...1.1) U_N / (0.85...1.1) U_N		(0.8...1.1) U_N / (0.85...1.1) U_N	
	DC	—		—		—	

Technical data

Mechanical life AC/DC	cycles	300 · 10 ³		300 · 10 ³		300 · 10 ³	
Electrical life at rated load in AC1	cycles	100 · 10 ³		100 · 10 ³		100 · 10 ³	
Max no. of illuminated push-button	(≤ 1 mA)	5		5		5	
Minimum/Maximum impulse duration		0.1 s/1 h (according to EN 60669)		0.1 s/1 h (according to EN 60669)		0.1 s/1 h (according to EN 60669)	
Ambient temperature range	°C	-40...+40		-40...+40		-40...+40	
Protection category		IP 20		IP 20		IP 20	

Approvals (according to type)


1 or 2 Pole electromechanical step relay, for electrically common coil and contact circuits

- 7 versions, with different switching sequences
- Box clamp connections
- AC coil
- Can be mounted behind blanking plates
- Cadmium free contact material
- Connect up to 15 illuminated push buttons

27.2x
Box clamp



*The lamp rating may vary, depending on the number and type of lamps, consequently it is suggested to consider the inrush current and $I^2 t$

For outline drawing see page 6

Contact specification

Contact configuration	1 NO (SPST-NO)	2 NO (DPST-NO)	1 NO + 1 NC (SPST-NO + SPST-NC)
Rated current	A	10	10
Inrush current/specific energy ($I^2 t$)	A/A ² s	200/16	200/16
Rated voltage	V AC	230	230
Rated load AC1	VA	2300	2300
Rated load AC15	VA	500	500
Nominal lamp rating: *			
Incandescent/halogen W	1800	1800	1800
LED lamps W	300	300	300
LED surface luminaires W	600	600	600
LED strips W	2000	2000	2000
LV halogen or LED with electronic drivers W	1000	1000	1000
Minimum switching load	mW	500	500
Standard contact material	AgSnO ₂	AgSnO ₂	AgSnO ₂

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	230	230	230
	V DC	—	—	—
Pickup/continuous power	VA (50 Hz)	14/0.8	14/0.8	14/0.8
Operating range	AC (50 Hz)/AC (60 Hz)	$(0.8 \dots 1.1) U_N / (0.85 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N / (0.85 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N / (0.85 \dots 1.1) U_N$
	DC	—	—	—

Technical data

Mechanical life AC/DC	cycles	$300 \cdot 10^3$	$300 \cdot 10^3$	$300 \cdot 10^3$
Electrical life at rated load in AC1	cycles	$100 \cdot 10^3$	$100 \cdot 10^3$	$100 \cdot 10^3$
Max no. of illuminated push-button (≤ 1 mA)		15	15	15
Minimum/Maximum impulse duration		0.1 s/continuous	0.1 s/continuous	0.1 s/continuous
Ambient temperature range	°C	-40...+40	-40...+40	-40...+40
Protection category		IP 20	IP 20	IP 20

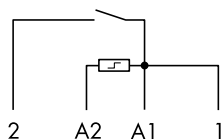
Approvals (according to type)


NEW 27.21

EVO



- Single phase switch
1 NO (SPST-NO)
- With coil power limiter

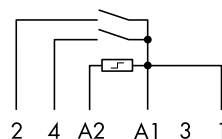


NEW 27.22/24/25/26/28

EVO



- 2 double phase switch
2 NO (DPST-NO)
- With coil power limiter

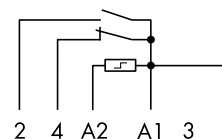


NEW 27.23

EVO



- 1 NO + 1 NC
(SPST-NO + SPST-NC)
- With coil power limiter



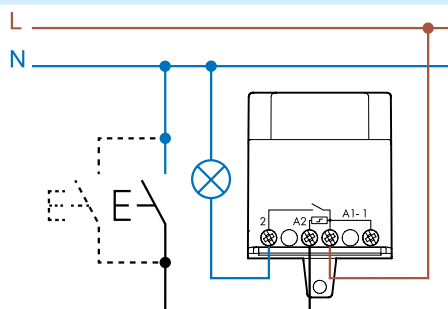
Ordering information

Example: 27 series, box clamp, single phase switch 1 NO (SPST-NO) 10 A contact, coil rated 230 V AC.

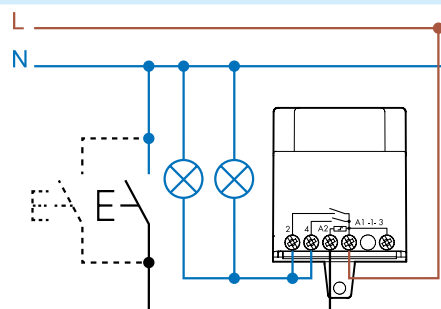
	2	7	.	0	1	.	8	.	2	3	0	.	4	.	0	.	0	.	0
Series													Contact material 4 = AgSnO ₂						
Type													Coil voltage See coil specifications						
0 = Box clamp 2 = Box clamp, with coil power limiter													Coil version 8 = AC (50/60 Hz)						
No. of poles																			
1 = Single phase switch 1 NO (SPST-NO)																			
2 = Double phase switch 2 NO (DPST-NO)																			
3 = Double phase switch 1 NO + 1 NC (SPST-NO + SPST-NC)																			
4 = 4 sequences double phase switch 2 NO (DPST-NO)																			
5 = 4 sequences double phase switch 2 NO (DPST-NO)																			
6 = 3 sequences double phase switch 2 NO (DPST-NO)																			
8 = 4 sequences double phase switch 2 NO (DPST-NO)																			

Wiring diagram

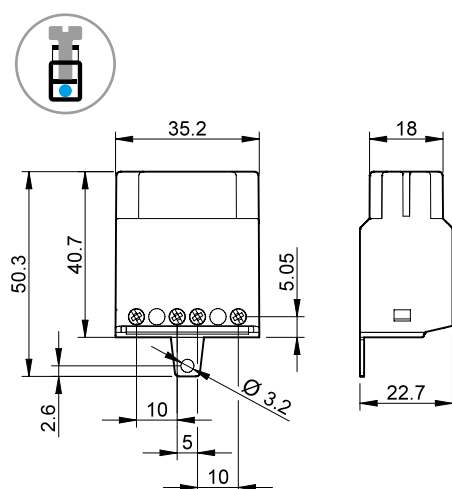
Version with 1 NO output



Version with 2 NO outputs



Outline drawing

Version with 1 NO output
Box clampVersion with 2 NO outputs
Box clamp