finder
RELAYING INNOVATION

Step relays



- Lighting control in corridors (for hotels, offices and hospitals)
- Bedroom light control
- Living room light control

27
SERIES

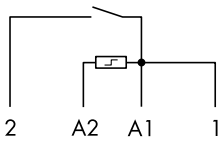
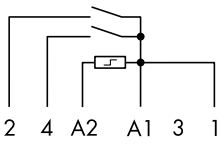
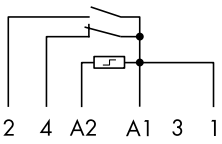
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1 or 2 Pole electromechanical step relay, for electrically common coil and contact circuits

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

27.0x
Box clamp



NEW 27.01	NEW 27.02/04/05/06/08	NEW 27.03
		
• Single phase switch 1 NO (SPST-NO)	• 2 double phase switch 2 NO (DPST-NO)	• 1 NO + 1 NC (SPST-NO + SPST-NC)
		

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

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 (I^2t)	A/A^2s	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		$AgSnO_2$		$AgSnO_2$		$AgSnO_2$		
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	$300 \cdot 10^3$		$300 \cdot 10^3$		$300 \cdot 10^3$		
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)	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)								

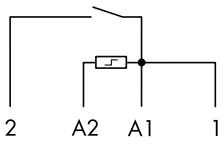
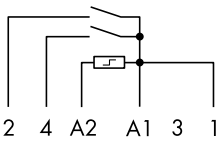
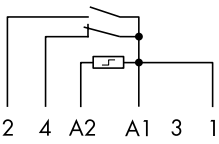
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1 or 2 Pole electromechanical step relay, for electrically common coil and contact circuits

- 7 versions, with differents 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



	NEW 27.21 EVO	NEW 27.22/24/25/26/28 EVO	NEW 27.23 EVO
			
	• Single phase switch 1 NO (SPST-NO) • With coil power limiter	• 2 double phase switch 2 NO (DPST-NO) • With coil power limiter	• 1 NO + 1 NC (SPST-NO + SPST-NC) • With coil power limiter
			

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

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 (I^2t)		A/A^2s	200/16	200/16	200/16
Rated voltage		V AC	230	230	230
Rated load AC1		VA	2300	2300	2300
Rated load AC15		VA	500	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	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)		$(0.8…1.1)U_N / (0.85…1.1)U_N$	$(0.8…1.1)U_N / (0.85…1.1)U_N$	$(0.8…1.1)U_N / (0.85…1.1)U_N$
	DC		—	—	—
Technical data					
Mechanical life AC/DC		cycles	$300 \cdot 10^3$	$300 \cdot 10^3$	$300 \cdot 10^3$
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)			CE UK CA EAC		

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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

Type
0 = Box clamp
2 = Box clamp, with coil power limiter

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)

Coil version
8 = AC (50/60 Hz)

Coil voltage
See coil specifications

Contact material
4 = $AgSnO_2$

Technical data

Insulation					
Dielectric strength					
between open contacts	V AC	1000			
Other data		**27.01/21**		**27.05/06/25/26**	
Power lost to the environment with rated current and coil de-energised	W	0.9		1.8	
Screw torque	Nm	0.5		0.5	
Max. wire size		solid cable	stranded cable	solid cable	stranded cable
	mm^2	1 x 2.5 / 2 x 1.5	1 x 2.5 / 2 x 1.5	1 x 2.5 / 2 x 1.5	1 x 2.5 / 2 x 1.5
	AWG	1 x 14 / 2 x 16	1 x 14 / 2 x 16	1 x 14 / 2 x 16	1 x 14 / 2 x 16

Coil specifications

Types 27.0x

Nominal voltage	Coil code	Operating range (50 Hz)		Resistance	Consumption I at U_N
U_N		U_{min}	U_{max}	R	(50 Hz)
V		V	V	Ω	mA
110	**8**.110	88	121	1400	42.0
230	**8**.230	184	253	6250	20.0

Types 27.2x

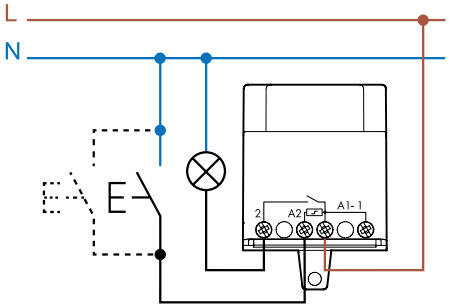
Nominal voltage	Coil code	Operating range (50 Hz)		Resistance	Consumption	
					pick up	continuous
U_N		U_{min}	U_{max}	R	I at U_N (50 Hz)	I at U_N (50 Hz)
V		V	V	Ω	mA	mA
230	**8**.230	184	253	2550	60	3.5

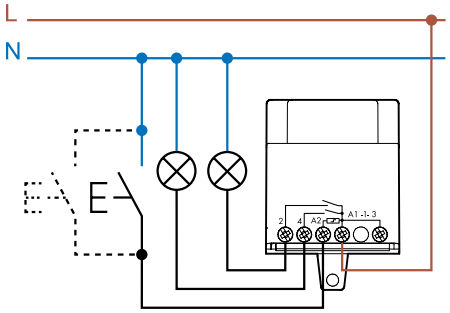
Type	Sequence/steps			
	1	2	3	4
27.01/21				
27.02/22				
27.03/23				
27.04/24				
27.05/25				
27.06/26				
27.08/28				

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Wiring diagram

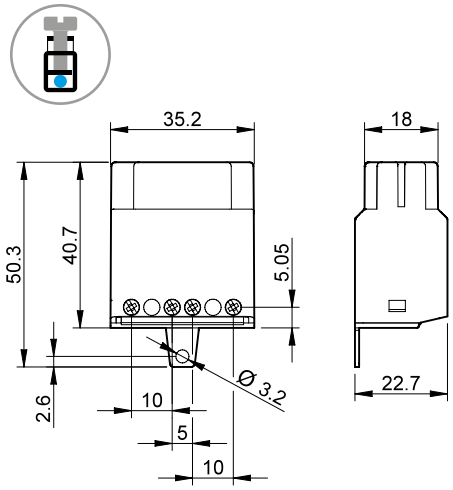
Version with 1 NO output	Version with 2 NO outputs



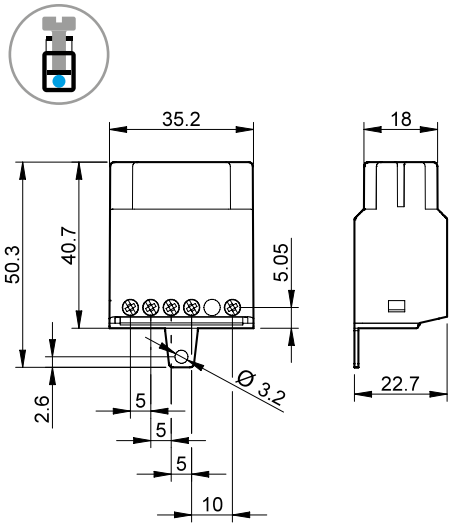


Outline drawing

Version with 1 NO output
Box clamp



Version with 2 NO outputs
Box clamp



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