

- Electronic step relays
- Control circuit can be used continuously
- Longer mechanical and electrical life, and much quieter than electromechanical step relays
- Suitable for SELV applications (according to IEC 364), type 13.01
- 35 mm rail (EN 50022) or flange mount

	<b>13.01</b>	<b>13.71</b>
	<ul style="list-style-type: none"> <li>- Low voltage supply 12-24 V</li> <li>- Step or monostable relay</li> <li>- 35 mm rail mount</li> </ul>	<ul style="list-style-type: none"> <li>- 1 NO</li> <li>- Panel mount</li> <li>- Screw terminals</li> </ul>
<b>Contact specifications</b>		
Contact configuration	1 NO	1 NO
Rated current/Max. peak current      A	16/30 (100 A · 5 ms)	10/20 (100 A · 5 ms)
Rated voltage/Max. switching voltage   V AC	250/400	230/—
Rated load in AC1                           VA	4,000	2,300
Rated load in AC15 (230 VAC)           VA	750	450
Nominal lamp rating: incandescence (230V) W	2,000	1,000
compensated fluorescent (230V) W	750	350
uncompensated fluorescent (230V) W	1,000	500
halogens (230V) W	2,000	1,000
Minimum switching load                   mW(V/mA)	1,000 (10/10)	1,000 (10/10)
Standard contact material	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>
<b>Supply specifications</b>		
Nominal voltage                            V AC (50/60Hz)	12-24-110...125 - 230...240	230
V DC	12 - 24	—
Rated power AC/DC                        V AC (50Hz)/W	2.5/2.5	1.5/—
Operating range                            AC (50Hz)	(0.8...1.1)U <sub>N</sub>	(0.85...1.15)U <sub>N</sub>
DC	(0.9...1.1)U <sub>N</sub>	—
<b>Technical data</b>		
Electrical life at rated load in AC1      cycles	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Maximum impuls duration	continuous	continuous
Dielectric strenght between: open contacts V AC	1,000	1,000
supply contacts V AC	4,000	—
Ambient temperature range               °C	-10...+60	-10...+60
Protection category	IP 20	IP 20
<b>Approvals:</b> (according to type)		

## ORDERING INFORMATION

Example: a 13 series, electronic step or monostable relay, 35 mm rail mount and 1 NO - 16 A contact, with 230 V AC supply.

**1 3 . 0 1 . 8 . 2 3 0 . 0 0 0 0**

**Series**

**Type**

0 = 35 mm rail (EN 50022) mount  
7 = Panel mount

**No. of poles**

1 = Single phase switch 1 NO

**Supply voltage**

012 = 12 V AC/DC

024 = 24 V AC/DC

125 = 110...125 V AC

230 = 230...240 V AC

230 = 230 VAC (13.71 only)

**Supply version**

0 = AC (50/60 Hz)/DC (for 13.01.0.012 and 13.01.0.024 only)

8 = AC (50/60 Hz)

## TECHNICAL DATA

### INSULATION

**13.01**

**13.71**

DIELECTRIC STRENGTH		13.01	13.71
- between control circuit and supply	V AC	4,000	—
- between control circuit and contacts	V AC	4,000	—
- between supply and contacts	V AC	4,000	—
- between open contacts	V AC	1,000	1,000

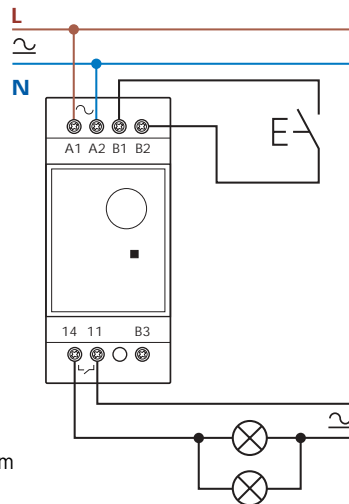
### OTHER DATA

**13.01**

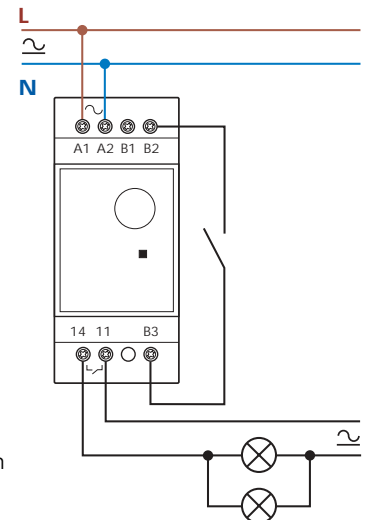
**13.71**

POWER LOST IN THE ENVIRONMENT		13.01		13.71	
- without contact current	W	2.2		0.5	
- with rated current	W	3.5		2.9	
MAX WIRE SIZE		solid cable		stranded cable	
	mm <sup>2</sup>	1x6 / 2x4	1x6 / 2x2.5	1x4 / 2x2.5	1x2.5 / 2x2.5
	AWG	1x10 / 2x12	1x10 / 2x14	1x12 / 2x14	1x14 / 2x14
SCREW TORQUE	Nm	0.8			

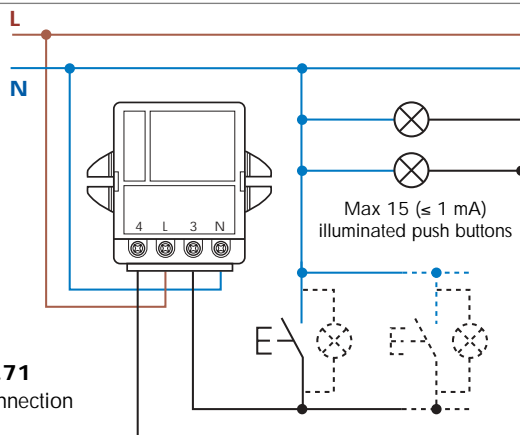
## WIRING DIAGRAMS



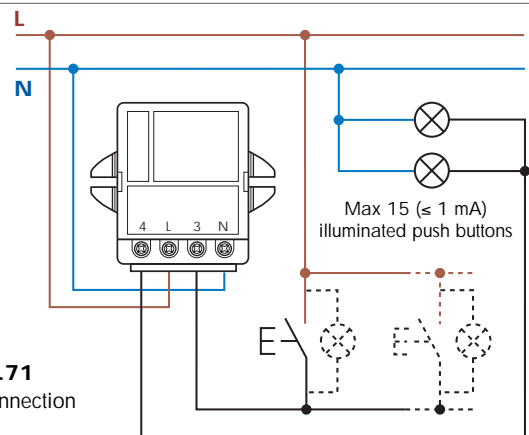
**Type 13.01**  
Bistable (step) wiring diagram



**Type 13.01**  
Monostable wiring diagram



**Type 13.71**  
3 wire connection



**Type 13.71**  
4 wire connection