

## Features

Relays for automatic control of lighting according to ambient light level

Separate photoelectric sensor

"Zero hysteresis" version for energy saving

- Type 11.01 is suitable for use on staircases and in entrance halls
- **Selector with 3 positions (type 11.01):**
  - **high range** (threshold setting 20...1000 lx)
  - **low range** (threshold setting 1...30 lx)
  - **continuous light** (helpful during installation and initial testing and for maintenance purposes)
- Type 11.71 available also with 12 and 24 V AC/DC voltage supply
- SELV separation between contact and supply circuit
- LED status indication
- 35 mm rail (EN 60715) mount
- Cadmium free contact material

11.01

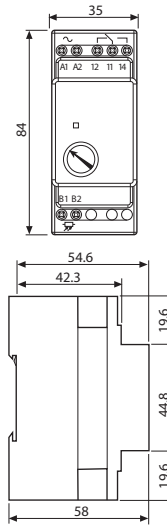
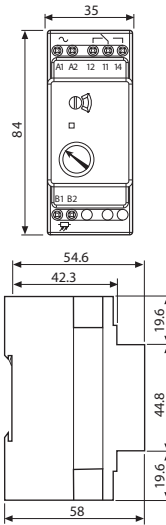


- 1 pole
- 35 mm rail (EN 60715) mount
- "zero hysteresis"

11.71



- 1 pole
- 35 mm rail (EN 60715) mount
- low voltage version available



Contact specification					
Contact configuration		1 CO (SPDT)		1 CO (SPDT)	
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: incandescent (230 V)	W	2,000 (NO contact)		2,000 (NO contact)	
compensated fluorescent (230 V)	W	550 (NO contact)		550 (NO contact)	
uncompensated fluorescent (230 V)	W	1,000 (NO contact)		1,000 (NO contact)	
halogen (230 V)	W	2,000 (NO contact)		2,000 (NO contact)	
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>	
Supply specification					
Nominal voltage (U <sub>N</sub> )	V DC/AC (50/60 Hz)	—		12	24
	V AC (50/60 Hz)	230		110...125	230...240
Rated power AC/DC	VA (50 Hz)/W	2/—		1.3/0.8	
Operating range	DC/AC (50 Hz)	—		(9.6...13.2)V	(19.2...33.6)V
	AC (50 Hz)	(0.8...1.1)U <sub>N</sub>		(88...137)V	(184...264)V
Technical data					
Electrical life at rated load in AC1	cycles	100 · 10 <sup>3</sup>		100 · 10 <sup>3</sup>	
Threshold setting	lx	1...30 (low range)		1...100 (switching ON)	
	lx	20...1,000 (high range)		2...150 (switching OFF)	
Delay time: switching ON/OFF	s	15/25		15/25	
Ambient temperature range	°C	-20...+50		-20...+60	
Protection category: light dependent relay/photocell		IP 20/IP 54		IP 20/IP 54	
Approvals (according to type)					

## Ordering information

Example: 11 series light dependent relay "zero hysteresis", 1 CO (SPDT) 16 A contact, 35 mm rail mounting, 230 V AC supply.

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

**Series** \_\_\_\_\_  
**Type** \_\_\_\_\_  
 0 = 35 mm rail (EN 60715) mounting,  
 "zero hysteresis"  
 7 = 35 mm rail (EN 60715) mounting  
**No. of poles** \_\_\_\_\_  
 1 = 1 pole

**Option**  
 0 = Standard for 8.125 and 8.230 supply  
 1 = Standard for 0.012 and 0.024 supply  
**Supply voltage**  
 012 = 12 V AC/DC for 11.71 only  
 024 = 24 V AC/DC for 11.71 only  
 125 = 110...125 V AC for 11.71 only  
 230 = 230...240 V AC for 11.71 only  
 230 = 230 V AC for 11.01 only  
**Supply version**  
 0 = AC (50/60 Hz)/DC for  
 11.71.0.012.1000 and 11.71.0.024.1000  
 8 = AC (50/60 Hz)

**Codes**  
 11.01.8.230.0000  
 11.71.0.012.1000  
 11.71.0.024.1000  
 11.71.8.125.0000  
 11.71.8.230.0000

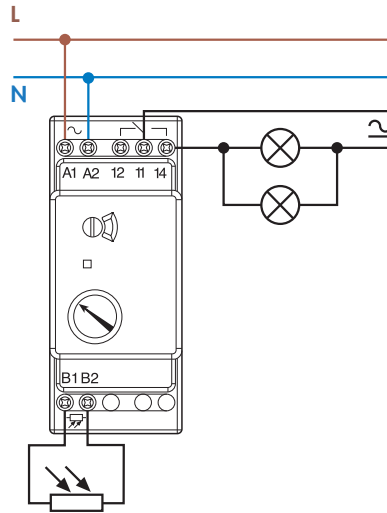
## Technical data

Insulation		11.01	11.71		
Dielectric strength					
	between supply and contacts V AC	4,000		4,000	
	between open contacts V AC	1,000		1,000	
Other data		11.01	11.71		
Cable grip of sensitive photocell	Ø mm	(7.5...9)		(7.5...9)	
Maximum cable length relay to photocell	m	50 (2x1.5 mm <sup>2</sup> )		50 (2x1.5 mm <sup>2</sup> )	
Preset threshold	Lux = lx	10		100	
Power lost to the environment					
	without contact current W	1.3		0.8	
	with rated current W	3.1		2	
Screw torque	Nm	0.8		0.8	
Max. wire size		solid cable	stranded cable	solid cable	stranded cable
	mm <sup>2</sup>	1x6 / 2x4	1x6 / 2x2.5	1x6 / 2x4	1x6 / 2x2.5
	AWG	1x10 / 2x12	1x10 / 2x14	1x10 / 2x12	1x10 / 2x14

## Wiring diagrams

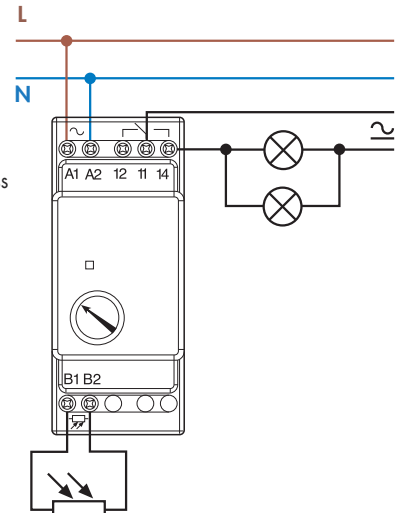
### Type 11.01

RED LED indication:  
 Blinking = power ON,  
 relay OFF  
 Continuous = power ON,  
 relay ON

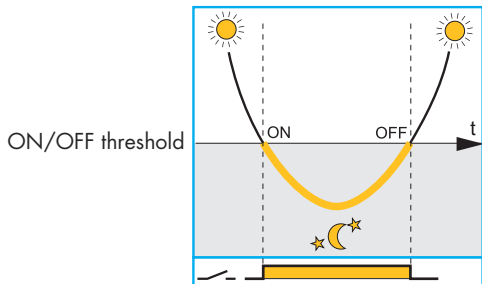


### Type 11.71

RED LED indication:  
 Slow blinking =  
 power ON,  
 relay OFF  
 Fast blinking =  
 power ON,  
 timing in progress  
 Continuous =  
 power ON,  
 relay ON

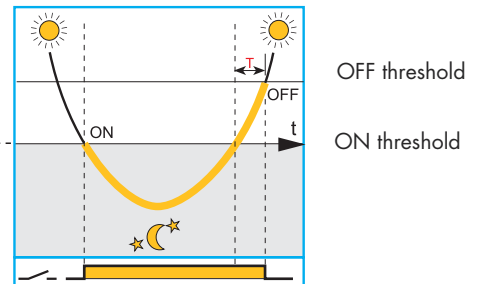


### TYPE 11.01 "ZERO HYSTERESIS" LIGHT DEPENDENT RELAYS



Switch OFF level = Switch ON level.  
 Patented "Zero Hyseresis" circuitry ensures reliable switching without wasting energy.

### TRADITIONAL LIGHT DEPENDENT RELAYS



"Traditional" light dependent relays incorporate switching hysteresis to prevent malfunctioning or tripping. This results in an unnecessary delay in switching off, and a resulting waste of energy (over period T).

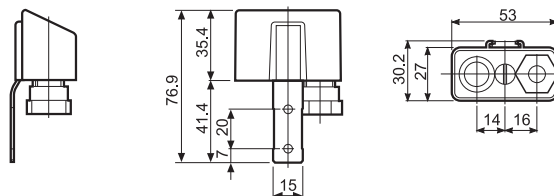
- Brightness of the natural light
- The NO of the light dependent relay is closed (light is switched on)

## Accessories



Photoelectric sensor (supplied with light dependent relay)

011.00



Adaptor for panel mounting, 35 mm wide

011.01

Finder\_Products\_for\_Commercial\_and\_Residential\_Applications\_1101-1171\_en\_0911.pdf



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