

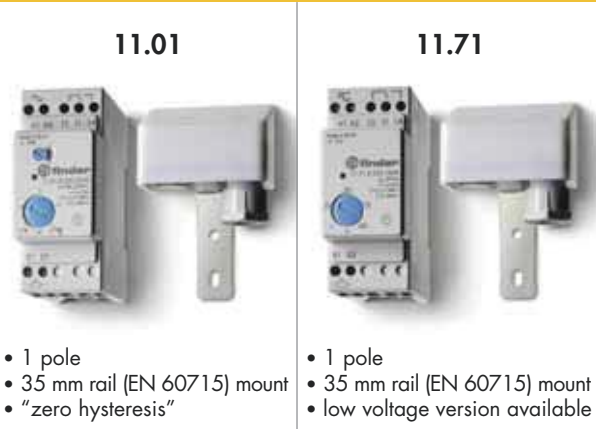
Features

Relays for automatic control of lighting according to ambient light level

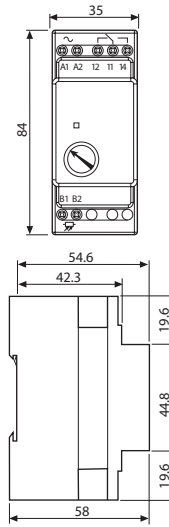
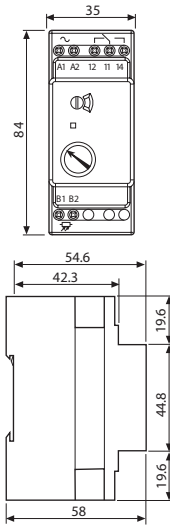
Separate photoelectric sensor

“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



- 1 pole
 - 35 mm rail (EN 60715) mount
 - “zero hysteresis”
- 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 ₂		AgSnO ₂	
Supply specification					
Nominal voltage (U _N)	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 _N		(88...137)V	(184...264)V
Technical data					
Electrical life at rated load in AC1	cycles	100 · 10 ³		100 · 10 ³	
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

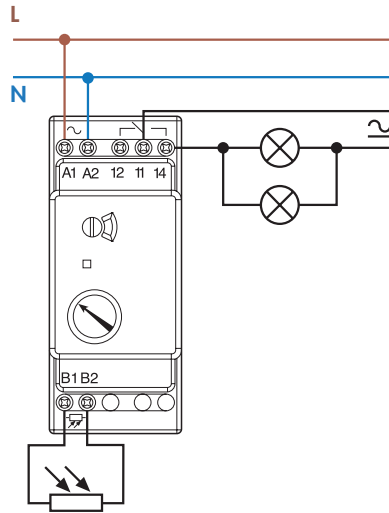
Technical data

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 ²)		50 (2x1.5 mm ²)	
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 ²	1x6 / 2x4	1x6 / 2x2.5	1x6 / 2x4	1x6 / 2x2.5
	AWG	1x10 / 2x12	1x10 / 2x14	1x10 / 2x12	1x10 / 2x14

Wiring diagrams

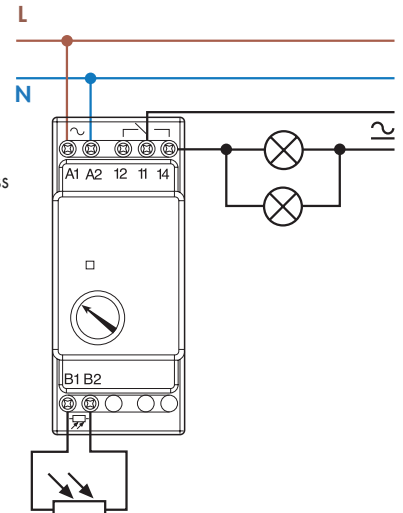
Type 11.01

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

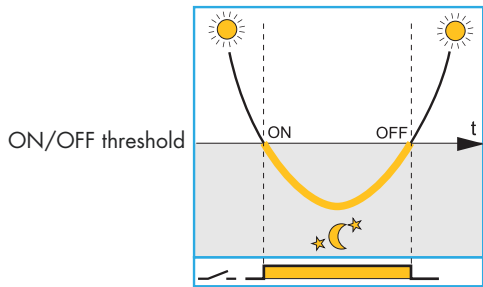


Type 11.71

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

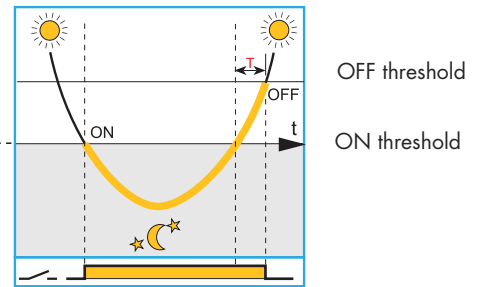


TYPE 11.01 "ZERO HYSTERESIS" LIGHT DEPENDENT RELAYS



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).

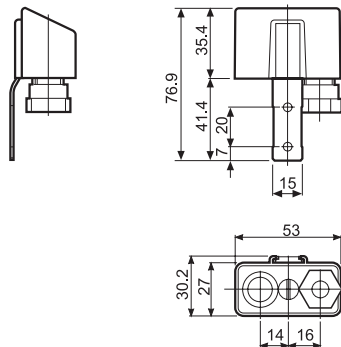
- Brightness of the natural light
- The NO of the light dependent relay is closed (light is switched on)

Accessories



Photoelectric sensor (supplied with light dependent relay)

011.00



Adaptor for panel mounting, 35 mm wide

011.01

011.01

