

Features

Relays for automatic control of lighting according to ambient light level

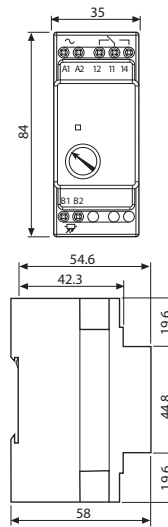
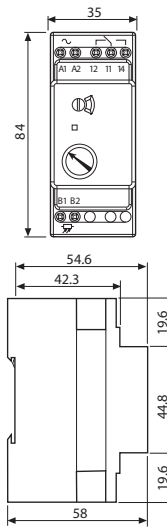
Separate photoelectric sensor

“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

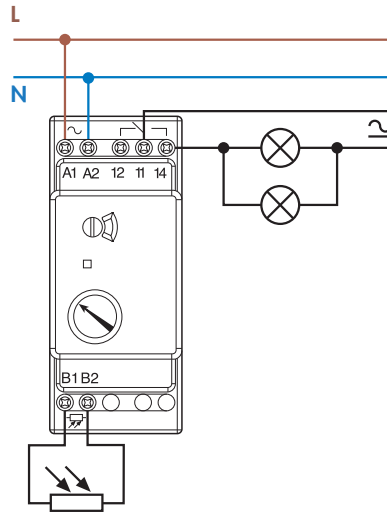
Technical data

| 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

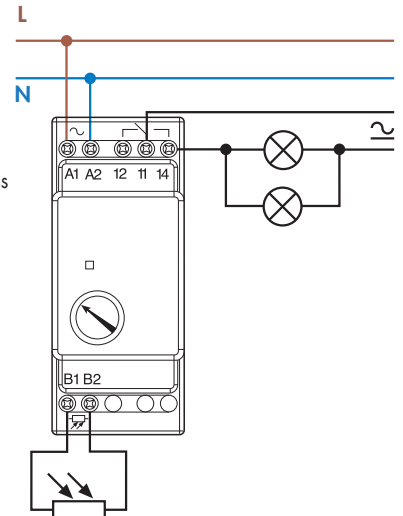
Type 11.01

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

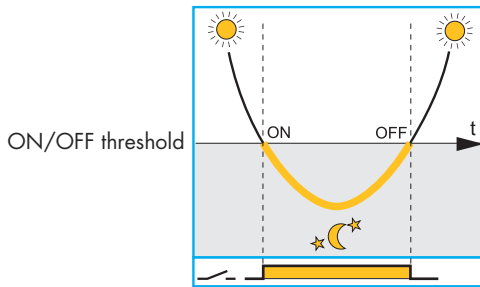


Type 11.71

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

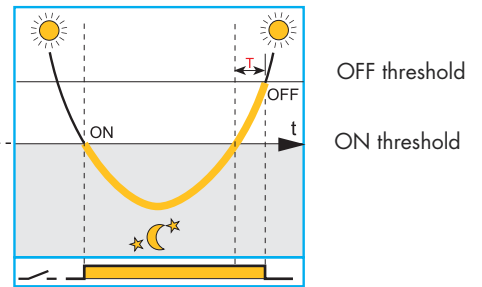


TYPE 11.01 "ZERO HYSTERESIS" LIGHT DEPENDENT RELAYS



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).

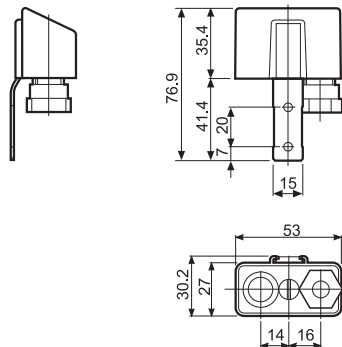
- Brightness of the natural light
- The NO of the light dependent relay is closed (light is switched on)

Accessories



Photoelectric sensor (supplied with light dependent relay)

011.00



Adaptor for panel mounting, 35 mm wide

011.01

011.01

