

# RPZ-1LUX-A230-L

twilight switch



- **Twilight switch** for serves to control lights on the basis of ambient light intensity

- Level of ambient intensity is monitored by an external sensor and output is switched according to set level on the device.
- Two light intensity ranges can be set.
- It has zero crossing switching ability.
- Wide power supply range AC 110 V- 240 V
- Contacts 1 NO • AC input voltages • Cover - modular, width 18 mm
- Direct mounting on 35 mm rail mount acc. to EN 60715
- Applications: switching street illumination and garden lights, illumination of advertisements, shop windows, etc.
- **The RPZ-1LUX-A230-L twilight switch is sold as a set with a sensor.**
- Compliance with EN 60255-1. Certificates: , RoHS

### Output circuit

|                             |                    |
|-----------------------------|--------------------|
| Number and type of contacts | 1 NO               |
| Contact material            | AgSnO <sub>2</sub> |
| Max. switching voltage      | 250 V AC/ 24 V DC  |
| Rated load AC1              | 16 A/ 250 V        |
| Rated current               | 16 A               |
| Max. breaking capacity AC1  | 4000 VA            |
| Min. breaking capacity      | 500 mW             |
| Output indication           | Red LED            |

### Input circuit

|                                   |                           |                |
|-----------------------------------|---------------------------|----------------|
| Rated voltage 50/60 Hz AC         | 110 V – 240 V             | terminals L, N |
| Operating range of supply voltage | 0,85...1,1 U <sub>n</sub> |                |
| Supply voltage tolerance          | –15%; +10%                |                |
| Rated power consumption:          | max. 2 VA                 |                |
| Range of supply frequency AC      | 50 – 60 Hz                |                |

### Insulation according to EN 60664-1

|                             |          |
|-----------------------------|----------|
| Insulation rated voltage    | 250 V AC |
| Overvoltage category        | III      |
| Insulation pollution degree | 2        |

### General data

|                                                        |                                                            |
|--------------------------------------------------------|------------------------------------------------------------|
| Electrical life • resistive AC1                        | 1 × 10 <sup>7</sup>                                        |
| Mechanical life (cycles)                               | 1 × 10 <sup>5</sup>                                        |
| Dimensions (L × W × H)                                 | 90 × 18 × 64 mm                                            |
| Weight                                                 | 72 g                                                       |
| Ambient temperature<br>(non-condensation and/or icing) | • storage −35 °C... +75 °C<br>• operating −20 °C... +55 °C |
| Cover protection category                              | front panel: IP40                      terminals: IP10     |
| Relative humidity                                      | up to 95% RH(non-condensing)                               |
| Operating position                                     | any                                                        |

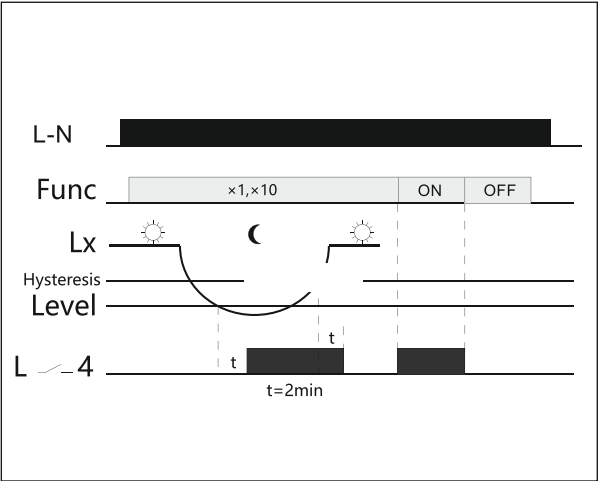
### Other information

|                                        |                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------|
| Functions                              | Twilight switch                                                                                         |
| Time ranges (timing adjustment)        | 2 min                                                                                                   |
| Adjustment Range                       | 1–1000 Lx, 10–10000 Lx                                                                                  |
| Rang function                          | OFF, ×1, ×10, ON                                                                                        |
| Values affecting the timing adjustment | ±35%                                                                                                    |
| LED indicator                          | green LED U <sub>n</sub> ON – indication of supply voltage U<br>gred LED R ON/OFF – output relay status |

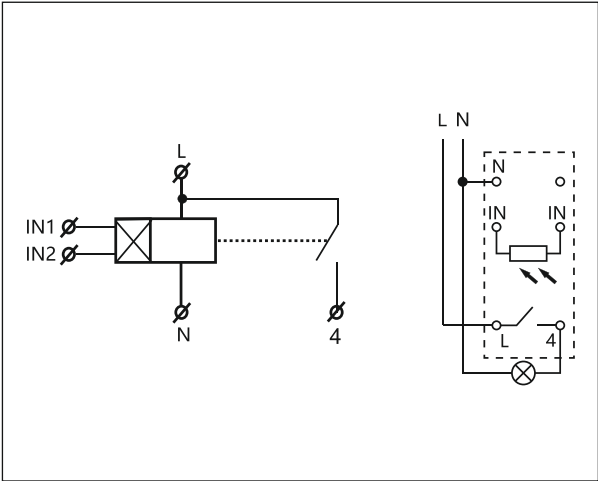
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## Functions Diagram

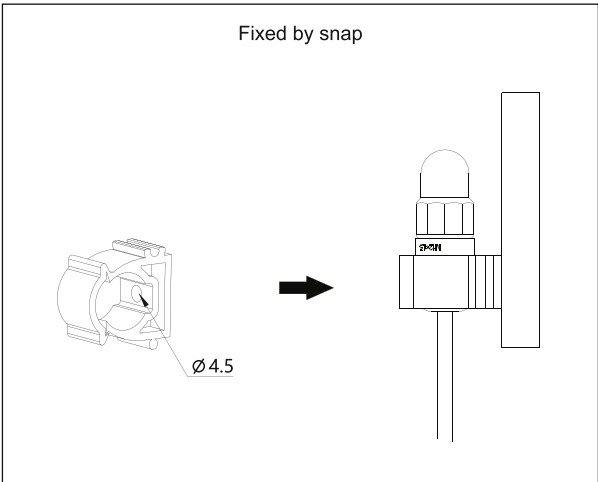
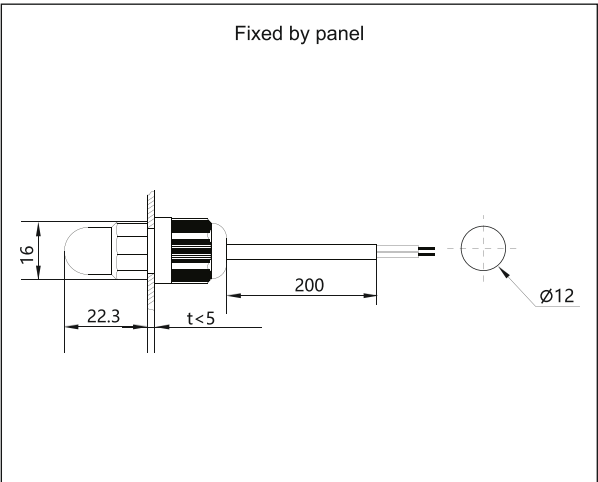


## Connection diagrams



## Mounting

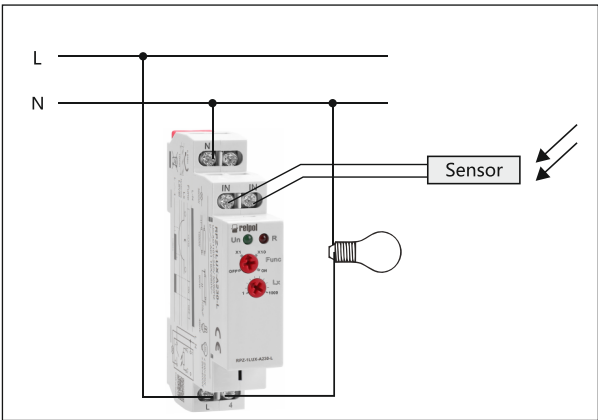
Twilight switches **RPZ-1LUX-A230-L** are designed for direct mounting on 35 mm rail mount acc. to EN 60715. Operational position – any. **Connections:** max. cross section of the cables: solid wire  $1 \times 2,5 \text{ mm}^2$  ( $1 \times 14 \text{ AWG}$ ) or  $2 \times 1,5 \text{ mm}^2$  ( $2 \times 16 \text{ AWG}$ ) / with sleeve  $1 \times 2,5 \text{ mm}^2$  ( $1 \times 14 \text{ AWG}$ ), stripping length: 6,5 mm, max. tightening moment for the terminal: 0,8 Nm.



## Types of lamps

|                                     |  |                            |
|-------------------------------------|--|----------------------------|
| Incandescent                        |  | 3600 W                     |
| Halogen lamp                        |  | 3600 W                     |
| Fluorescent, corrected, in parallel |  | 1000 W                     |
| Fluorescent, corrected, in series   |  | 900 W (125 $\mu\text{F}$ ) |
| Compact fluorescent                 |  | 400 W                      |
| LED lamps ( $\leq 2\text{W}$ )      |  | 55 W                       |
| LED lamps ( $>2\text{W}$ )          |  | 600 W                      |

## Application example

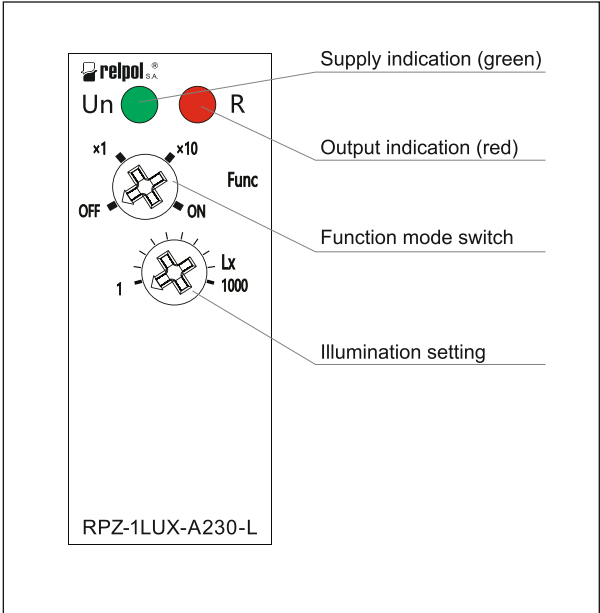


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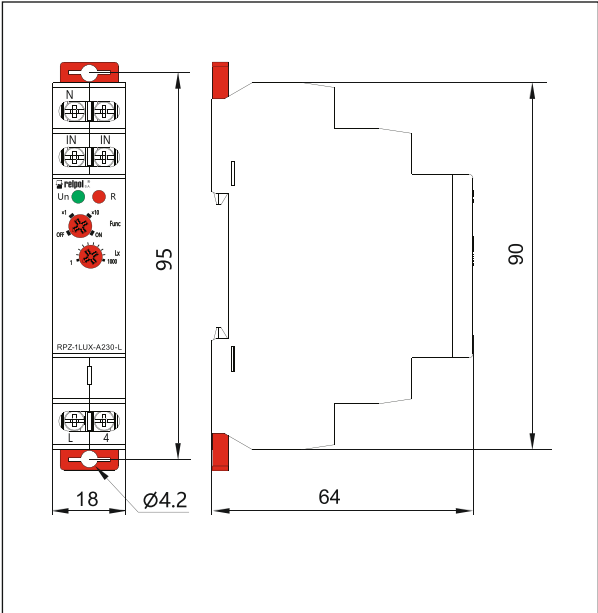
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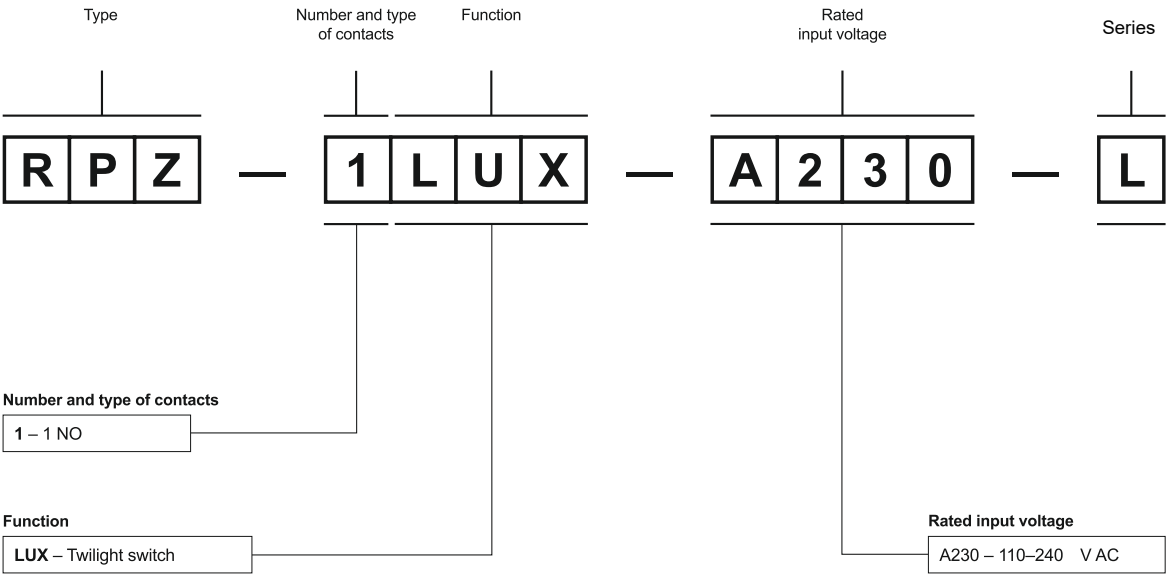
## Panel Diagram



## Dimensions (mm)



## Ordering codes



The RPZ-1LUX-A230-L twilight switch is sold as a set with a sensor.

### PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.