



## General

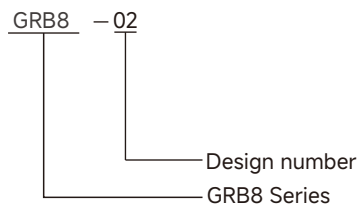
### ■ Applications

-Used for switching street illumination and garden lights, illumination of advertisements, shop windows, etc.

### ■ Function Features

- 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.
- Universal supply AC 110V- 240 V.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

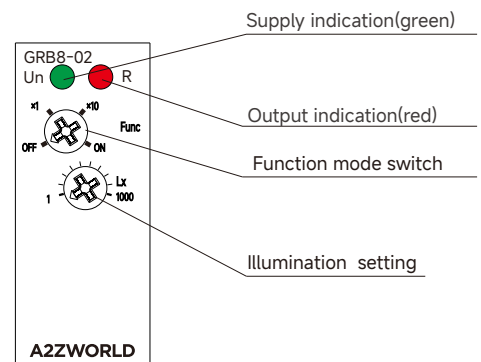
### ■ Model and connotation



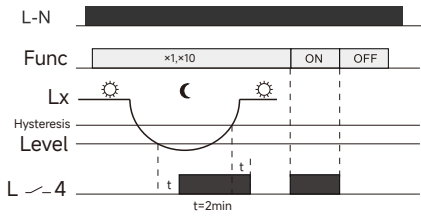
## Technical parameters

| Technical parameters             | GRB8-02                                                   |
|----------------------------------|-----------------------------------------------------------|
| Function                         | Twilight switch                                           |
| Supply terminals                 | L-N                                                       |
| Rated supply voltage             | AC 110V-240V                                              |
| Rated supply frequency           | 50/60Hz                                                   |
| Burden                           | max 2VA                                                   |
| Supply voltage tolerance         | -15%;+10%                                                 |
| Illumination rang                | 1-1000Lx,10-10000Lx                                       |
| Function                         | ON-x1-x10-OFF                                             |
| Supply indication                | green LED                                                 |
| Tolerance sensor                 | ±35%                                                      |
| Delay time                       | 2min                                                      |
| Output                           | 1×SPST                                                    |
| Current rating                   | 16A/AC1                                                   |
| Switching voltage                | 250VAC/24VD                                               |
| Min.breaking capacity DC         | C 500mW                                                   |
| Output indication                | red LED                                                   |
| Mechanical life                  | 1×10 <sup>7</sup>                                         |
| Electrical life(AC1)             | 1×10 <sup>5</sup>                                         |
| Operating temperature            | -20°C to+55°C                                             |
| Storage temperature              | -35°C to+75°C                                             |
| Humidity                         | Up to 95% RH(non-condensing)                              |
| Mounting/DIN rail                | Din rail EN/IEC 60715                                     |
| Protection degree                | IP40 for front panel/IP20 terminals                       |
| Operating position               | any                                                       |
| Overvoltage cathegory            | III.                                                      |
| Pollution degree                 | 2                                                         |
| Max.cable size(mm <sup>2</sup> ) | solid wire max.1×2.5or 2×1.5/with sleeve max.1×.5(AWG 12) |
| Dimensions                       | 90×18×64mm                                                |
| Weight                           | 65g                                                       |
| Standards                        | EN 60255-1                                                |

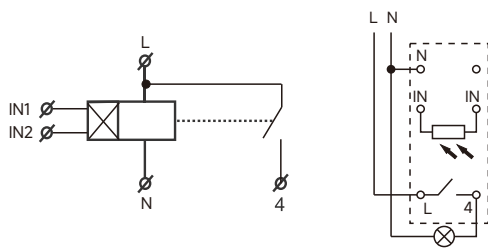
## Panel Diagram



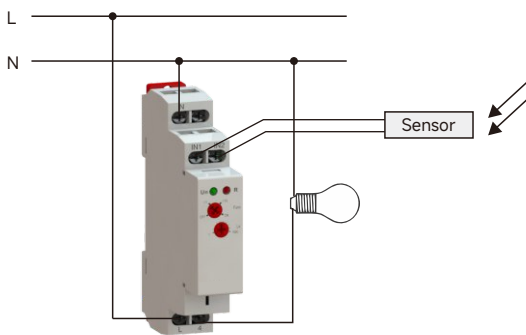
## Functions Diagram



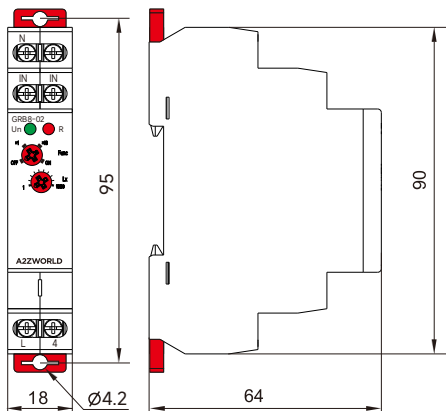
## Wiring Diagram



## Example



## Dimensions(mm)



## Types of lamps

|                                     |  |             |
|-------------------------------------|--|-------------|
| Incandescent                        |  | 3600W       |
| Halogen lamp                        |  | 3600W       |
| Fluorescent, corrected, in series   |  | 1000W       |
| Fluorescent, corrected, in parallel |  | 900W(125uF) |
| Compact fluorescent                 |  | 400W        |
| LED lamps( < 2W)                    |  | 55W         |
| LED lamps( > 2W)                    |  | 600W        |

## Sensor

PLS-02

