

## Right-Left(inverser) time relay GRT6-RL Instruction Manual

### General

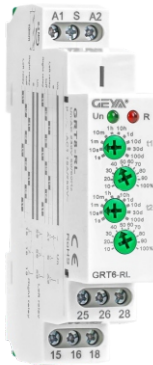
#### ■Applications

-Right-Left(inverser) timer relay are used for 2 different loads,which works by turn.  
First load starts working,stops and waits( ) and second load starts working.Both working time is same.

#### ■Function Features

- The default is right load first. You can select left load first by shorting S-A1
- Time scale 0.1 s - 100 days divided into 10 time ranges:  
(0.1 s - 1 s / 1 s - 10 s / 0.1 min - 1 min / 1 min - 10 min / 0.1 hrs - 1 h / 1 hrs - 10 hrs / 0.1 day - 1 day / 1 day - 10 days / 3 days - 30 days / 10 days - 100 days).
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

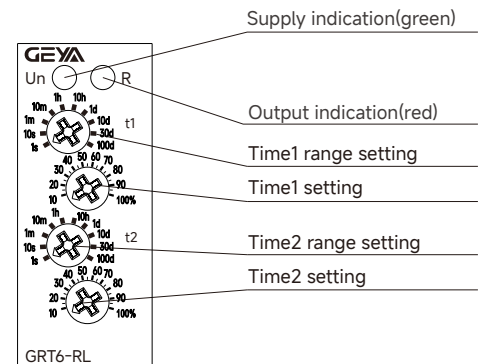
#### ■Model and connotation



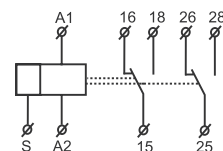
### Technical parameters

| Technical parameters             | GRT6-RL                                                    |
|----------------------------------|------------------------------------------------------------|
| Function                         | Right-Left inverser time relay                             |
| Supply terminals                 | A1-A2                                                      |
| Voltage range                    | AC/DC 24-240V(50-60Hz)                                     |
| Burden                           | AC 0.7-3VA/DC 0.5-1.7W                                     |
| Voltage range                    | AC 230V(50-60Hz)                                           |
| Power input                      | AC max.6VA/1.9W                                            |
| Supply voltage tolerance         | -15%;+10%                                                  |
| Supply indication                | green LED                                                  |
| Time ranges                      | 0.1s-100days                                               |
| Time setting                     | potentionmeter                                             |
| Time deviation                   | 10%-mechanical setting                                     |
| Repeat accuracy                  | 0.2%-set value stability                                   |
| Temperature coecient             | 0.05%/°C,at=20°C(0.05°F, at=68°F)                          |
| Output                           | 2×SPDT                                                     |
| Current rating                   | 10A/AC1                                                    |
| Switching voltage                | 250VAC/24VDC                                               |
| Min.breaking capacity DC         | 500mW                                                      |
| Output indication                | red LED                                                    |
| Mechanical life                  | 1×10 <sup>7</sup>                                          |
| Electrical life(AC1)             | 1×10 <sup>5</sup>                                          |
| Reset time                       | max.200ms                                                  |
| Operating temperature            | -20°C to +55°C (-4°F to 131°F)                             |
| Storage temperature              | -35°C to +75°C (-22°F to 158°F)                            |
| 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.1×2.5(AWG 12) |
| Tightening torque                | 0.4Nm                                                      |
| Dimensions                       | 90×18×64mm                                                 |
| Weight                           | S240-67g,A230-70g                                          |
| Standards                        | EN 61812-1,IEC60947-5-1                                    |

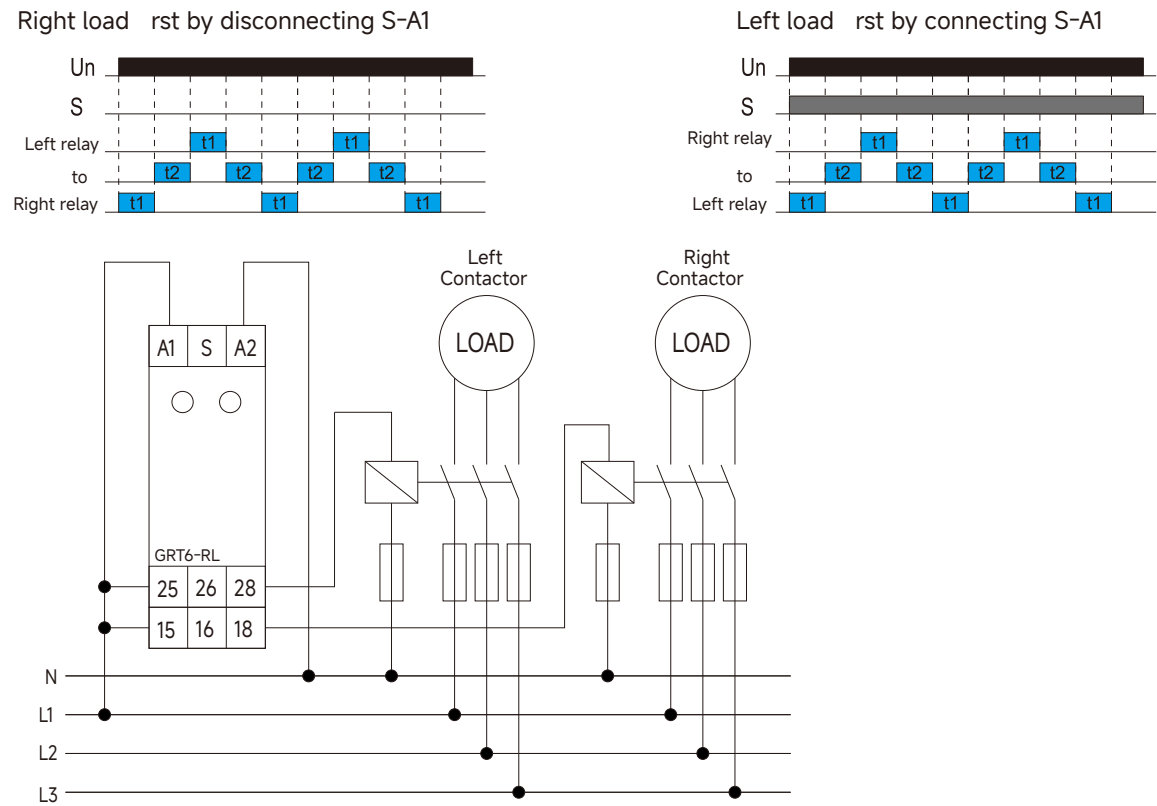
### Panel Diagram



### Wiring Diagram



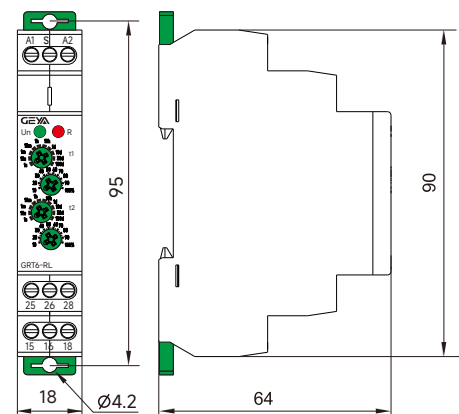
# Functions Diagram



## Setting instructions

|                                                                                                                                                                                                                                                                                                                |                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                             | Knob 1: delay gear setting, “s” for second, “m” for minute, “h” for hour, “d” for day. |
|                                                                                                                                                                                                                             | Knob 2: ne adjustment of delay time, 10% ~ 100% adjustable.                            |
| <div>Delay time = knob 1 × knob 2.</div> <div>Example 1: it needs to be set for 5 seconds. You can set knob 1 to 10s, knob 2 to 50%, and delay time = 10s × 50% = 5s.</div> <div>Example 2: it needs to be set for 8 minutes. You can set knob 1 to 10m, knob 2 to 80%, and delay time = 10m × 80% = 8m.</div> |                                                                                        |

## Dimensions(mm)



**Disposal of Electrical Waste**  
All electrical waste should be disposed of in compliance with current WEEE regulations.



**Caution**  
The products must be installed by qualified electricians. All and any electrical connections of the product shall comply with the appropriate safety standards.