

# Emergency light test relay GRT8-LT

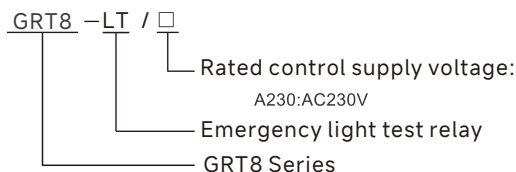
## Instruction Manual



### General

- Applications
  - Timer for automatic test of emergency lights.
- Function Features
  - Integrated test key.
  - 1 change over contact.
  - Voltage range: AC 230 V, clamp terminals.
  - Relay status is indicated by LED.
  - 1-MODULE,DIN rail mounting.

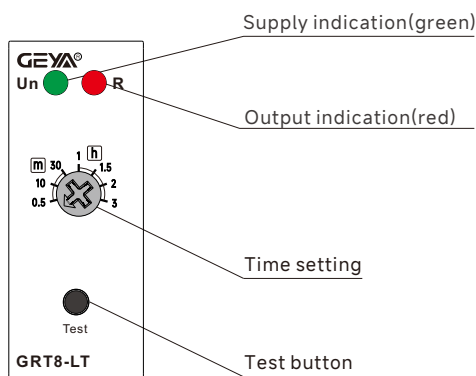
### ■ Model and connotation



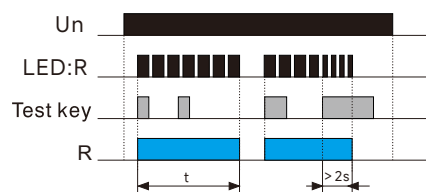
### Technical parameters

Technical parameters	GRT8-LT
Function	Emergency light test relay
Supply terminals	L-N
Voltage range	AC 230V(50/60Hz)
Power input	AC max.1.2VA/0.8W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	0.5s-3hours
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Mininum power time	500ms
Temperature coecient	0.05%/°C
Output	1×SPDT
Current rating	16A/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
Storage temperature	-35°C to +75°C
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	0.8Nm
Dimensions	90×18×64mm
Weight	70g
Standards	EN 61812-1,IEC 60669-2-3,IEC60947-5-1

### Panel Diagram

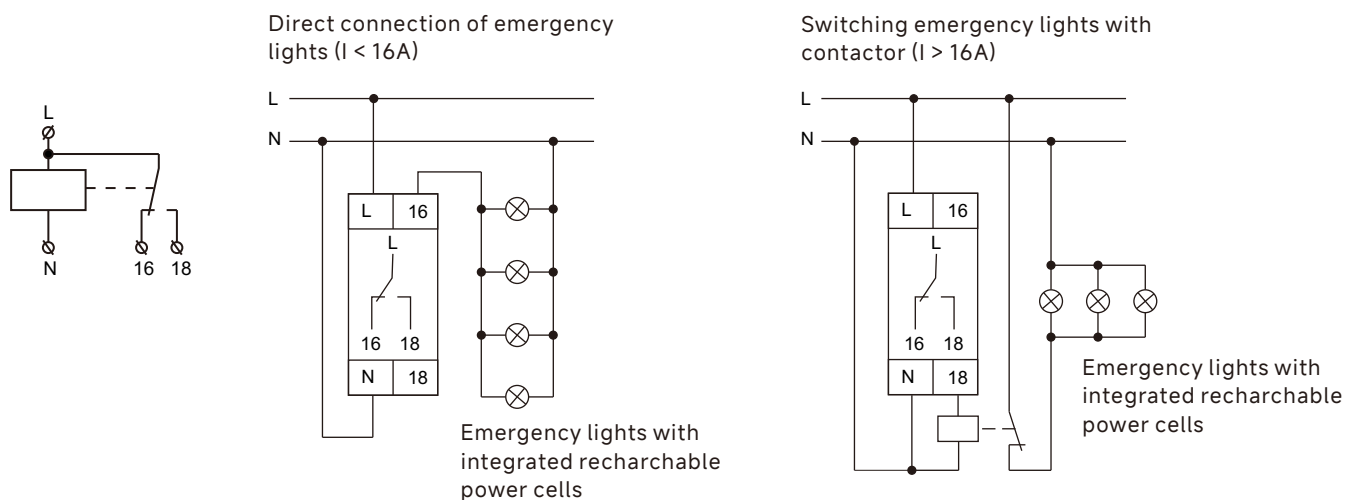


## Functions Diagram

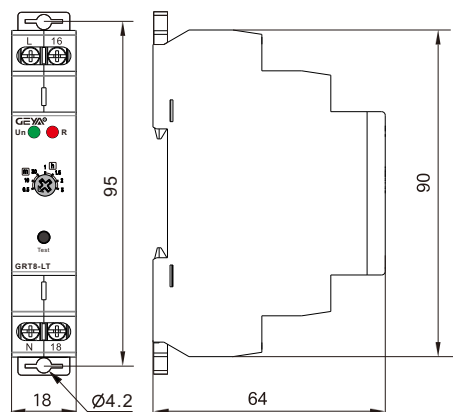


The supply voltage  $U_n(L-N)$  must be constantly to the device (green LED  $U_n$  illuminated). Pressing the integrated test key forces the output relay R to switch into on-position (red LED illuminated), so the emergency lights are disconnected from the mains and the set interval  $t$  begins (red LED R flashes). After the interval  $t$  has expired (red LED R not illuminated), the output relay R switches into off-position and the emergency lights are reconnected to the mains. During the interval, the test key can be operated any number of times. Prolonged pressure on the test key ( $>2s$ ) aborts the running test interval (red LED R flashes fast) and a further cycle can be started.

## Wiring Diagram



## 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 time relay shall comply with the appropriate safety standards.