Delay OFF without supply voltage time relay GRT8-D
Instruction Manual

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General

■Applications
-Back-up source for Delay OFF in case of voltage failure (emergency lighting, emergency respirator,or protection of el. controlled doors - in case of fi re).
■Function Features
-Time range (adjustable by rotary switch and fi ne setting by potentiometer): 0.1 s - 10 min.
-Voltage range: AC/DC12-240V , clamp terminals.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

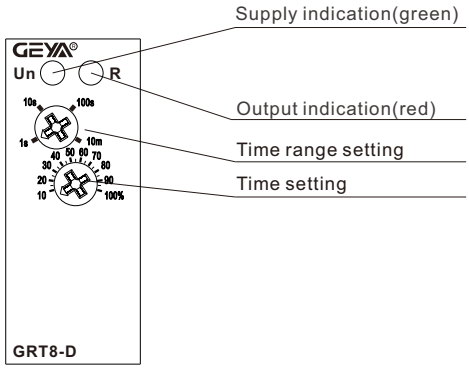
■Model and connotation

GRT8 — D /□
- Rated control supply voltage: W240:AC/DC12V-240V
- Delay OFF without supply power
- GRT8 Series

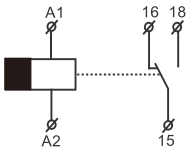
Technical parameters

Technical parameters	GRT8-D
Function	Delay OFF without supply power
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.09-3VA/DC 0.05-1.5W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	0.1s-10min
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Mininum power time	3s
Temperature coecient	0.05%/℃,at=20℃(0.05%℉ , at=68℉)
Output	1×SPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10^6
Electrical life(AC1)	5×10^4
Reset time	max.200ms
Operating temperature	-20℃ to +55℃ (-4℉ to 131℉)
Storage temperature	-35℃ to +75℃ (-22℉ to 158℉)
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^2)	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	69g
Standards	EN 61812-1,IEC60947-5-1

Panel Diagram

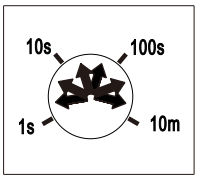


Wiring Diagram



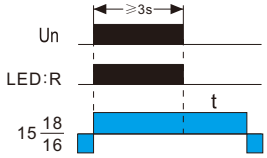
Set points for attention

Wrong setting



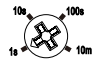
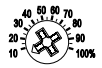
The position indicated by the arrow in the figure is the wrong setting position, and the delay position can only be set in four positions of 1s, 10s, 100s and 10m. When setting error happen, the red LED will flash, and it needs to be reset after the power off 30 seconds.

Functions Diagram



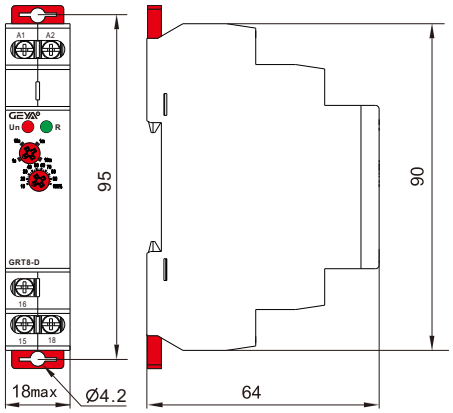
Note: To ensure the delay and normal operation after power off, the power-on time of the product is at least 3 seconds.

Setting instructions

	Knob 1: delay gear setting, “s” for second, “m” for minute.
	Knob 2: fine adjustment of delay time, 10% ~ 100% adjustable.

Delay time = knob 1 × knob 2.
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.
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.

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.

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