⚠ **Important Safety** Notice

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation.

All connections should be checked periodically to ensure correct tightness.

DO NOT USE POWER TOOLS ON THESE PRODUCTS

Data	
Function	A, B, C, D, E, F, G, H, I, J
Supply Terminals	A1 - A2
Voltage Range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.7-3VA/DC 0.5-1.7W
Voltage Range	AC 230V(50-60Hz)
Power Input	AC max.12VA/1.3W
Supply Voltage Tolerance	-15%;+10%
Supply Indication	green LED
Time Ranges	0.1s - 10days, ON ,OFF
Time Setting	potentionmeter
Time Deviation	5%-mechanical setting
Repeat Accuracy	0.2%-set value stability
Temperature Coecient	$0.05\%/^{O}C$, at=$20^{O}C$($0.05\%^{O}F$, at=$68^{O}F$)
Output	1 × SPDT
Current Rating	16A/ AC1
Switching Voltage	250VAC / 24VDC
Min Breaking Capacity DC	500mW
Output Indication	red LED
Mechanical Life	$1×10^{7}$
Electrical Life(Ac1)	$1×10^{6}$
Reset Time	max.200ms
Operating Temperature	$-20^{O}C$ to $+55^{O}C$($-4^{O}F$ to $131^{O}F$)
Storage Temperature	$-35^{O}C$ to $+75^{O}C$($-22^{O}F$ to $158^{O}F$)
Mounting/Din Rail	Din rail EN/IEC 60715
Protection Degree	IP40 for front panel / IP20 terminals
Operating Position	any
Overvoltage Category	III.
Pollution Degree	2
Max Cable Size (mm^2)	solid wire max 1×2.5 or 2×1.5 / with sleeve max.1×2.5 (AWG 12)
Dimensions	90 × 18 × 64mm
Weight	1 × SPDT: W240 - 62g, A230 - 60g
Standards	IEC / EN 61812-1, IEC / EN61010-1

Functions Diagram

A: On Delay (Power On)
When the input voltage U is applied, timing delay t begins. Relay contacts R change state after time delay is complete. Contacts R return to their shelf state when input voltage U is removed. Trigger switch is not used in this function.

B: Interval (Power On)
When input voltage U is applied, relay contacts R change state immediately and timing cycle begins. When time delay is complete, contacts return to shelf state. When input voltage U is removed, contacts will also return to their shelfstate. Trigger switch is not used in this function.

C: Repeat Cycle (Starting Off)
When input voltage U is applied, time delay t begins. When time delay t is complete, relay contacts R change state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.

D: Repeat Cycle (Starting On)
When input voltage U is applied, relay contacts R change state immediately and time delay t begins. When time delay t is complete, contacts return to their shelf state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.

E: Off Delay (S Break)
Input voltage U must be applied continuously. When trigger switch S is closed, relay contacts R change state. When trigger switch S is opened, delay t begins. When delay t is complete, contacts R return to their shelf state. If trigger switch S is closed before time delay t is complete, then time is reset. When trigger switch S is opened, the delay begins again, and relay contacts R remain in their energized state. If input voltage U is removed, relay contacts R return to their shelf state.
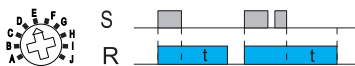
F: Single Shot
Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. During time-out, the trigger signal S is ignored. The relay resets by applying the trigger switch S when the relay is not energized.
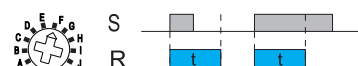
G: Single Shot Trailing Edge (Non-Retriggerable)
Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. At the end of the preset time t, the relay contacts R return to their normal condition unless the trigger switch S is opened and closed prior to time out t (before preset time elapses). Continuous cycling of the trigger switch S at a rate faster than the preset time will cause the relay contacts R to remain closed. If input voltage U is removed, relay contacts R return to their shelf state
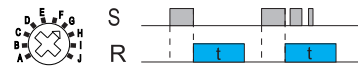
H: On/Off Delay
Input voltage U must be applied continuously. When trigger switch S is closed, time delay t begins. When time delay t is complete, relay contacts R change state and remain transferred until trigger switch S is opened. If input voltage U is removed, relay contacts R return to their shelfesta
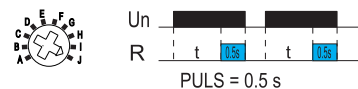
I: Latching relay
Input voltage U must be applied continuously. Output changes state with every trigger switch S closure. If input voltage U is removed, relay contacts R return to their shelf state.
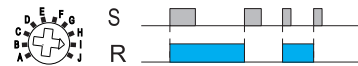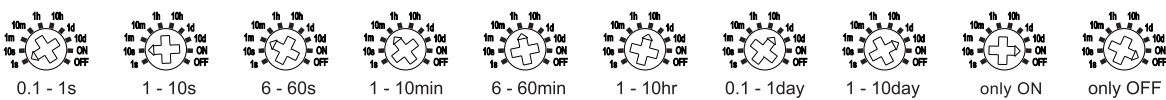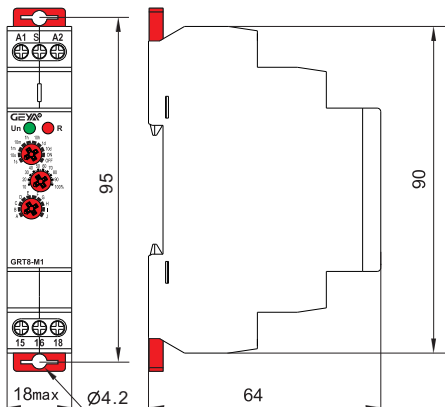
J: Pulse generator
Upon application of input voltage U, a single output pulse of 0.5 seconds is delivered to relay after time delay t. Power must be removed and re-applied to repeat pulse. Trigger switch is not used in this function.
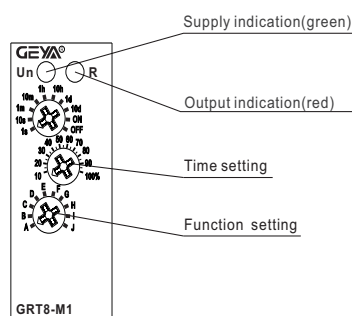
PULS = 0.5 s

Time Range

| 0.1 - 1s | 1 - 10s | 6 - 60s | 1 - 10min | 6 - 60min | 1 - 10hr | 0.1 - 1day | 1 - 10day | only ON | only OFF |

Dimensions(mm)

95

18max   Ø4.2   64

Panel Diagram

GEYA
Un   R

Supply indication(green)

Output indication(red)

Time setting

Function setting

GRT8-M1

90

Wiring Diagram

A1   16   18

S   A2   15

16   18

Un   S   A2

15