

Single-function time relay GRT8-A&B

Instruction Manual



General

Applications

- Suitable for applications where function and time requirements are known.
- Time switch, possible to be used for pump decay time after switching heating off, switching of fans.

Function Features

- Single-function relay with possibility of time setting by a potentiometer.
- Choice of 2 functions:
A: Delay ON
B: Delay OFF
- Time scale 0.1 s - 10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.

Model and connotation

GRT8 - □ □ □

Rated control supply voltage:

A230: AC230V
W240: AC/DC12V-240V

Number of contacts:

1: 1×SPDT

2: 2×SPDT

t: 2×SPDT, one time delay contact, the other instantaneous contact

Function mode:

A - Delay ON

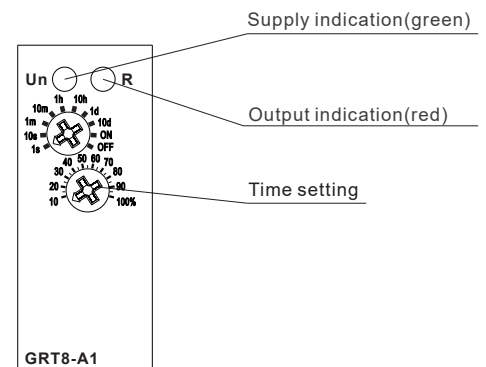
B - Delay OFF

GRT8 Series

Technical parameters

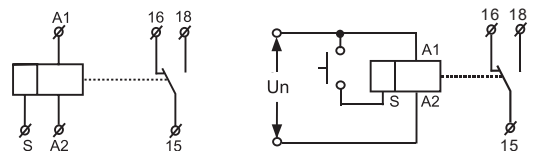
Technical parameters	GRT8-A1/B1	GRT8-A2/B2	GRT8-At/Bt
Function	A:delay ON;B:delay OFF		
Supply terminals	A1-A2		
Voltage range	AC/DC 12-240V(50-60Hz)		
Burden	AC 0.09-3VA/DC 0.05-1.7W		
Voltage range	AC 230V(50-60Hz)		
Power input	AC max.6VA/1.3W	AC max.6VA/1.9W	
Supply voltage tolerance	-15%;+10%		
Supply indication	green LED		
Time ranges	0.1s-10days,ON,OFF		
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	1×SPDT	2×SPDT	1×SPDT(del)+1×SPDT(ins)
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 ⁵		
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 ²)	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	W240-61g,A230-61g	W240-81g,A230-80g	
Standards	EN 61812-1,IEC60947-5-1		

Panel Diagram

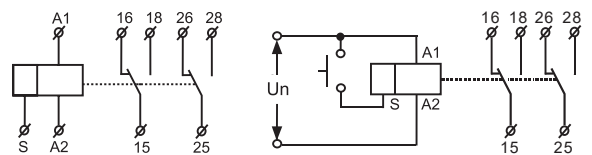


Wiring Diagram

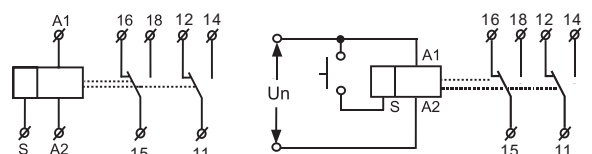
GRT8-A1/B1



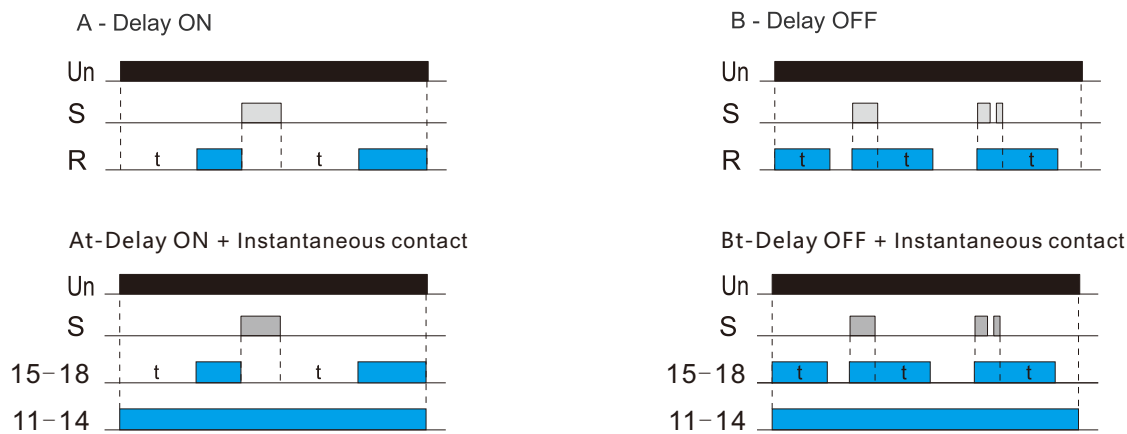
GRT8-A2/B2



GRT8-At/Bt



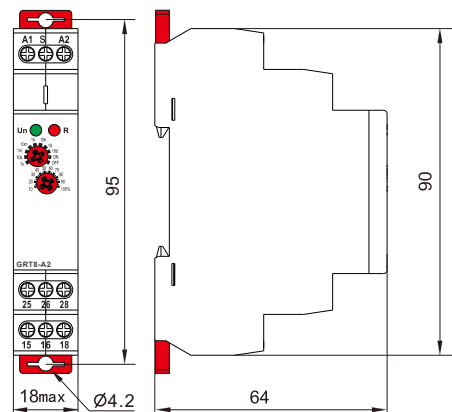
Functions Diagram



Time Setting

	Knob 1: delay gear setting, “s” for second, “m” for minute, “h” for hour, “d” for day, “ON” for relay action (15-18/25-28 closed), “OFF” for relay open (15-18/25-28 open).
	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.