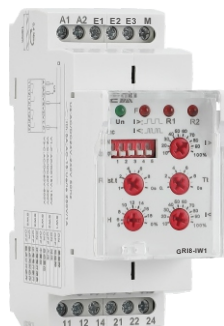


Mornitoring current relay GRI8-IW

Instruction Manual



General

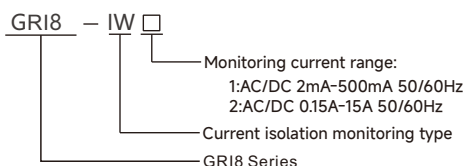
■Applications

-Used for overcurrent and undercurrent protection of electrical equipment.

■Function Features

- True RMS measurement with high measurement accuracy.
- Overcurrent and undercurrent selection monitoring or simultaneous monitoring.
- The output contact is normally open or normally closed and can be set.
- Two sets of contact outputs, which can act separately and independently.
- 36mm wide, 35mm clamp rail installation.

■Model and connotation

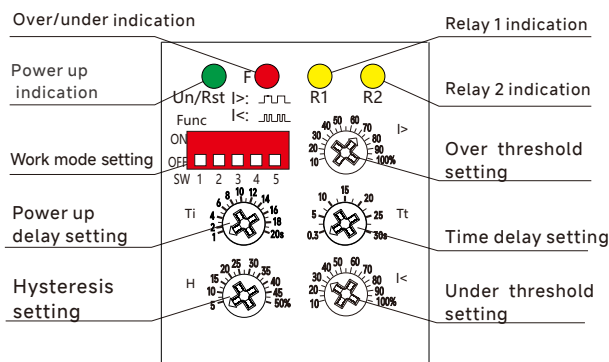


Technical parameters

	GRI8-IW1	GRI8-IW2
Function	Monitoring current	
Supply terminals	A1,A2	
Rated supply voltage	AC/DC24-240V 50/60Hz	
Monitoring current input terminal	E1,E2,E3,M	
Monitoring current range	AC/DC2mA-500mA 50/60Hz	AC/DC0.15A-15A 50/60Hz
Rated insulation voltage	500V	
Hysteresis	Only over or under:5%-50%adjustable;Over and under:fixed 5%	
Supply indication	Green LED	
Measurement error	≤5%	
Time delay	0.3s-30s	
Power up delay/Reset time	1s-20s	
knob setting accuracy	10%	
Output	2×SPDT	
Current rating	5A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	Yellow LED	
Mechanical life	5×10 ⁶	
Electrical life(AC1)	5×10 ⁴	
Operating temperature	-20℃ to +55℃ (-4°F to 131°F)	
Storage temperature	-35℃ to +75℃ (-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 catgory	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)	
Dimensions	90mm×36mm×70mm	
Weight	100g	
Standards	EN/IEC60947-5-1	

Model	Input terminal	Input monitoring current range	Input resistance	Overload capacity
GRI8-IW1	E1-M	AC/DC2mA-20mA 50/60Hz	5Ω	Continuous input at 120% of maximum input. 1 s at 150%
	E2-M	AC/DC10mA-100mA 50/60Hz	1Ω	
	E3-M	AC/DC50mA-500mA 50/60Hz	0.2Ω	
GRI8-IW2	E1-M	AC/DC0.15A-1.5A 50/60Hz	0.05Ω	
	E2-M	AC/DC0.5A-5A 50/60Hz	0.015Ω	
	E3-M	AC/DC1.5A-15A 50/60Hz	0.005Ω	

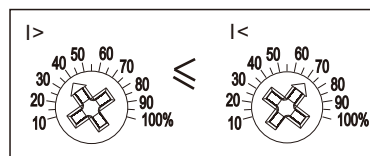
Panel Diagram



Switch settings

SW1	ON	Over or under
	OFF	Over and under
SW2	ON	Only over (Valid when SW1=ON)
	OFF	Only under (Valid when SW1=ON)
SW3	ON	Locking after over/under protection
	OFF	Auto-reset after over/under protection
SW4	ON	11/-14/21-14 Normal closed
	OFF	11-14/21-14 Normal open
SW5	ON	Relay 1 and relay 2 operate simultaneously (This mode is defaulted when SW1=ON)
	OFF	Relay 1 and relay 2 operate separately Valid when SW1=OFF, R1(11,12,14)-Over, R2(21,22,24)-Under

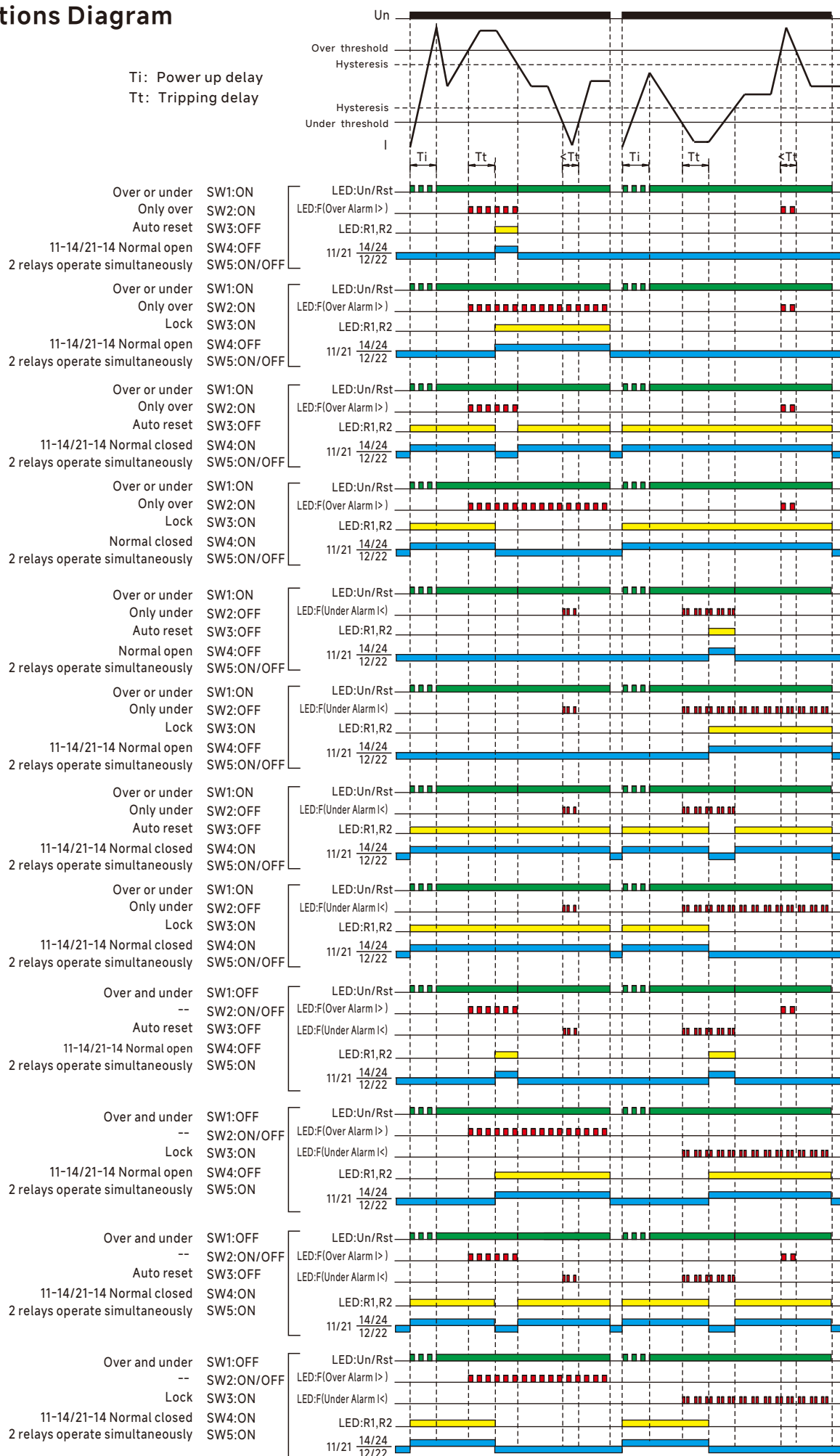
●Error setting while over and under mode

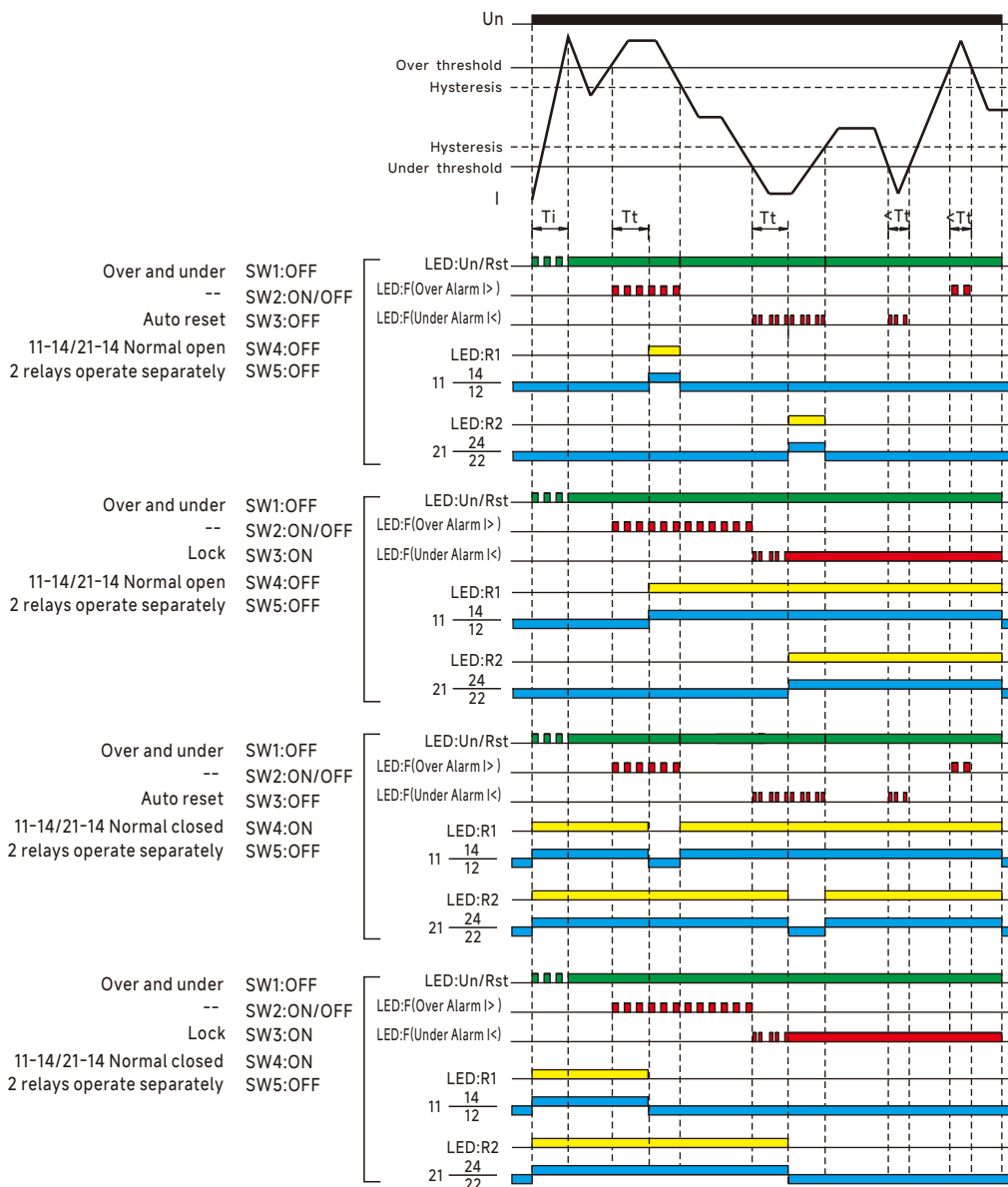


When the under setting value is greater than the over setting value, the indicator lights Un/Rest and F flash simultaneously, and the relay contacts are reset. When the under setting value is less than the over setting value, the indicator light and the relay are restored.

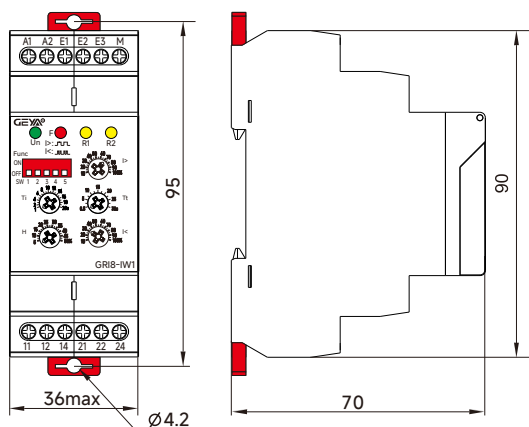
Functions Diagram

Ti: Power up delay
Tt: Tripping delay

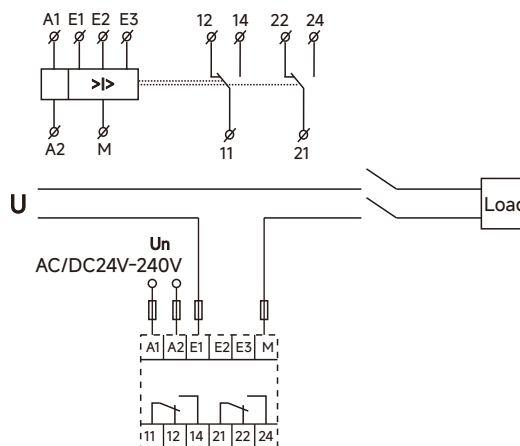




Dimensions(mm)



Wiring Diagram



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.