

Current monitoring relay

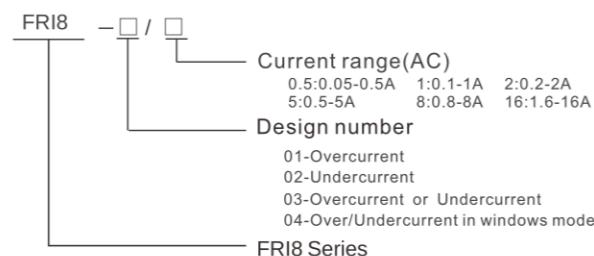
Applications

-Serves for monitoring of heating in rail-switches, heating cables, consumption of one-phase motors, indicates current flow.

Feature

- Adjustable delay 0.1 - 10 s to eliminate short current peaks.
- Flexible adjustment by potentiometer, choice of 6 ranges: AC 0.05-0.5A; AC 0.1-1A; AC 0.2-2A; AC 0.5-5A; AC 0.8-8A; AC 1.6-16A
- Power up delay.
- Possible to use for current scanning from current transformer.
- Universal supply AC/DC 24 - 240 V.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

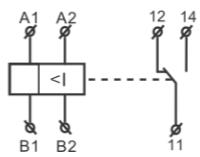
Model and connotation



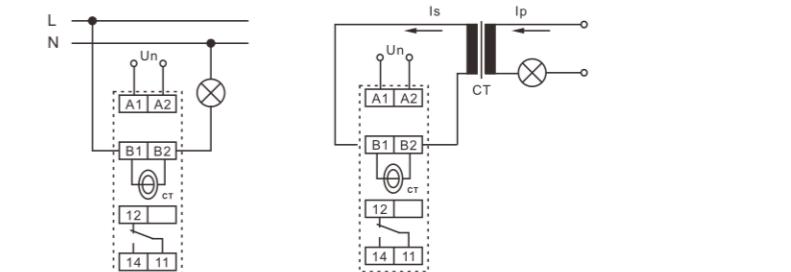
Technical parameters

	FRI8-01	FRI8-02	FRI8-03	FRI8-04
Function	Over current	Under current	Over Under current	Over/Under current
Supply terminals	A1-A2			
Rated supply voltage	AC/DC 24V-240V			
Rated supply frequency	50/60Hz,0			
Burden	max 25VA			
Supply voltage tolerance	-15%+10%			
Current range	0.05A-0.5A 0.1A-1A 0.2A-2A 0.5A-5A 0.8A-8A 1.6A-16A			
Current frequency	AC 50Hz			
Max.operating current	1A 2A 5A 8A 12A 22A			
Current adjustment	potentiometer			
Time delay	adjustable 0.1-10 s			
Power up delay	adjustable 0.1-10 s			
Supply indication	green LED			
Setting accuracy	10 %			
Repeat accuracy	<1 %			
Temperature dependancy	< 0.1 % /°C			
Limit values tolerance	5 % (10% for 0.05-0.5A range)			
Hysteresis	5 %			
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)			
Output	1×SPDT			
Current rating	10A/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			
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.			

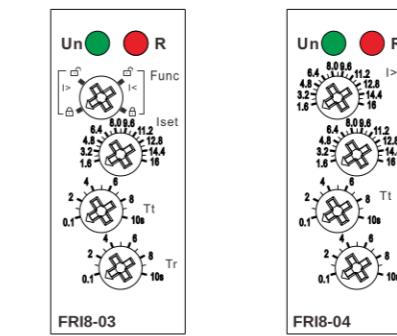
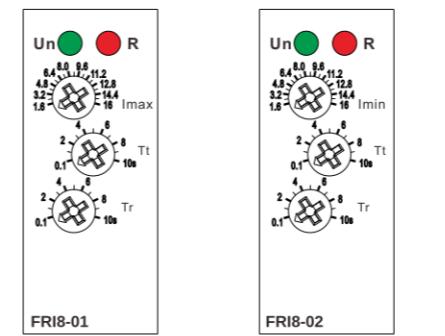
Wiring Diagram



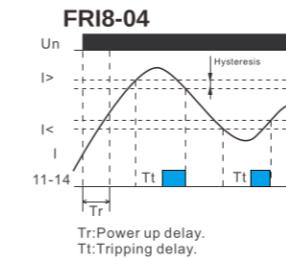
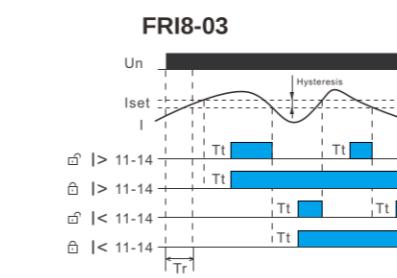
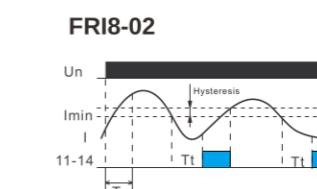
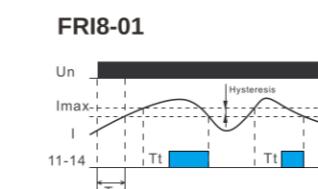
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)
Dimensions	90×18×64mm
Weight	62g
Standards	EN 60255-1



Panel Diagram



Functions Diagram



Dimensions(mm)

