

# Current monitoring relay JARI8-01...04

## Instruction Manual



### General



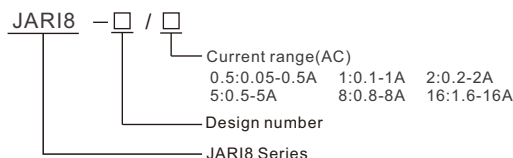
#### Applications

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

#### Function Features

- Adjustable delay 0.5 - 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
- 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.

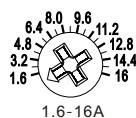
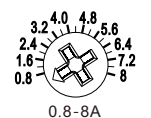
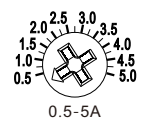
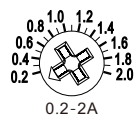
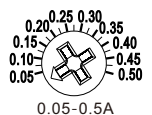
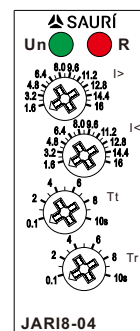
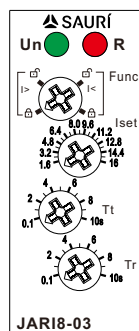
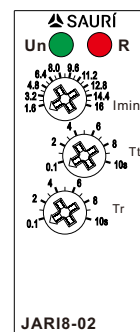
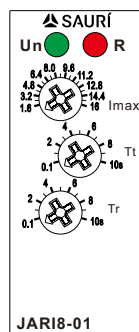
#### Model and connotation



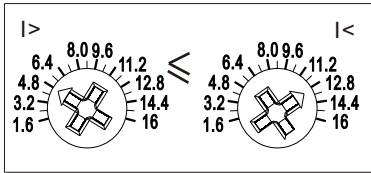
### Technical parameters

Technical parameters	JARI8-01	JARI8-02	JARI8-03	JARI8-04
Function	Over action	Under action	Over/under	Over and under
Supply terminals	A1-A2			
Rated supply voltage	AC/DC 24V-240V			
Rated supply frequency	50/60Hz,0			
Burden	max 2VA			
Supply voltage tolerance	-15%;+10%			
Current range(AC 50Hz)	0.05A-0.5A	0.1A-1A	0.2A-2A	0.5A-5A    0.8A-8A    1.6A-16A
Max. permanent current:(B1-B2)	2A	2A	4A	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 coecient	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 <sup>7</sup>			
Electrical life(AC1)	1×10 <sup>5</sup>			
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 cathogory	III.			
Pollution degree	2			
Max.cable size(mm <sup>2</sup> )	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	IEC60947-5-1			

### Panel Diagram



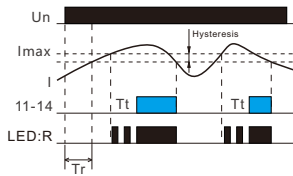
### Wrong setting of JARI8-04



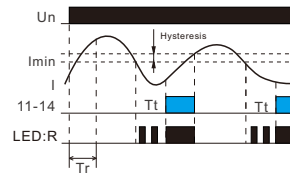
The set over-current threshold value must be larger than under-current threshold value. Otherwise, the two LEDs would flash and the output relay would be disconnected.

## Functions Diagram

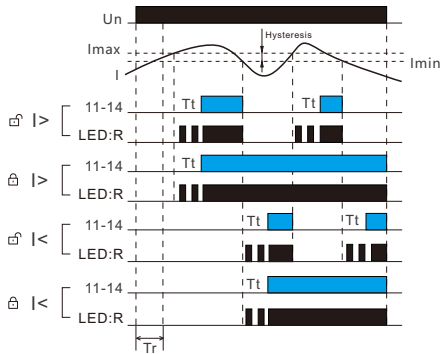
**JARI8-01**



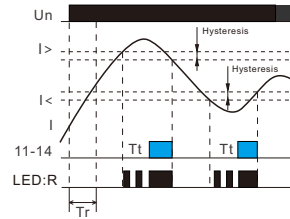
**JARI8-02**



**JARI8-03**

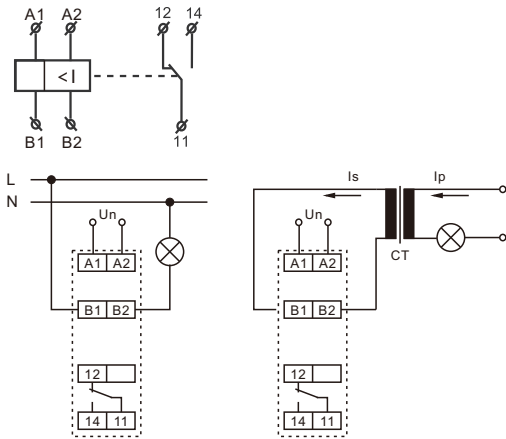


**JARI8-04**

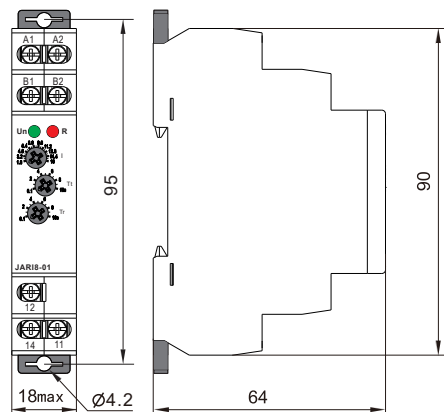


Tr: Power up delay.  
Tt: Tripping delay.

## Wiring Diagram



## 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 relay shall comply with the appropriate safety standards.