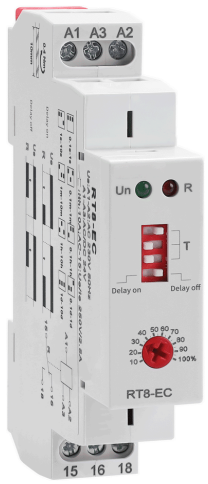
# Dual function time relay RT8-EC
## Instruction Manual




## General

■Applications

-Dual function time relay can be used for industrial equipment, lighting control, heating element control, motor and fan control, with two delay modes, and the delay range covers 0.1 seconds to 10days.

■Function Features

- Two delay modes can be set.
- Supports AC230V ,AC/DC24V two kinds of working voltage.
- Ultra wide delay range, 0.1 seconds - 10 days can be set..
- The working state of the relay is indicated by the LED indicator.
- Ultra small size, only 18mm width, 35mm rail installation.

■Model and connotation

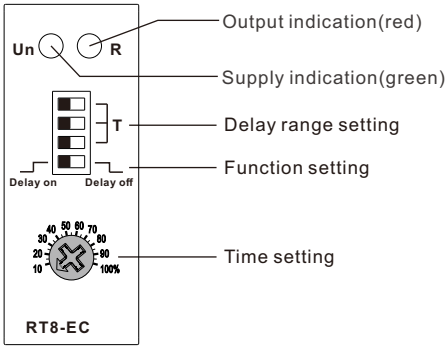
RT8 – EC /□

- Rated control supply voltage
  - A230: AC230V
  - A380: AC380V
- Dual function Time Relay
- RT8 Series

## Technical parameters

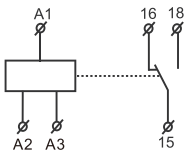
| | RT8-EC |
|---|---|
| Function | ON delay, Delay off |
| Supply terminals | A1-A2(AC230V,AC380V),A1-A3(AC/DC24V) |
| Voltage range | AC230V(50-60Hz) or AC/DC24V, AC380V(50-60Hz) |
| Power input | AC max.6VA/1.3W |
| Supply voltage tolerance | -15%;+10% |
| Supply indication | green LED |
| Time ranges | 0.1s-10day |
| Time setting | potentionmeter |
| Time deviation | ≤10% |
| Repeat accuracy | 0.2%-set value stability |
| Temperature coefficient | 0.05%/℃,at=20℃(0.05%℉, at=68℉) |
| Output | 1×SPDT |
| Current rating | 1×10A(AC1) |
| Switching voltage | 250VAC/24VDC |
| Min.breaking capacity DC | 500mW |
| Output indication | red LED |
| Mechanical life | $1\times10^7$ |
| Electrical life(AC1) | $1\times10^5$ |
| Reset time | max.200ms |
| Operating temperature | -20℃ to +55℃ (-4℉ to 131℉) |
| Storage temperature | -35℃ to +75℃ (-22℉ to 158℉) |
| 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) |
| Dimensions | 90×18×64mm |
| Weight | 52g |
| Standards | EN 61812-1,IEC60947-5-1 |

## Panel Diagram

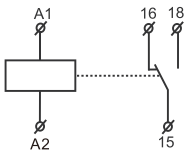



## Wiring diagram

RT8-EC/A220




RT8-EC/A380




## Function

### Delay on

When the relay Un is powered on, the relay starts to delay, and the output contact closes after delay. When Un is powered off, the output contact is disconnected.




### Delay off

When the relay Un is powered on, the output contact of the relay will close immediately and start to delay, and output after delay, The contact is open. If the delay time t is not up to the power loss of relay Un, the output contact is open.



## Delay range setting


0.1s-1s


0.1m-1m


0.1h-1h


0.1d-1d


1s-10s


1m-10m


1h-10h

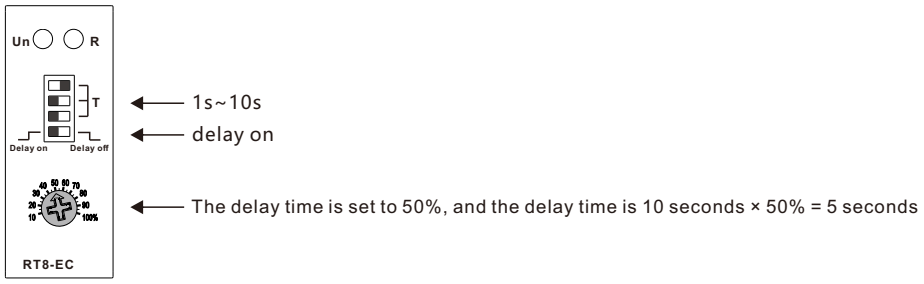

1d-10d

## Delay setting

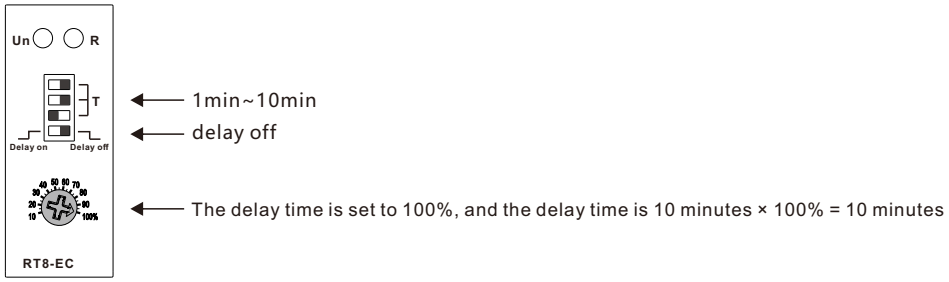
1、Set the delay range and function mode through the switch on the panel.

2、Set potentiometer to set time.

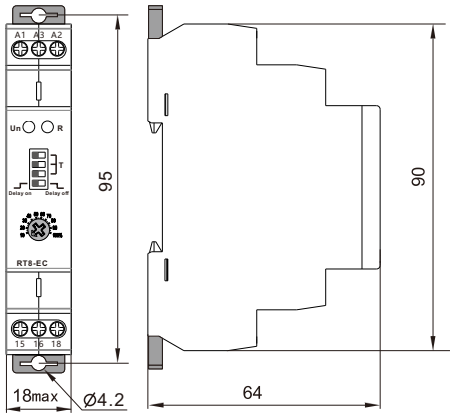
Example 1: Set the working mode as delay on mode, set it for 5 seconds, and set it as follows




Example 2: Set the working mode as delay off mode, set it for 10 minutes, and set it as follows




## 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 time relay shall comply with the appropriate safety standards.