SHANGHAI NEWTREND ELECTRIC CO., LTD.
No. 618 North Huting Road | 201615 | Shanghai | China
Tel / WhatsApp: +86-18019187010 | sales@sntelec.com | www.sntelec.com

RT8-K1 Digital Setting Timer Relay

NewTrend RT8-K1 is a digital-setting multifunction timer relay with four operating modes: on-delay, power-on interval, off-delay with a control input, and single shot. The timing range covers 0.1 seconds to 99 hours with ON and OFF settings. It has 1 SPDT contacts rated 16A AC-1 per contact, separate supply/output LEDs and an 18mm housing for 35mm DIN-rail mounting. Choose AC/DC 12-240V (W240) or AC 230V (A230) control supply.

Parameter	Specification
Model	RT8-K1
Output contacts	1 SPDT
A230 power input	AC maximum 6VA / 1.3W
Weight	W240: 64g; A230: 64g
Function	A: on-delay (power-on); B: interval (power-on); E: off-delay (S opens); F: single shot
Supply terminals	A1-A2
Control supply options	W240: AC/DC 12-240V; A230: AC 230V; 50-60Hz
Supply tolerance	-15% to +10%
W240 burden	AC 0.09-3VA / DC 0.05-1.7W
Supply indication	Green LED
Time setting	Digital setting
Timing range	0.1s-99h; ON; OFF
Marked time ranges	0.1-9.9s; 1-99s; 0.1-9.9min; 1-99min; 0.1-9.9h; 1-99h; ON; OFF
Time setting deviation	Maximum 1%
Repeat accuracy	0.2% of set value
Temperature coefficient	0.05%/degree C at 20 degrees C
Contact rating	1 x 16A, AC-1
Switching voltage	250VAC / 24VDC
Minimum DC breaking power	500mW
Output indication	Red LED
Mechanical life	10,000,000 operations
Electrical life (AC-1)	100,000 operations
Reset time	Maximum 200ms
Operating temperature	-20 to +55 degrees C
Storage temperature	-35 to +75 degrees C
Mounting	35mm DIN rail to EN/IEC 60715
Protection	IP40 front panel; IP20 terminals
Operating position	Any
Overvoltage category	III
Pollution degree	2
Maximum conductor size	Solid: 1 x 2.5mm2 or 2 x 1.5mm2; with sleeve: 1 x 2.5mm2 (AWG 12)
Terminal tightening torque	0.4Nm
Body dimensions	90 x 18 x 64mm
Referenced standards	EN 61812-1; IEC 60947-5-1

Operating modes

Mode A



Mode E



Mode B



Mode F



A - On-delay: applying the supply starts the timer. The output transfers after the selected interval and resets when the supply is removed.

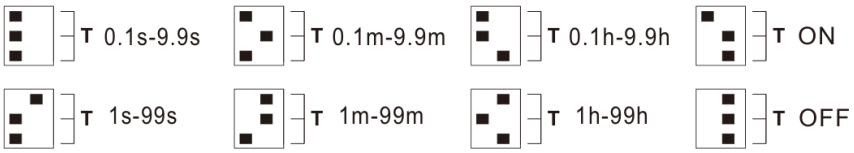
B - Power-on interval: applying the supply transfers the output immediately. It returns after the selected interval; removing the supply also resets the relay.

E - Off-delay: keep the supply applied. Closing S energizes the output; opening S starts the delay before it releases. Closing S during the delay restarts the sequence.

F - Single shot: with the supply applied, a trigger starts one timed output pulse. Triggers during the pulse are ignored; a new trigger can start another pulse after the output has released.

Timing ranges and digital setting

Time Range

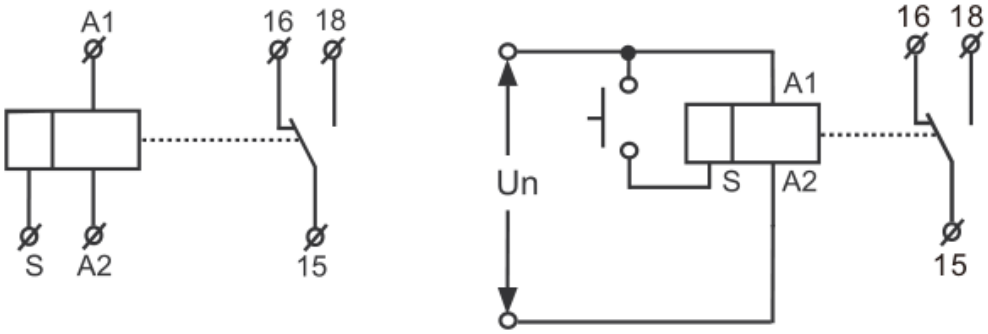


Setting example



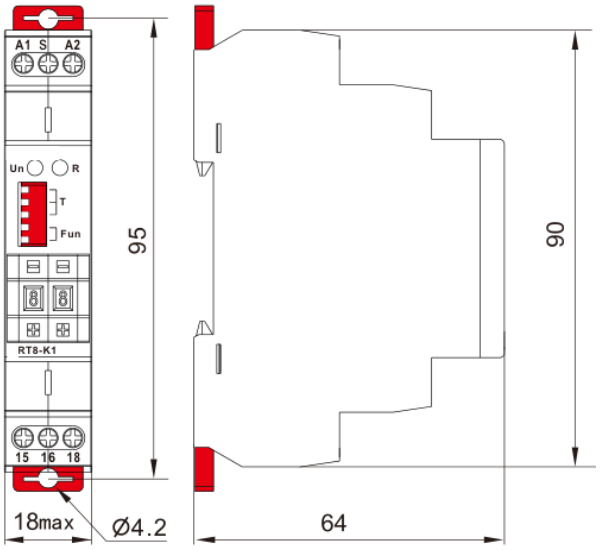
T selects the timing range; Fun selects the operating mode. Set the two digital counters to the required value. For mode A with 5.5s, choose the 0.1-9.9s range and set 55. For mode E with 30min, choose the 1-99min range and set 30. ON holds the output on; OFF holds it off.

Wiring



A1-A2: control supply. S: control input. First output: 15 common, 16 normally closed, 18 normally open.

Dimensions





Body: 90 x 18 x 64mm. Overall height: 95mm. Fixing holes: 4.2mm.

Common housing dimensions; RT8-K1 front view shown.

Installation

Installation and wiring must be carried out by qualified electricians. Isolate the circuit before wiring and comply with the applicable safety standards. Route electrical waste through the appropriate collection and recycling system.