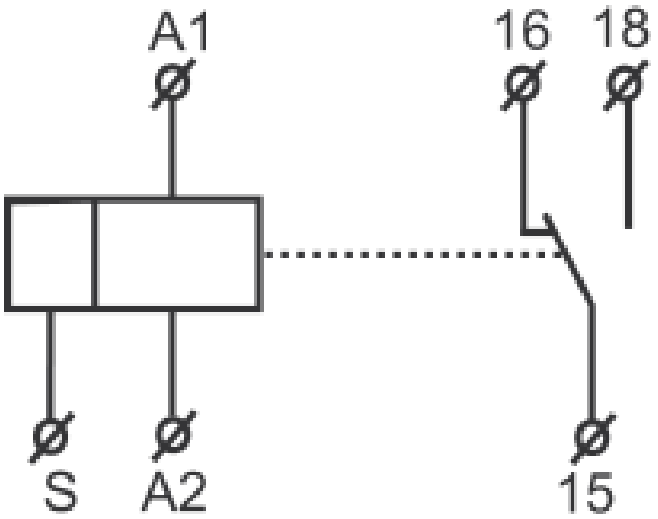
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RT8-M1 Multifunction Timer Relay

NewTrend RT8-M1 combines ten selectable timing and switching functions in an 18mm DIN-rail housing. Rotary switches select the function and time range, with a 10%-100% potentiometer for fine adjustment. The 1 SPDT output switches one control circuit. Choose the wide-range AC/DC supply or the AC 230V version to match the control circuit.

Parameter	Specification
Model	RT8-M1
Output contacts	1 SPDT
A230 power input	AC maximum 6VA / 1.3W
Weight	W240: 63g; A230: 62g
Function	10 functions: A-J; see timing diagrams
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	Range selector and 10%-100% potentiometer
Adjustment range	0.1s-10days; ON; OFF
Marked time ranges	1s, 10s, 1min, 10min, 1h, 10h, 1day, 10days; ON and OFF positions
Time setting deviation	10% with mechanical adjustment
Repeat accuracy	0.2% of set value
Temperature coefficient	0.05%/degree C at 20 degrees C
Contact rating	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	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

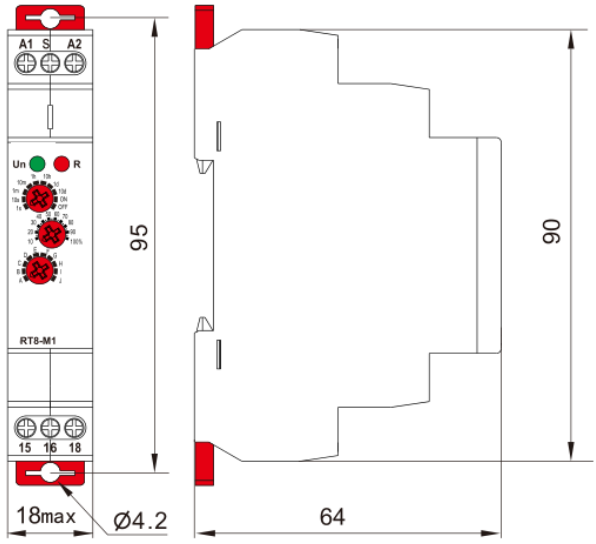
Connections and operation



Ten selectable functions cover power-on delay, timed interval, repeat cycling, S-controlled timing, latching and a delayed 0.5-second pulse.

The wiring and timing diagrams define the operating sequence; confirm the required single-shot and S-input behavior when ordering.

Dimensions and adjustment





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

Common housing dimensions; RT8-M1 front view shown.

Set delay time as the selected range multiplied by the 10%-100% fine adjustment. ON and OFF provide permanent output states. Confirm the required S-input and reset behavior against the selected timing diagram.

Installation

Installation and wiring must be performed by qualified electricians in accordance with applicable safety standards. Isolate the circuit before wiring and use the appropriate electrical-waste collection route.

Selectable operating functions A-J

A: On-delay (power-on)



B: Interval (power-on)



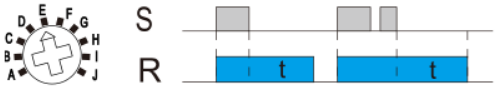
C: Repeat cycle, starting OFF



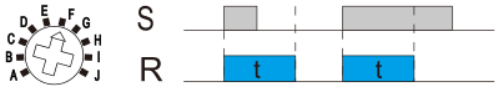
D: Repeat cycle, starting ON



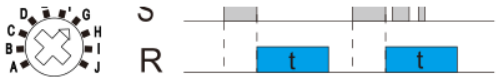
E: Off-delay, S break



F: Single shot



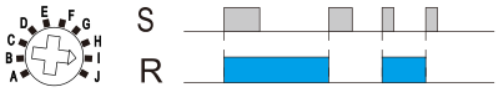
G: Single shot, trailing edge



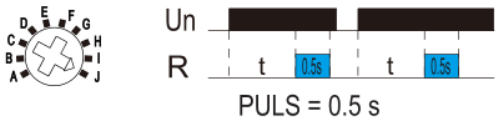
H: On/off delay



I: Latching relay



J: Pulse generator, 0.5s pulse



Un: control supply. S: trigger input. R: relay output. t: selected delay. Use the illustrated function when specifying the operating sequence.