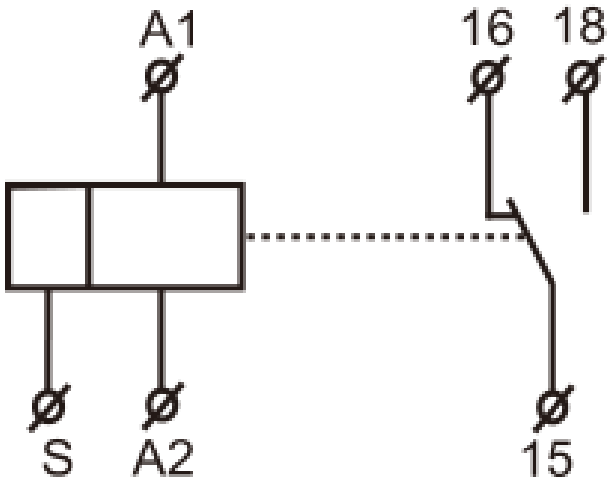
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RT6-N1 Extended Multifunction Timer Relay

NewTrend RT6-N1 provides ten extended timing modes in an 18mm DIN-rail housing. In addition to power-on on-delay and interval operation, it offers S-triggered delay, accumulated timing, repeat cycling, timing on both S edges and a delayed 1-second pulse. Rotary selectors and a fine-adjustment potentiometer set the function and timing interval. The relay has 1 SPDT contacts rated 10A AC-1.

Parameter	Specification
Model	RT6-N1
Output contacts	1 SPDT
A230 power input	AC maximum 6VA / 1.3W
Weight	S240: 53g; A230: 55g
Function	A, As, Aw, B, Bs, Bw, Cs, Ds, Fe, Js
Supply terminals	A1-A2
Control supply options	S240: AC/DC 24-240V; A230: AC 230V; 50-60Hz
Supply tolerance	-15% to +10%
S240 burden	AC 0.7-3VA / DC 0.5-1.7W
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	10A (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

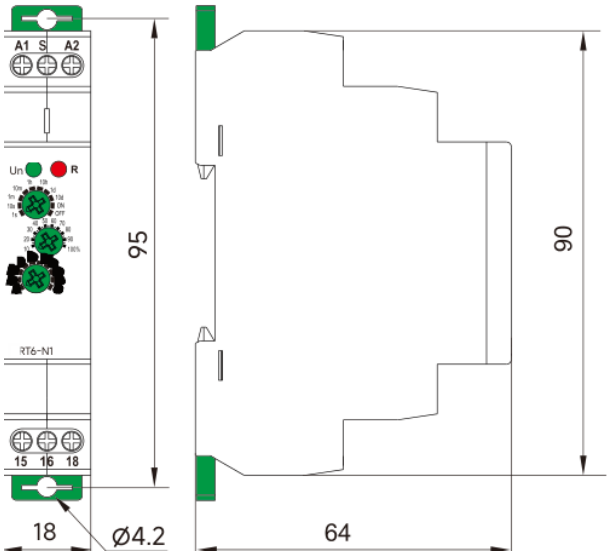
Connections and operation

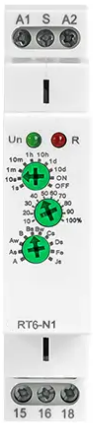


Power-on modes A and B provide on-delay and timed-interval operation. The remaining modes use the S input for the illustrated triggered, accumulated, cycling or edge-controlled sequence.

Js delivers a 1-second output pulse after the selected delay. Use the waveform chart to specify the trigger and retrigger behavior.

Dimensions and adjustment





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

RT6-N1 housing dimensions.

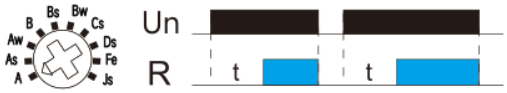
Delay time equals the selected range multiplied by the 10%-100% fine adjustment. Match the S-input wiring and function code to the required sequence. ON and OFF provide permanent output states.

Installation

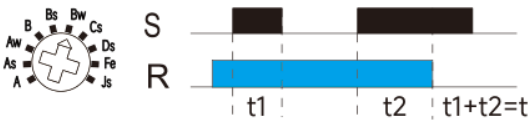
Installation and wiring must be performed by qualified electricians in accordance with applicable safety standards. Isolate the circuit before wiring and use the appropriate electrical-waste collection route.

Ten operating functions A, As, Aw, B, Bs, Bw, Cs, Ds, Fe and Js

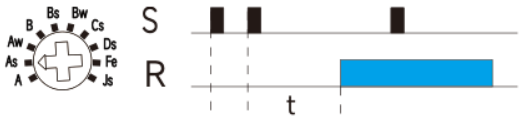
A: Power-on on-delay



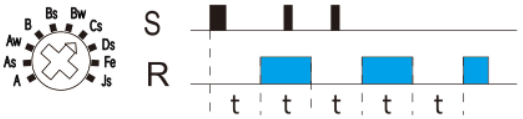
Bw: Accumulated timed interval



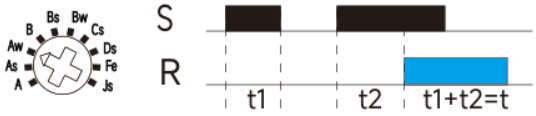
As: Retriggerable on-delay



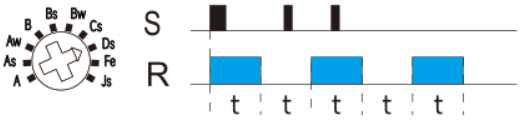
Cs: Triggered cycle, starting OFF



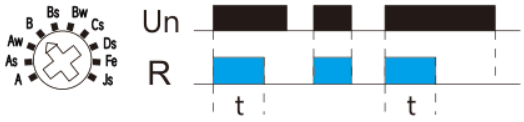
Aw: Accumulated on-delay



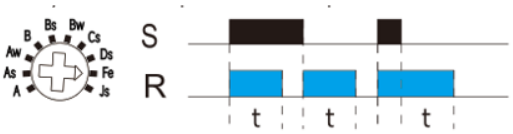
Ds: Triggered cycle, starting ON



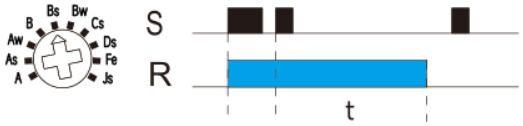
B: Power-on interval



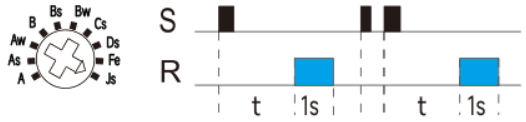
Fe: Timed output on both S edges



Bs: Retriggerable timed output



Js: Delayed 1-second pulse



Un/Us: control supply. S: trigger input. R: relay output. t: selected interval. Accumulated modes add the illustrated S-input periods; Js produces a 1-second output pulse.