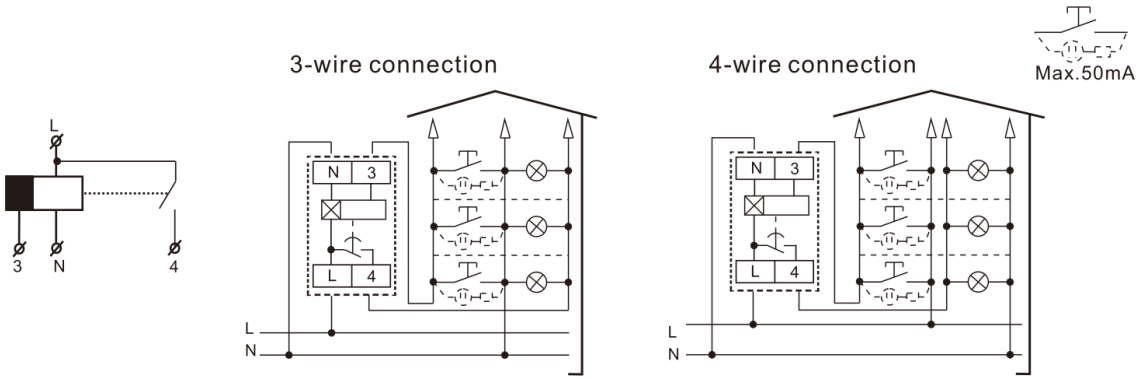
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RT8-LM Staircase Lighting Timer Switch

NewTrend RT8-LM controls delayed lighting in stairways, corridors, entrances and halls. Its adjustable 0.5-20 minute interval and 16A AC-1 normally open output suit compact lighting-control panels. Ten function positions include timed lighting, warning sequences, extended operation and permanent output; the relay also provides zero-crossing switching. The 18mm housing mounts on a DIN rail and uses an AC 230V supply.

Parameter	Specification
Model	RT8-LM
Output contacts	1 SPST (NO)
Function	Ten staircase-lighting modes; zero-crossing switching
Control supply	AC 230V, 50-60Hz
Supply terminals	L-N
Power input	AC maximum 6VA / 1.3W
Time setting	Potentiometer, 0.5-20 minutes
Minimum power-on time	200ms
Illuminated pushbuttons	N-3 or L-3; maximum 50mA
Glow-lamp reference	Maximum 75 lamps at 230V, tested with 0.68mA/230VAC glow lamps
Weight	70g
Supply tolerance	-15% to +10%
Supply indication	Green LED
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	0.8Nm
Body dimensions	90 x 18 x 64mm
Referenced standards	EN 61812-1; IEC 60669-2-3; IEC 60947-5-1
Incandescent lamps	3600W
Halogen lamps	3600W
Series-corrected fluorescent lamps	1000W
Parallel-corrected fluorescent lamps	900W, 125uF
Compact fluorescent lamps	400W
LED lamps below 2W each	55W total
LED lamps above 2W each	600W total

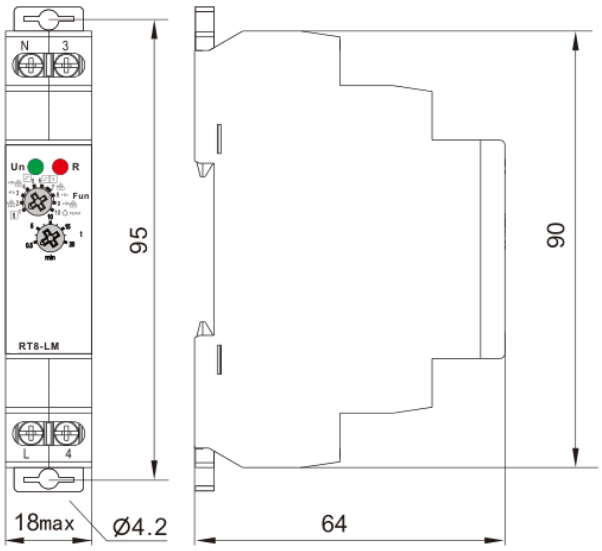
Connections and operation



Ten function positions provide the operating sequences shown in the numbered timing chart.

Use the connection diagram that matches the installation wiring. Illuminated pushbuttons are supported within the stated current and quantity limits.

Dimensions and adjustment





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

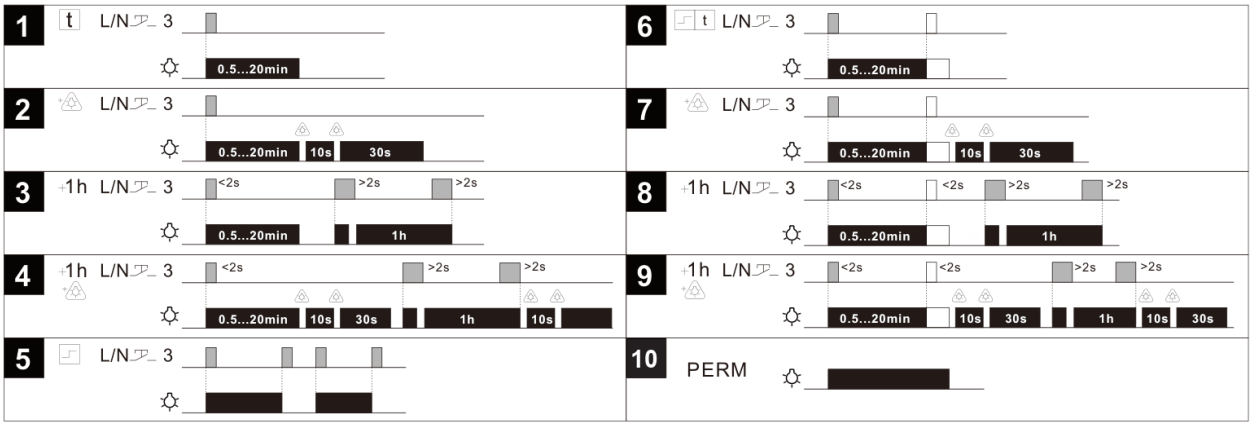
RT8-LM housing dimensions.

Select the required function position and adjust the interval to 0.5-20 minutes. The function chart shows warning pulses, long-operation and permanent-output behavior.

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 modes



L-N: supply. Terminal 3: control input. L-4: switched output. Follow the applicable 3-wire or 4-wire connection diagram.

Lamp-load reference limits

Incandescent	3600W
Halogen lamp	3600W
Fluorescent, corrected, in series	1000W
Fluorescent, corrected, in paralle	900W(125uF)
Compact fluorescent	400W
LED lamps(<2W)	55W
LED lamps(>2W)	600W

Lamp-load limits depend on lamp technology and inrush current; do not substitute the general AC-1 current rating for these limits.