Product data sheet

Specifications

time delay relay 10 functions - 1 s.. 100 h - 12..240 V AC/DC - 1 OC

RE11RMMW

⚠ **Discontinued on:** Jan 29, 2021

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Main

Range Of Product	Zelio Time
Product Or Component Type	Modular timing relay
Discrete Output Type	Relay
Component Name	RE11R
Time Delay Type	B C Ac Bw A Ht At Di H D
Time Delay Range	6...60 min 0.1...1 s 1...10 h 1...10 s 6...60 s 1...10 min 10...100 h
[Us] Rated Supply Voltage	12...240 V AC/DC at 50/60 Hz
Nominal Output Current	8 A

Complementary

Contacts Material	AgNi (cadmium free)
Width Pitch Dimension	17.5 mm
Control Type	Selector switch front panel
Voltage Range	0.85...1.1 Us
Connections - Terminals	Screw terminals, 2 x 1.5 mm² without cable end Screw terminals, 2 x 2.5 mm² + 1 x 4 mm² with cable end
Housing Material	Self-extinguishing
Repeat Accuracy	+/- 0.5 % conforming to IEC 61812-1
Temperature Drift	+/- 0.05 %/°C
Voltage Drift	+/- 0.2 %/V
Setting Accuracy Of Time Delay	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1
Minimum Pulse Duration	100 ms with load in parallel 30 ms

Maximum Reset Time	100 ms on de-energisation
On-Load Factor	100 %
Maximum Power Consumption	32 VA at 240 V
Maximum Power Consumption	0.6 W at 24 V 1.5 W at 240 V
Minimum Switching Current	10 mA
Maximum Switching Current	8 A
Maximum Switching Voltage	250 V
Breaking Capacity	2000 VA
Breaking Capacity	80 W
Electrical Durability	100000 cycles at 8 A, 250 V for resistive load
Mechanical Durability	5000000 cycles
[Uimp] Rated Impulse Withstand Voltage	5 kV for 1.2…50 µs conforming to IEC 60664-1 5 kV for 1.2…50 µs conforming to IEC 61812-1
Marking	CE
Creepage Distance	4 kV/3 conforming to IEC 60664-1
Surge Withstand	1 kV differential mode conforming to IEC 61000-4-5 level 3 2 kV common mode conforming to IEC 61000-4-5 level 3
Mounting Support	35 mm symmetrical mounting rail conforming to EN 50022
Local Signalling	LED indicator (green) for flashing: timing in progress LED indicator (green) for on steady: relay energised, no timing in progress LED indicator (green) for pulsing: relay energised, no timing in progress (except functions Di-D)
Net Weight	0.06 kg

Environment

|	
Immunity To Microbreaks	10 ms
Dielectric Strength	2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
Standards	73/23/EEC IEC 61812-1 IEC 60669-2-3 89/336/EEC 93/68/EEC EN 50081-1/2 EN 50082-1/2
Product Certifications	GL cULus CSA
Ambient Air Temperature For Storage	-30…60 °C
Ambient Air Temperature For Operation	-20…60 °C
Ip Degree Of Protection	IP20 (terminal block) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529
Vibration Resistance	0.35 mm (f= 10…55 Hz) conforming to IEC 60068-2-6
Relative Humidity	93 % without condensation conforming to IEC 60068-2-3
Resistance To Electrostatic Discharge	6 kV in contact conforming to IEC 61000-4-2 level 3 8 kV in air conforming to IEC 61000-4-2 level 3
Resistance To Electromagnetic Fields	10 V/m 80 MHz to 1 GHz conforming to ENV 50140/204 level 3 10 V/m 80 MHz to 1 GHz conforming to IEC 61000-4-3 level 3

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Resistance To Fast Transients	1 kV (capacitive connecting clip) conforming to IEC 61000-4-4 level 3 2 kV (direct) conforming to IEC 61000-4-4 level 3
Immunity To Radioelectric Fields	10 V (0.15...80 MHz) conforming to ENV 50141 (IEC 61000-4-6)
Immunity To Voltage Dips	30 % / 10 ms conforming to IEC 61000-4-11 60 % / 100 ms conforming to IEC 61000-4-11 95 % / 5 s conforming to IEC 61000-4-11
Disturbance Radiated/Conducted	Class B conforming to EN 55022 (EN 55011 group 1)

Contractual warranty

Warranty	18 months

Dimensions Drawings

Width 17.5 mm
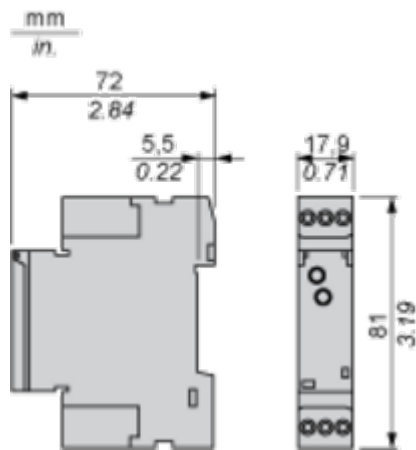
Connections and Schema

Internal Wiring Diagram

A1	15	Y1

A1

A2

15

16

18

18	16	A2
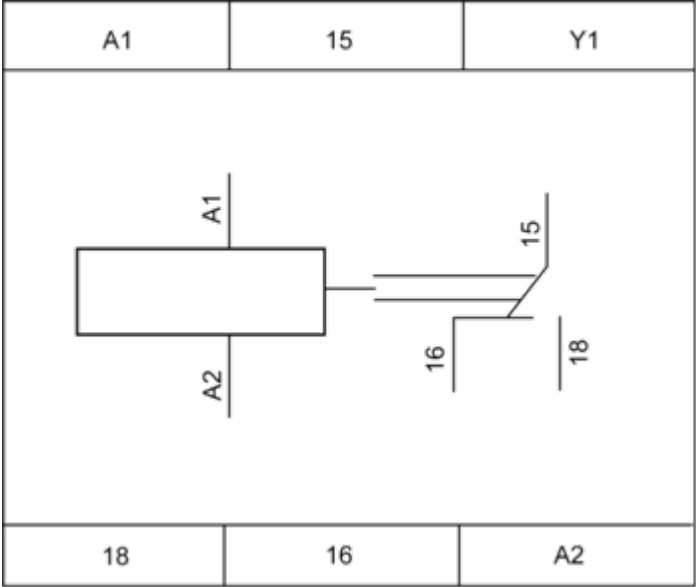
Wiring Diagram
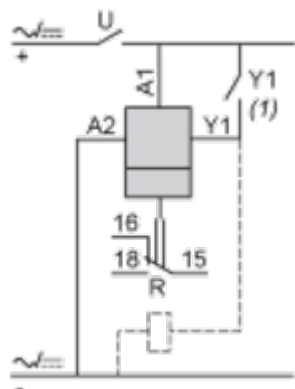
1) Contact Y1:

- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

Technical Description

Function A : Power on Delay Relay

Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.
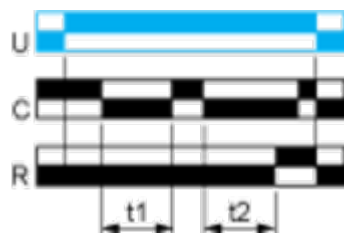
Function: 1 Output
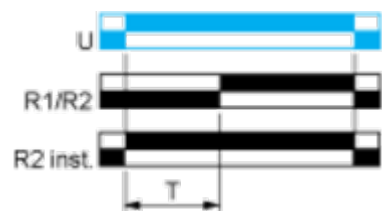
Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ac : On- and Off-Delay Relay with Control Signal

Description

After power-up, closing of the control contact C causes the timing period T to start (timing can be interrupted by operating the Gate control contact G). At the end of this timing period, the relay closes.
When control contact C re-opens, the timing T starts.
At the end of this timing period T, the output reverts to its initial position (timing can be interrupted by operating the Gate control contact G).
The second output can be either timed or instantaneous.
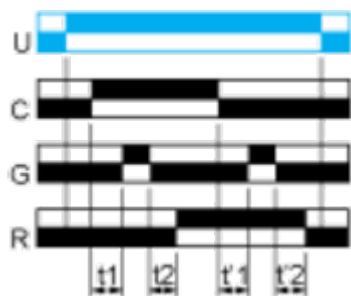
Function: 1 Output
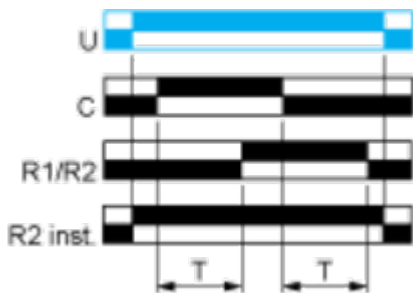
Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function At : Power on Delay Relay (Summation) with Control Signal

Description

After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.
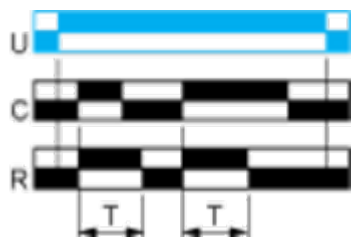
Function: 1 Output

$T = t1 + t2 + ...$

Function B : Interval Relay with Control Signal

Description

After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.

Function: 1 Output

Function Bw : Double Interval Relay with Control Signal

Description

On closing and opening of control contact C, the output R closes for the duration of the timing period T.

Function: 1 Output

Function C : Off-Delay Relay with Control Signal

Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output

Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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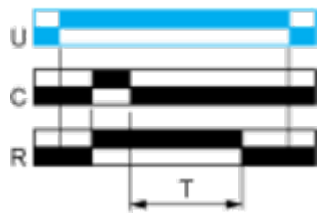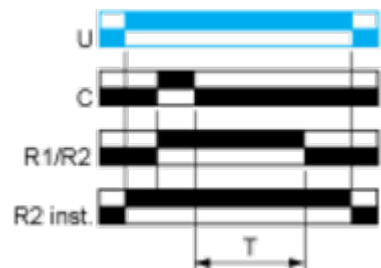
Function D : Symmetrical Flasher Relay (Starting Pulse Off)

Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

The second output can be either timed or instantaneous.
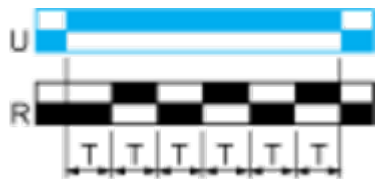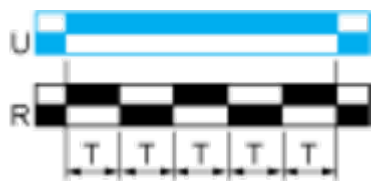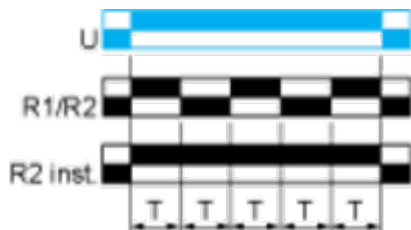
Function: 1 Output
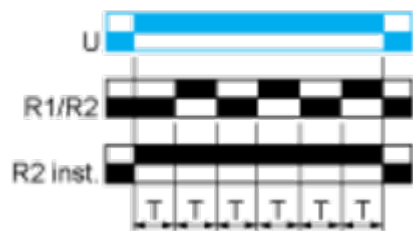
Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Di : Symmetrical Flasher Relay (Starting Pulse On)

Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

The second output can be either timed or instantaneous.

Function: 1 Output

Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

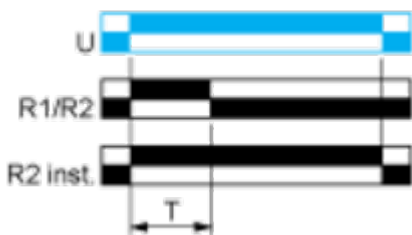**Function H : Interval Relay**

Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output

Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ht : Interval Relay (Summation) with Control Signal

Description

On energisation, the output R closes for the duration of a timing period T then reverts to its initial state.

Pulsing or maintaining control contact C will again close the output R.

Timing T is only active when control contact C is released and so the output R will not revert to its initial state until after a time t1 + t2 +...

The relay memorises the total, cumulative opening time of control contact C and, once the set time T is reached, the output R reverts to its initial state.

Function: 1 Output
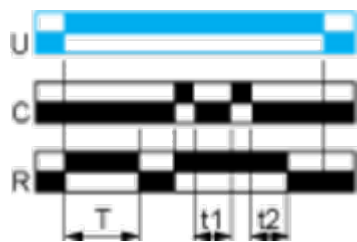
T = t1 + t2 +...

Legend

	Relay de-energised
	Relay energised
	Output open
	Output closed

C	Control contact
G	Gate
R	Relay or solid state output
R1/R2	2 timed outputs
R2 inst.	The second output is instantaneous if the right position is selected
T	Timing period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply