



Main

Range of product	Zelio Time
Product or component type	Modular timing relay
Discrete output type	Solid state
Maximum Width	0.69 in (17.5 mm)
Component name	RE17L
Time delay type	D A B H Ac At Ht Di C Bw
Time delay range	1...10 s 6...60 s 6...60 min 1...10 h 10...100 h 1...10 min 0.1...1 s
Nominal output current	0.7 A

Complementary

Control type	Selector switch front panel
[Us] rated supply voltage	24...240 V AC 50/60 Hz
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz +/- 5 %
Release of input voltage	8 V
Control signal pulse width	0.05 s typical
Insulation resistance	100 MOhm 500 V DC IEC 60664-1
[Uimp] rated impulse withstand voltage	5 kV 1.2/50 µs
Power on delay	100 ms
Connections - terminals	Screw terminals, 1 x 0.5...1 x 3.3 mm ² AWG 20...AWG 12) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² AWG 24...AWG 16) flexible with cable end
Tightening torque	5.31...8.85 lbf.in (0.6...1 N.m) IEC 60947-1
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.5 % IEC 61812-1
Temperature drift	+/- 0.05 %/°C
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 10 % of full scale 25 °C IEC 61812-1
Reset time	350 ms on de-energisation typical
On-load factor	100 %
Power consumption in VA	0...3 VA 240 V AC
Maximum power consumption in W	1.5 W 240 V DC

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Breaking capacity	0.5 A AC UL 0.7 A AC 68 °F (20 °C)
Operating frequency	10 Hz
Maximum output current	20 A
Minimum switching current	10 mA
Maximum leakage current	5 mA
Maximum switching voltage	250 V AC
Maximum voltage drop	<4 V 3-wire <8 V 2-wire
Electrical durability	100000000 cycles
Marking	CE
Creepage distance	4 kV/3 IEC 60664-1
Safety reliability data	MTTFd = 353.8 years B10d = 320000
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail EN/IEC 60715
Net Weight	0.15 lb(US) (0.068 kg)
Time delay type	A, Ac, At, B, Bw, C, D, Di, H, Ht
Functionality	Multifunction
Compatibility code	RE17

Environment

Immunity to microbreaks	20 ms
Derating factor	5 mA/°C
Standards	2004/108/EC EN 61000-6-2 IEC 61812-1 EN 61000-6-4 EN 61000-6-1 2006/95/EC EN 61000-6-3
Product certifications	GL CULus CSA
Ambient air temperature for storage	-22...140 °F (-30...60 °C)
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
IP degree of protection	IP20 IEC 60529 terminal block) IP40 IEC 60529 housing) IP50 IEC 60529 front panel)
Vibration resistance	20 m/s ² 10...150 Hz)IEC 60068-2-6
Shock resistance	15 gn 11 ms IEC 60068-2-27
Relative humidity	93 % without condensation IEC 60068-2-30
Electromagnetic compatibility	Electrostatic discharge immunity test 6 kV in contact) level 3 IEC 61000-4-2 Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2 Susceptibility to electromagnetic fields 10 V/m 80 MHz to 1 GHz) level 3 IEC 61000-4-3 Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4 Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4 1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5 1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5 Conducted RF disturbances 10 V 0.15...80 MHz) level 3 IEC 61000-4-6 Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11 Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11 Conducted and radiated emissionsclass B EN 55022

Ordering and shipping details

Category	22370 - RE, RM MISC TIMERS & COUNTERS
Discount Schedule	CP2
GTIN	00785901285878
Nbr. of units in pkg.	1
Package weight(Lbs)	0.16 lb(US) (0.07 kg)

Returnability	Yes
Country of origin	ID

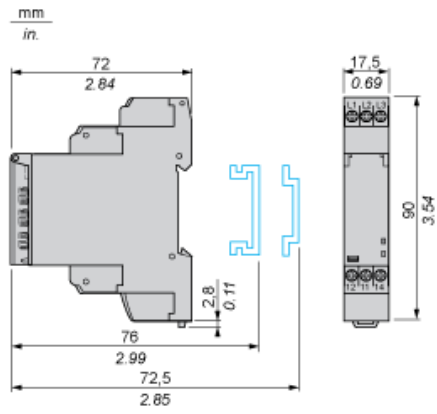
Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.10 in (2.8 cm)
Package 1 width	3.78 in (9.6 cm)
Package 1 Length	3.07 in (7.8 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Weight	7.10 lb(US) (3.222 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

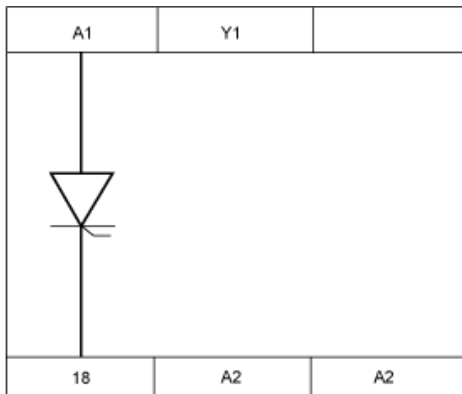
Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

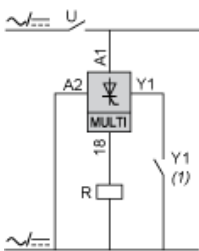
Width 17.5 mm



Internal Wiring Diagram



Wiring Diagram



(1) Contact Y1:

- Control for functions B, C, Ac, Bw.
- Partial stop for functions At, Ht.
- Function D if Di selected.
- Not used for functions A and H.

Function A : Power on Delay Relay

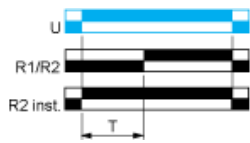
Description

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-Delay & Off-Delay with Control Signal

Description

After energisation of power supply and energization of Y1 causes the timing period T to start.

At the end of this timing period, the output(s) R close(s).

When deenergization of Y1, the timing T starts.

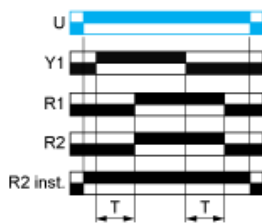
At the end of this timing period T, the output(s) R revert(s) to its/their initial position.

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

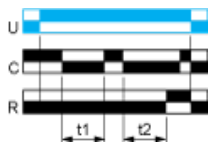


Function At : Power on Delay Relay (Summation) with Control Signal

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



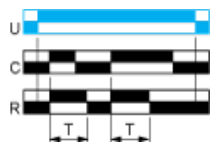
$$T = t1 + t2 + \dots$$

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

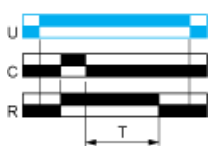


Function C : Off-Delay Relay with Control Signal

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.)

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

Description

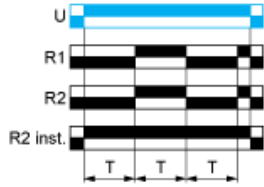
On energisation of power supply, output(s) R starts at its/their initial state for timing duration T then change(s) to output(s) R close(s) for the same timing duration T. This cycle is repeated indefinitely until power supply removal. Specially for RE17*, RE22R2AMU, RE22R2MMW,

RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



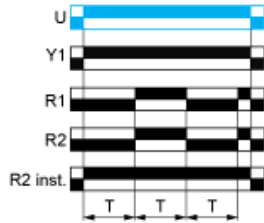
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Function Di : Symmetrical Flasher Relay (Starting Pulse On)

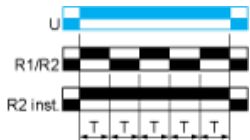
Description

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

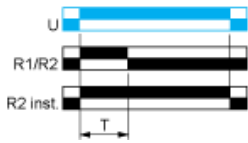
Description

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 & With Pause / Summation Control

Description

On energisation of power supply, output(s) R close(s) and timing period T starts.

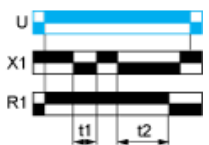
The timing can be interrupted / paused each time X1 energizes.

When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state. Reenergization of X1 will also cause output(s) R close(s) if the time has elapsed and restart the same operation as described at the beginning.

Except for RE17*, RE22R2MMW, RENF22R2MMW, RE22R2MMU and RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.

The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 1 Output



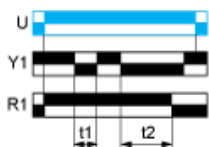
$T = t_1 + t_2 + \dots$

Function: 2 Outputs



$T = t_1 + t_2 + \dots$

Function: 1 Output with Retrieger / Restart Control




$T = t_1 + t_2 + \dots$


Function: 2 Outputs with Retrieger / Restart Control



$T = t_1 + t_2 + \dots$

Legend

 Relay de-energised

 Relay energised

 Output open

 Output closed

C Control contact

G Gate

R Relay or solid state output

R1/ 2 timed outputs

R2

R2 The second output is instantaneous if the right position is selected

inst.

T Timing period

Ta Adjustable On-delay

-

Tr Adjustable Off-delay

-

U Supply