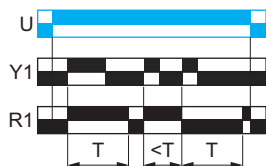


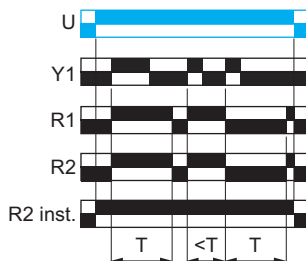
Functions (continued)

Function Tt: Retriggerable bistable relay with control signal on

1 output



2 outputs



After power-on and closure of Y1, the output(s) R close(s) and the timing T starts.

If the interval between 2 consecutive closures of Y1 is greater than the preset value T, the output(s) R will toggle from its/their present state at the end of the timing period.

If the interval between 2 consecutive closures of Y1 is less than the preset value T, the output(s) R toggle from its/their present state as soon as Y1 closes without completing duration T.

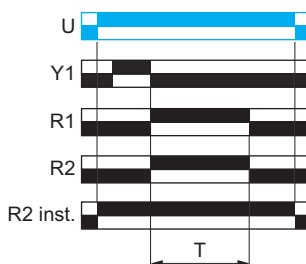
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function W: Interval relay with control signal off

1 output



2 outputs



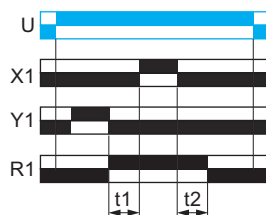
After power-on and closure of contact Y1, followed by opening of the control contact Y1, the output(s) R close(s) for a timing period T.

At the end of this timing period the output(s) revert to its/their initial state.

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

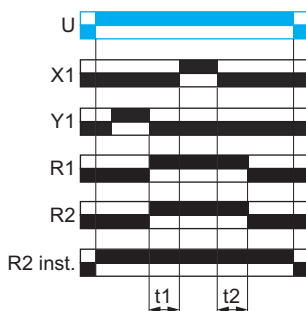
Function Wt: Interval relay with control signal off and pause/summation control signal

1 output



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

2 outputs



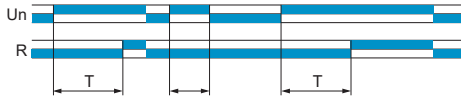
After power-on and at the end of control pulse Y1, the output(s) R close(s) for a timing period T. Timing can be interrupted/paused each time X1 closes.

When the cumulative total time elapsed reaches the preset value T, the output(s) R open(s).

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

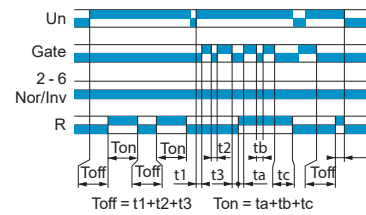
RE48ATM12MW

Function A: Power on-delay relay

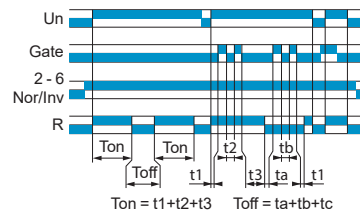


RE48ACV12MW

Function L: Asymmetrical flashing relay (starting pulse-off)

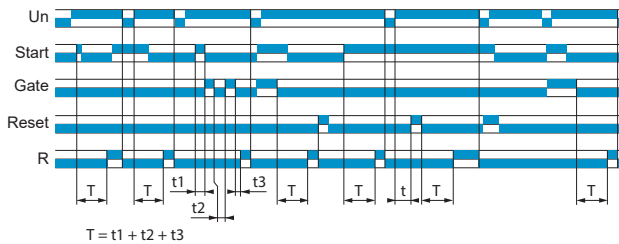


Function Li: Asymmetrical flashing relay (starting pulse-on)

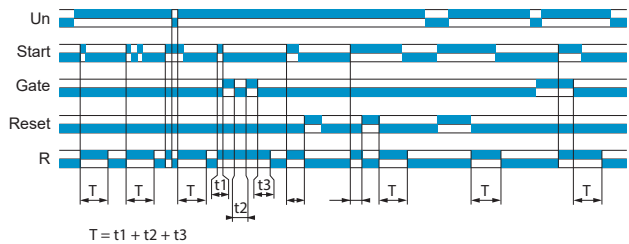


RE48AML12MW

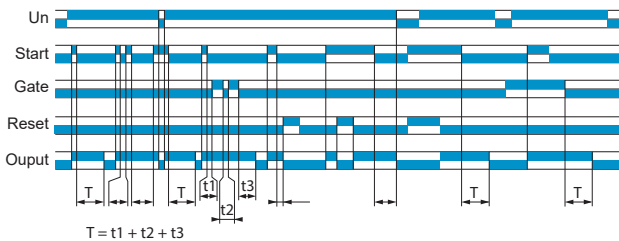
Function A: Power on-delay relay



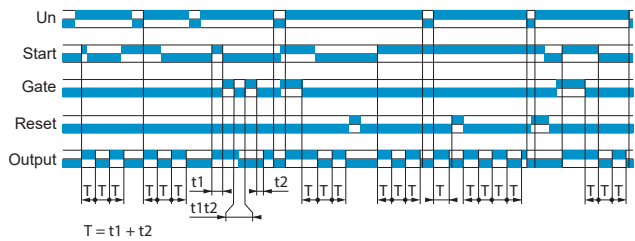
Function B: Interval relay with control signal



Function C: Off-delay relay with control signal

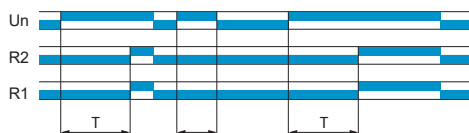


Function Di: Symmetrical flashing relay (starting pulse-on)

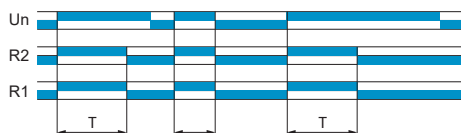


RE48AMH13MW

Functions A1, A2: Delay on energization



Functions H1, H2: Pulse-on energization



Note: If A1 or H1 is selected, only R2 is timed, R1 is instantaneous.

Harmony Timer Relays

Near Field Communication and conventional Timer Relays

Modular timing relays, solid state or relay output, width 17.5 mm/0.689 in.

Solid state output

- Multifunction, dual function, or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- Solid state output: 0.7 A
- Screw and spring terminals



RE17LAMW



RE17LCBMS

Relay output, 1 CO contact

- Dual function or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- 1 relay output: 8 A
- Screw and spring terminals
- State indication by 1 LED
- Option of supplying a load in parallel
- 3-wire sensor control option



RE17RAMU



RE17RMMWS

2 CO contacts

- Multifunction
- Multiple timing ranges
- Multivoltage
- 2 relay outputs: 8 A - 250 V
- Screw terminals
- State indication by LED
- Option of supplying a load in parallel
- 3-wire sensor control option



RENF22R2MMW

Modular timing relays with solid state output

Single function

Timing ranges	Functions	Voltages V	Reference	Weight kg/lb
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A	~ 24...240	RE17LAMW RE17LAMWS	0.060/0.132 0.050/0.110
	H	~ 24...240	RE17LHBM	0.060/0.132
	C	~ 24...240	RE17LCBM RE17LCBMS	0.060/0.132 0.050/0.110

Dual function

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	L, Li	~ 24...240	RE17LLBM RE17LLBMS	0.060/0.132 0.050/0.110
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Multifunction

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, D, Di, Ac, Bw	~ 24...240	RE17LMBM	0.060/0.132
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Modular timing relays with relay output

Single function

Timing ranges	Functions	Voltages V	Reference	Weight kg/lb
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	B	~ 24/~ 24...240	RE17RBMU	0.070/0.154
	C	~ 24/~ 24...240	RE17RCMU RE17RCMUS	0.070/0.154 0.060/0.132

Dual function

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At	~ 24/~ 24...240	RE17RAMU RE17RAMUS	0.070/0.154 0.060/0.132
	H, Ht	~ 24/~ 24...240	RE17RHMU RE17RHMUS	0.070/0.154 0.060/0.132
	L, Li	~ 24/~ 24...240	RE17RLMU RE17RLMUS	0.070/0.154 0.060/0.132
		~ 12	RE17RLJU	0.070/0.154

Multifunction

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, D, Di, Ac, Bw	~ 12	RE17RMJU	0.070/0.154
		~ 24/~ 24...240	RE17RMMU RE17RMMUS	0.070/0.154 0.060/0.132
		~ 12...240	RE17RMMW RE17RMMWS	0.070/0.154 0.060/0.132
	Ad, Ah, N, O, P, Pt, Ti, Tt, W	~ 24/~ 24...240	RE17RMXMU RE17RMXMUS	0.070/0.154 0.060/0.132

1 s, 10 s, 1 min, 10 min, 1 h, 10 h	A, At, B, C, H, Ht, D, Di	~ 24/~ 24...240	RE17RMEMU RE17RMEMUS	0.070/0.154 0.060/0.132
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NFC Timing relays with relay output

Multifunction

Timing ranges	Functions	No. of relay outputs	Voltages V	Reference	Weight kg/lb
0.05 s to 999 h	A, Ac, Ad, Ah, Ak, At, B, Bw, C, D, Di, Dt, Di, H, Ht, L, Li, Lt, Lit, N, O, P, Pt, Qt, Qtt, Ti, Tt, W	2	~ 24...240	RENF22R2MMW	0.0904/0.1993

Note: References ending with "S" are spring terminals; references without "S" are screw terminals.

Example: RE17LAMWS is timing relay with spring terminal and RE17LAMW is timing relay with screw terminal.

Harmony Timer Relays

Near Field Communication and conventional Timer Relays

Modular timing relays with diagnostic button and dial pointer, relay output, width 22.5 mm/0.886 in.

Output 1 CO and 2 CO contacts

- Multifunction, dual function, or single function
- Multiple timing ranges (up to 10 switchable ranges)
- Multivoltage
- 1 or 2 relay outputs
- Screw terminals
- State indication by LED
- Option of supplying a load in parallel
- 3-wire sensor control option
- Diagnostic button (1) and dial pointer LED indicator



RE22R2QTMR



RE22R2KMR



RE22R2QEMR



RE22R2HMR



RE22R1MYMR

Modular timing relays with relay output

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/lb
10 selectable timing ranges 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 30 min, 300 min, 30 h, 300 h	Ac	2	≈ 24...240	RE22R2ACMR	0.105/ 0.231
	Qg	2	≈ 24...240	RE22R2QGMR	0.105/ 0.231
	Qt	2	≈ 24...240	RE22R2QTMR	0.105/ 0.231
7 selectable timing ranges 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 10 min	K	1	≈ 24...240	RE22R1KMR (1) (2)	0.100/ 0.220
		2	≈ 24...240	RE22R2KMR (1) (2)	0.100/ 0.220
7 selectable timing ranges 0.5 s, 1 s, 3 s, 10 s, 30 s, 100 s, 300 s	Qc	1	≈ 24/≈ 24...240	RE22R1QCMU	0.080/ 0.176
Single range selection 30 s	Qe	2	≈ 24...240	RE22R2QEMR	0.090/ 0.198
		2	≈ 380...415	RE22R2QEMT	0.090/ 0.198

Dual function

10 selectable timing ranges 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 30 min, 300 min, 30 h, 300 h	A, Aw	1	≈ 24...240	RE22R1AMR	0.100/ 0.220
		2	≈ 24...240	RE22R2AMR	0.105/ 0.231
	C, Ct	1	≈ 24...240	RE22R1CMR	0.100/ 0.220
		2	≈ 24...240	RE22R2CMR	0.105/ 0.231
	Ac, Act	1	≈ 24...240	RE22R1ACMR	0.100/ 0.220
		2	≈ 24...240	RE22R2ACMR	0.105/ 0.231
	Ak, Akt	1	≈ 24...240	RE22R1AKMR	0.100/ 0.220
		2	≈ 24...240	RE22R2AKMR	0.105/ 0.231
	D, Dw	1	≈ 24...240	RE22R1DMR	0.100/ 0.220
		2	≈ 24...240	RE22R2DMR	0.105/ 0.231
	H, Hw	1	≈ 24...240	RE22R1HMR	0.100/ 0.220
		2	≈ 24...240	RE22R2HMR	0.105/ 0.231
	Wt, W	2	≈ 24...240	RE22R2MWMR	0.105/ 0.231
		2	≈ 24...240	RE22R2MWMR	0.105/ 0.231
7 selectable timing ranges 0.5 s, 1 s, 3 s, 10 s, 30 s, 100 s, 300 s	K, He	1	≈ 24...240	RE22R1MKMR (1) (2)	0.100/ 0.220
10 selectable timing ranges 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 30 min, 300 min, 30 h, 300 h	A, At, Aw	1	≈ 24...240	RE22R1MAMR	0.100/ 0.220
	A, At, Aw, Ac, Act, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, W, Wt	1	≈ 24...240	RE22R1MYMR	0.100/ 0.220
	A, At, Aw, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, Qg, Qgt, Qt, Qtt, W, Wt	2	≈ 24...240	RE22R2MYMR	0.105/ 0.231
		2	≈ 24...240	RE22R2MYMR	0.105/ 0.231
	L, Li, Lt, Lit	1	≈ 24...240	RE22R1MLMR	0.100/ 0.220

(1) The diagnostic button is not available for the K function related references (RE22R1KMR, RE22R2KMR, and RE22R1MKMR).

(2) 1 or 2 relay outputs: 5 A - 250 V.

Harmony Timer Relays

Near Field Communication and conventional Timer Relays
Modular timing relays, relay output,
width 22.5 mm/0.886 in.

Output 1 CO and 2 CO contacts

- Multifunction, dual function, or single function
- Multiple timing ranges (7 switchable ranges)
- Multivoltage
- 1 or 2 relay outputs: 8 A - 250 V
- Screw terminals
- State indication by LED
- Option of supplying a load in parallel
- 3-wire sensor control option



RE22R1QMU



RE22R2AMU



RE22R2MXMU

Modular timing relays with relay output

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/lb
7 selectable timing ranges 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	Q	1	— 24/∼ 24...240	RE22R1QMU	0.090/ 0.198
		1	∼ 230/380	RE22R1QMQU	0.090/ 0.198

Dual function

7 selectable timing ranges 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At	2	— 24/∼ 24...240	RE22R2AMU	0.090/ 0.198
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Multifunction

7 selectable timing ranges 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, Di, D, Ac, Bw	2	— 24/∼ 24...240	RE22R2MMU	0.090/ 0.198
			∼ 12	RE22R2MJU	0.090/ 0.198
			∼ 12...240	RE22R2MMW	0.090/ 0.198
	Ad, Ah, N, O, P, Pt, Tl, Tt, W	2	— 24/∼ 24...240	RE22R2MXMU	0.090/ 0.198

Harmony Timer Relays

Near Field Communication and conventional Timer Relays

Miniature plug-in timing relays, relay output

Output 2 CO and 4 CO contacts

- Miniature and plug-in (21 x 27 mm/0.827 x 1.062 in.)
- Single function: function A = delay on energization
- Rated current ~ 5 A
- 7 timing ranges (0.1 s to 100 h)
- Multivoltage
- Excellent immunity to interference
- Power on and relay energized indication by 2 LEDs



REXL2TM●●



REXL4TM●●



RXZE2M114

Miniature plug-in timing relays with relay output

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/lb
7 switchable ranges 0.1 s...1 s 1 s...10 s 0.1 min...1 min 1 min...10 min 0.1 h...1 h 1 h...10 h 10 h...100 h	A	2	--- 12	REXL2TMJD	0.050/ 0.110
			--- 24	REXL2TMBD	0.050/ 0.110
			~ 24 (50/60 Hz)	REXL2TMB7	0.050/ 0.110
			~ 120 (50/60 Hz)	REXL2TMF7	0.050/ 0.110
			~ 230 (50/60 Hz)	REXL2TMP7	0.050/ 0.110
			4 --- 24 (1)	REXL4TMBD	0.050/ 0.110
			~ 24 (50/60 Hz) (1)	REXL4TMB7	0.050/ 0.110
			~ 120 (50/60 Hz)	REXL4TMF7	0.050/ 0.110
			~ 230 (50/60 Hz)	REXL4TMP7	0.050/ 0.110

Sockets for relays

Contact terminal arrangement	For use with relays	Connection	Unit reference (2)	Weight kg/lb
Mixed (3)	REXL2TM●●, REXL4TM●●	Screw clamp	RXZE2M114 (5)	0.048/ 0.106
	REXL2TM●●, REXL4TM●●	Connector	RXZE2M114M (6)	0.056/ 0.123
Separate (4)	REXL2TM●●	Connector	RXZE2S108M	0.070/ 0.154
	REXL4TM●●	Connector	RXZE2S114M	0.058/ 0.128
	REXL2TM●●, REXL4TM●●	Spring clamp	RXZE2S114S	0.070/ 0.154

(1) For --- 48 V supply, additional resistor 560 Ω 2 W/--- 24 V.
For ~ 48 V, additional resistor 390 Ω 4 W/~ 24 V.

(2) These products are sold in lots of 10.

(3) The inputs are mixed with the relay's power supply terminals, with the outputs being located on the opposite side of the socket.

(4) The inputs and outputs are separated from the relay power supply.

(5) Thermal current I_{th}: 10 A

(6) Thermal current I_{th}: 12 A

Harmony Timer Relays

Near Field Communication and
conventional Timer Relays

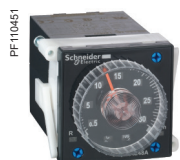
Electronic timing relays, relay output, 48 x 48 mm

Output 2 CO contacts

- Time unit selector knob
- Multifunction, single function, or dual function
- Multirange
- Multivoltage
- 2 relay outputs, 5 A
- Panel-mounted or plug-in
- LED indication



RE48ATM12MW



RE48AMH13MW



RUZC3M



RE48ASOC11AR



RE48ASOC11SOLD



RE48ASETCOV



RE48AIPCOV

Electronic Timing relays with relay output

8-pin relay

Timing ranges	Function	No. of relay outputs	Voltages	Reference	Weight
			V		kg/lb
1.2 s, 3 s, 12 s, 30 s, 120 s, 300 s, 12 min, 30 min, 120 min, 300 min, 12 h, 30 h, 120 h, 300 h	A	2	≈ 24...240	RE48ATM12MW	0.140/ 0.309
	A1, A2, H1, H2	2 of which 1 instantaneous	≈ 24...240	RE48AMH13MW	0.140/ 0.309

11-pin relay

1.2 s, 3 s, 12 s, 30 s, 120 s, 300 s, 12 min, 30 min, 120 min, 300 min, 12 h, 30 h, 120 h, 300 h	L, Li	2	≈ 24...240	RE48ACV12MW	0.140/ 0.309
	A, B, C, Di	2	≈ 24...240	RE48AML12MW	0.140/ 0.309

Sockets

Description	Number of pins	For use with relays	Sold in lots of	Unit reference	Weight kg/lb
IP 20 sockets with connection by connector and mixed contact terminals (1)	8	RE48ATM12MW, RE48AMH13MW	10	RUZC2M	0.054/ 0.119
	11	RE48ACV12MW, RE48AML12MW	10	RUZC3M	0.054/ 0.119
IP 20 socket with screw terminal connections on rear face	11	RE48ACV12MW, RE48AML12MW	1	RE48ASOC11AR	—

Connectors and protective cover

IP 20 solder connectors	11	RE48ACV12MW, RE48AML12MW	1	RE48ASOC11SOLD	—
Setting protection cover	—	RE48ATM12MW, RE48ACV12MW, RE48AML12MW, RE48AMH13MW	1	RE48ASETCOV	—
Protective cover IP 64	—	RE48ATM12MW, RE48ACV12MW, RE48AML12MW, RE48AMH13MW	1	RE48AIPCOV	—

(1) The inputs are mixed with the relay's power supply terminals, with the outputs being located on the opposite side of the socket.