

Zelio Time Timing Relays

Catalog
October 2016



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The screenshot shows a software interface titled "Catalogs EN" version v1.0. The left sidebar lists categories: Pushbuttons, Switches, Pilot Lights & Joysticks; Boxes, Cabling & Interfaces; Signaling Units; HMI (Terminals and Industrial PC); Sensors & RFID System; Motor Protection Relays; Motor Starters; Drives & Soft Starters; Motion; Interface, Measurement & Control Relays; PAC, PLC & other Controllers; and Industrial Communication. The main pane displays a list of products under the "Boxes, Cabling & Interfaces" category, such as Harmony XALD, XALK, XALE, XALG, XAP, XAC, XALF, Modicon ABE7, ABES, TeSys QuickFit, AS-Interface, and AS-Interface Safety at work.

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e-Library, the app for tablets

If you have an iPad®:

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- > or scan the QR code



If you have an Android tablet:

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The screenshot shows the e-Library app interface on an Android device. The left sidebar includes a QR code, a magnifying glass icon, and a star icon. The main content area displays a catalog structure with categories: HMI (terminals and industrial PC), Industrial communication, Interface, Measurement & Control Relays, Motion & Drives, Motor Starters, PAC, PLC & other Controllers, Power supplies & transformers, and Pushbuttons, Switches, Pilot Lights, Control stations & Joysticks. The right pane shows detailed product lists for various models like Harmony XALD, XALK, XALE, XALG, XAP, XAC, XALF, Modicon ABE7, ABES, TeSys QuickFit, AS-Interface, and AS-Interface Safety at work.

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Zelio Time - Timing Relays

Ergonomic and configurable offer with single or multifunction types

Zelio Time are timing relays designed to time events in industrial automation systems by closing and opening contacts before, during, or after a set time period. They are designed for hard-wired logic automated systems to implement the functions of industrial programmable logic controllers (PLCs).

They are suitable for a wide range of applications, including:

- Machines: single machine, and industrial automation processes
- Buildings: lighting control, access control door locks, roller shutters
- Water segment: pumping and irrigation systems
- HVAC: fans and centralized water systems

Depending on the product model, these relays support multiple time ranges.

- > Modular DIN rail mounted timing relays



RE17, RE22

- > Miniature plug-in timing relays



REXL

- > Panel mounted/plug-in timing relay



RE48A

The Zelio Time relays also feature:

- Wide power supply range from 24 to 240 V AC
- Single or multi timing ranges from 0.02 s to 300 hrs
- Relay or solid-state output
- Conformity to IEC 61812-1 and EN 61812-1 standards
- UL, CSA, GL, RCM, EAC, CCC, and China ROHS compliant

Zelio Time → A complete range of reliable and flexible offers

Zelio Time

Simple approach for higher efficiency

- Simple, fast, and easy to set up with accurate adjustments and legible wiring diagrams on the side of the product
- Flexible, high-performance solution with a wide choice of outputs, and screw or spring connection terminals

RE22 modular type relays with unique features

- Innovative : dial pointer LED indicator and diagnostic button to assist setup and troubleshooting
- Compact and reliable
- Energy efficient: simple to implement, operate, and maintain
- Compliance with standards and certifications
- QR code embedded in instruction sheet for easy setup



Zelio Time → Relays to master your time in all simplicity

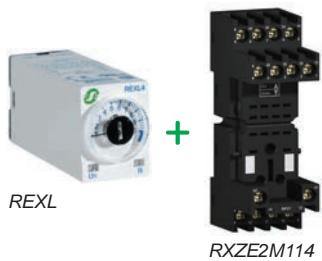
Applications	These timing relays enable simple automation cycles to be set up using wired logic. They can also be used to complement the functions of PLCs.				
Output	Solid state Timing relays with solid state output reduce the amount of wiring required (wired in series). The durability of these timing relays is independent of the number of operating cycles. Relay Relay outputs provide complete isolation between the supply circuit and the output. It is possible to have several output circuits.				
Type	Modular and DIN rail mounted	Modular and DIN rail mounted Miniature and plug-in Analogue and panel-mounted/plug-in			
Time ranges	<input type="checkbox"/> 7 ranges: 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	Depending on model: <input type="checkbox"/> 6 ranges 1 s, 10 s, 1 min, 10 min, 1 h, 10 h <input type="checkbox"/> 7 ranges: 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	Depending on model: <input type="checkbox"/> 7 ranges: 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h <input type="checkbox"/> 7 ranges: 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 10 min <input type="checkbox"/> 7 ranges 0.5 s 1 s 3 s 10 s 30 s 100 s 300 s <input type="checkbox"/> 1 range 30 s <input type="checkbox"/> 10 ranges: 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 30 min, 300 min, 30 h, 300 h	<input type="checkbox"/> 7 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	14 ranges: 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
Timer Relay type	RE17L	RE17R	RE22	REXL	RE48A
Pages	21	21	22	24	25



DIN rail mounted timing relays



Miniature plug-in timing relays with sockets



Panel-mounted/plug-in timing relays



RE48A

Presentation

A timing relay is a component that is designed to time events in industrial automation systems by closing or opening contacts before, during, or after a set timing period.

There are three main families of timing relays:

- DIN rail mounted Modular relay (RE17, RE22) designed for mounting on DIN rails in an enclosure
- Miniature plug-in relay (REXL) designed to be plugged into sockets
- Panel mounted/plug-in relay (RE48A) designed for mounting on the front panel to give users easy access to the settings

These relays have 1, 2, or 4 outputs. For some references from RE22 and RE48 range, the second output can be either timed or instantaneous. If the power is switched off during the timing period, the relay returns to its initial position.

Application examples:

- opening of automatic doors
- alarm
- lighting in toilets
- car park barriers, etc.

Definitions

The following definitions explain relay operation:

■ Relay output:

This is the most common type of output. When the relay is energized, the moving armature is attracted by the coil and so closes the contacts, which change state. When the relay is de-energized, both the armature and the contacts return to their initial position.

This type of output allows complete isolation between the power supply and the output. There are three types of output contacts:

CO: Changeover contact, i.e. when the relay is de-energized, the circuit between the common point C and NC is closed and when the relay is operating (coil energized), it closes the circuit between the common point C and the NO contact.	
NC: A contact that is closed without being activated is called a Normally Closed (NC) contact.	
NO: A contact that closes when activated is called a Normally Open (NO) contact.	

■ Solid state output:

This output is entirely electronic and involves no moving parts; service life is therefore increased.

■ Breaking capacity:

The current value that a contact is capable of breaking in specified conditions.

■ Mechanical durability:

The number of mechanical operating cycles of the contact or contacts.

■ Minimum switching capacity (or minimum breaking capacity):

This is the minimum required current that can flow through the contacts of a relay.

■ X1/X2/Y1/Gate control input:

Control input allows timing in progress to be interrupted without it being reset.

Definitions (continued)**Functions**

Timing functions are identified by letters. For the complementary functions, select the main timing function using the selection dial in the front panel; refer to functional diagrams for connection.

Main timing functions	Complementary functions (1)	Definitions
A (2)		Power on-delay relay
	Ac	On-delay and off-delay relay with control signal
	Act	On-delay and off-delay relay with control signal and pause/summation control signal
	Ad	Pulse delayed relay with control signal
	Ah	Pulse delayed relay (single phase) with control signal
	Ak	Asymmetrical on-delay and off-delay relay with control signal
	Akt	Asymmetrical on-delay and off-delay relay with pause/summation control signal
	At	Power on-delay relay with pause/summation control signal
B (2)		Power on-delay relay with retrigger/restart control signal
	Bw	Single interval relay with control signal
C (2)		Double interval relay with control signal
	Ct	Off-delay relay with control signal
D (2)		Off-delay relay with pause/summation control signal
	Di (2)	Symmetrical flashing relay (starting pulse-off)
	Dit	Symmetrical flashing relay (starting pulse-on)
	Diw	Symmetrical flashing relay (starting pulse-on) with pause/summation control signal
	Dt	Symmetrical flashing relay (starting pulse-off) with pause/summation control signal
	Dw	Symmetrical flashing relay (starting pulse-off) with retrigger/restart control signal
H (2)		Interval relay
	He	Pulse-on de-energization
	Ht	Interval relay with pause/summation control signal
	Hw	Interval relay with retrigger/restart control signal
K		Delay on de-energization (without auxiliary supply)
L (2)		Asymmetrical flashing relay (starting pulse-off)
	Li (2)	Asymmetrical flashing relay (starting pulse-on)
	Lit	Asymmetrical flashing relay (starting pulse-on) with pause/summation control signal
	Lt	Asymmetrical flashing relay (starting pulse-off) with pause/summation control signal
N		Safe-guard relay
O		Delayed Safe-guard relay
P		Pulse delayed relay with fixed pulse length
	Pt	Pulse delayed relay with fixed pulse length and pause/summation control signal
Q		Star-delta relay (2 NO outputs with same common)
	Qc	Star-delta relay (1 CO output)
	Qe	Star-delta relay (1 NC + 1 NO outputs with split common)
	Qg	Star-delta relay (2 CO outputs with same common)
	Qgt	Star-delta relay (2 CO outputs with same common) with pause/summation control signal
	Qt	Star-delta relay (2 CO outputs with split common)
	Qtt	Star-delta relay (2 CO outputs with split common) with pause/summation control signal
T	Tl	Bistable relay with control signal on
	Tt	Retriggerable bistable relay with control signal on
W		Interval relay with control signal off
	Wt	Interval relay with control signal off and pause/summation control signal

(1) Complementary functions enhance the main timing functions.

Example: **Ac**: timing after closing and opening of control contact.

(2) The most commonly used timing functions.

Selection table**Selection criteria**

- **Functions** (on-delay or off-delay, counter, flashing, etc.)
- **Supply voltage** (example: ~12 VDC, 40 V)
- **Timing range** for a timing relay (for example; 0.05 s1.. 00 h)
- **Type of output** (normally open or solid state) and required **Number of contacts**
- **Rated current** or **Breaking capacity** of contacts, expressed in Amperes. This is the maximum current that may flow through the contacts.

Functions	Timing range	Supply voltage	Type of output	Rated current	Relay
A	0.1 s1.. 00 h	... 12 V	2 CO normally open 4 CO normally open	5 A 5 A	REXL2TM0 REXL4TM0
	0.1 s1.. 00 h	... 24 V	2 CO normally open 4 CO normally open	5 A 5 A	REXL2TMBD REXL4TMBD
	0.1 s1.. 00 h	~ 24 V	2 CO normally open 4 CO normally open	5 A 5 A	REXL2TMB7 REXL4TMB7
	0.1 s1.. 00 h	~ 120 V	2 CO normally open 4 CO normally open	5 A 5 A	REXL2TMF7 REXL4TMF7
	0.1 s1.. 00 h	~ 230 V	2 CO normally open 4 CO normally open	5 A 5 A	REXL2TMP7 REXL4TMP7
	0.1 s1.. 00 h 0.02 s3.. 00 h	~ 242.. 40 V	2 CO normally open	0.7 A 5 A	RE17LAMW RE48ATM12MW
A, Ac, At, B, Bw, C, D, Di, H, Ht	0.1 s1.. 00 h	~ 242.. 40 V	1 solid state output	0.7 A	RE17LMBM
	0.1 s1.. 00 h	~ 12 V	1 CO normally open	8 A	RE17RMW
	0.1 s1.. 00 h	~ 122.. 40 V	1 CO normally open	8 A	RE17RMMW RE17RMMWS
	0.1 s1.. 00 h	... 24 V, ~ 242.. 40 V	1 CO normally open	8 A	RE17RMMU
	0.1 s1.. 00 h	... 24/~ 242.. 40 V ~ 12 V ~ 122.. 40 V	2 CO normally open	8 A	RE22R2MMU RE22R2MW RE22R2MMW
	0.1 s1.. 00 h	... 24 V, ~ 242.. 40 V	1 CO normally open	8 A	RE17RAMU
A, At	0.1 s1.. 00 h	... 24 V, ~ 242.. 40 V	1 CO normally open	8 A	RE22R2AMU
	0.1 s1.. 00 h	... 24 V, ~ 242.. 40 V	2 CO normally open	8 A	RE22R1AMR
A, Aw	0.05 s3.. 00 h	~ 242.. 40 V	1 CO normally open 2 CO normally open	8 A	RE22R1AMR RE22R2AMR
A, At, Aw	0.05 s3.. 00 h	~ 242.. 40 V	1 CO normally open	8 A	RE22R1MAMR
A, At, B, C, D, Di, H, Ht	0.1 s1.. 0 h	... 24 V, ~ 242.. 40 V	1 CO normally open	8 A	RE17RMEMU
A, B, C, Di	0.02 s3.. 00 h	~ 242.. 40 V	2 CO normally open	5 A	RE48AML12MW
A, At, Aw, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, Qg, Qgt, Qt, Qtt, W, Wt	0.05 s3.. 00 h	~ 242.. 40 V	2 CO normally open	8 A	RE22R2MYMR
A, At, Aw, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, W, Wt, Ac, Act	0.05 s3.. 00 h	~ 242.. 40 V	1 CO normally open	8 A	RE22R1MYMR

Selection table (continued)

Functions	Timing range	Supply voltage	Type of output	Rated current	Relay
A1, A2, H1, H2	0.02 s3.. 00 h	~ 242.. 40 V	2 CO o ntat s	5 A	RE48AMH13MW
Ac	0.05 s3.. 00 h	~ 242.. 40 V	2 CO o ntat s	8 A	RE22R2ACMR
Ac, Act	0.05 s3.. 00 h	~ 242.. 40 V	1 CO o ntat	8 A	RE22R1ACMR
Ad, Ah, N, O, P, Pt, Tl, Tt, W	0.1 s1.. 00 h 0.1 s1.. 00 h	--- 24 V, ~ 242.. 40 V --- 24 V/~ 242.. 40 V	1 CO o ntat 2 CO o ntat s	8 A 8 A	RE17RMXMU RE22R2MXMU
Ak, Akt	0.05 s...300 h	~ 242.. 40 V	1 CO o ntat	8 A	RE22R1AKMR
B	0.1 s1.. 00 h	--- 24 V, ~ 242.. 40 V	1 CO o ntat	8 A	RE17RBMU
C	0.1 s1.. 00 h 0.1 s1.. 00 h 0.05 s...300 h	~ 242.. 40 V --- 24 V/~ 242.. 40 V ~ 242.. 40 V	1 solid state output 1 CO o ntat 2 CO o ntat s	0.7 A 8 A 8 A	RE17LCBM RE17RCMU RE22R2CMR
C, Ct	0.05 s...300 h	~ 242.. 40 V	1 CO o ntat	8 A	RE22R1CMR
D, Dw	0.05 s...300 h	~ 242.. 40 V	1 CO o ntat 2 CO o ntat s	8 A 8 A	RE22R1DMR RE22R2DMR
H	0.1 s1.. 00 h	~ 242.. 40 V	1 solid state output	0.7 A	RE17LHBM
H, Hw	0.05 s...300 h	~ 242.. 40 V	1 CO o ntat 2 CO o ntat s	8 A 8 A	RE22R1HMR RE22R2HMR
H, Ht	0.1 s1.. 00 h	--- 24 V, ~ 242.. 40 V	1 CO o ntat	8 A	RE17RHMU
K	0.05 s1.. 0 min	~ 242.. 40 V	1 CO o ntat 2 CO o ntat s	5 A 5 A	RE22R1KMR RE22R2KMR
K, He	0.05 s...300 h	~ 242.. 40 V	1 CO o ntat t	5 A	RE22R1MKMR
L, Li	0.1 s1.. 00 h 0.1 s1.. 00 h 0.1 s1.. 00 h 0.02 s3.. 00 h	--- 24 V, ~ 242.. 40 V ~ 242.. 40 V ~ 12 V ~ 242.. 40 V	1 CO o ntat 1 solid state output 1 CO o ntat 2 CO o ntat s	8 A 0.7 A 8 A 5 A	RE17RLMU RE17LLBM RE17RLU RE48ACV12MW
L, Lt, Li, Lit	0.05 s3.. 00 h	~ 242.. 40 V	1 CO o ntat	8 A	RE22R1MLMR
Q	0.1 s1.. 00 h	--- 24 V, ~ 242.. 40 V ~ 2302.. 40 V, ~ 3804.. 40 V	1 CO o ntat 1 CO o ntat	8 A 8 A	RE22R1QMU RE22R1QMQ
Qc	0.05 s3.. 00 s	~ 24 V, ~ 242.. 40 V	1 CO o ntat	8 A	RE22R1QCMU
Qe	0.3 s3.. 0 s	~ 3804.. 15 V	2 CO o ntat s	8 A	RE22R2QEWT
	0.3 s3.. 0 s	~ 242.. 40 V	2 CO o ntat s	8 A	RE22R2QEWR
Qg	0.05 s to 300 h	~ 242.. 40 V	2 CO o ntat s	8 A	RE22R2QGMR
Qt	0.05 s...300 h	~ 242.. 40 V	2 CO o ntat s	8 A	RE22R2QTMR
W, Wt	0.05 s3.. 00 h	~ 242.. 40 V	2 CO o ntat s	8 A	RE22R2MWMR

Functions

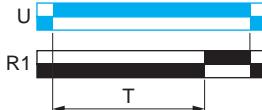
U: Supply
 R: Relay or solid state output
 R1/R2: 2 timed outputs
 R2 inst.: Second output is instantaneous if the output position is selected
 T: Timing period

X1/X2/Y1: Control output(s)
 Ta: Adjustable on-delay
 Tr: Adjustable off-delay

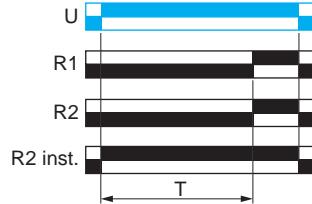
Function diagram:

Function A: Power on-delay relay

1 output



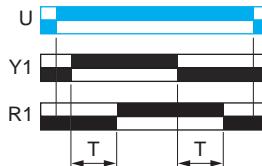
2 outputs



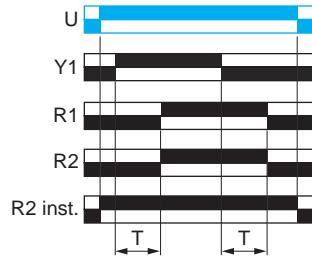
The timing period T begins on power-on.
At the end of this timing period, the output(s) R close(s).
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Ac: On-delay and off-delay relay with control signal

1 output



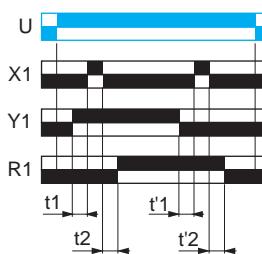
2 outputs



After power-on, and the closure of Y1 the timing period T starts.
At the end of this timing period, the output(s) R close(s).
When Y1 opens, the timing period T starts.
At the end of this timing period 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").

Function Act: On-delay and off-delay relay with control signal and pause/summation control signal

1 output



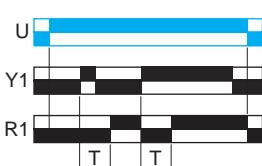
$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

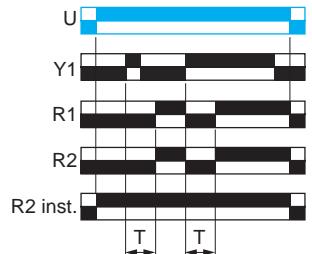
After power-on and the closure of Y1 the timing period T starts and it can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R close(s).
When Y1 opens, the timing T starts and it can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R open(s).

Function Ad: Pulse delayed relay with control signal

1 output



2 outputs

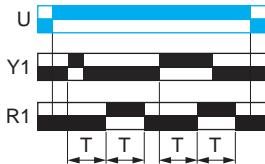


After power-on, pulsing or maintaining Y1 starts the timing T.
At the end of this timing period T, the output(s) R close(s).
R remains closed until the next pulsing or maintaining Y1 to start the next pulse.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

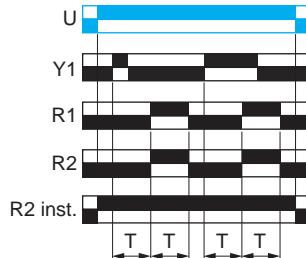
Functions (continued)

Function Ah: Pulse delayed relay (single cycle) with control signal

1 output



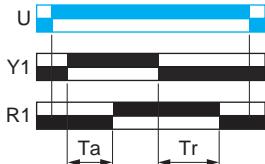
2 outputs



After power-on, pulsing or maintaining Y1 starts the timing T. A single pulse then starts with 2 timing periods T of equal duration (start with output(s) open(s)). The output(s) R1 closes(s) state at the end of the first timing period T and open(s) at the end of the second timing period T. Y1 should be reset in order to re-start the single flashing cycle. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Ak: Asymmetrical on-delay and off-delay relay with control signal

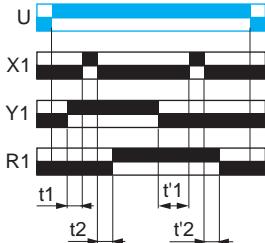
1 output



After power-on and the closure of Y1, timing starts for a period Ta. At the end of this timing period Ta, the output R1 closes. A second timing period Tr starts when Y1 re-opens. At the end of this timing period Tr, the output R1 opens(s).

Function Akt: Asymmetrical on-delay and off-delay relay with control signal and pause/summation control signal

1 output



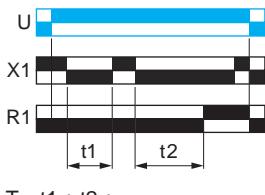
$$Ta = t_1 + t_2 + \dots$$

$$Tr = t'_1 + t'_2 + \dots$$

After power-on and the closure of Y1, timing starts for a period Ta and can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value Ta, the output R1 closes. A second timing period Tr starts when Y1 re-opens and can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value Tr, the output R1 opens(s).

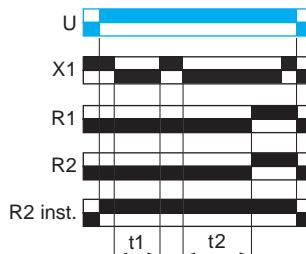
Function At: Power on-delay relay with pause/summation control signal

1 output



$$T = t_1 + t_2 + \dots$$

2 outputs



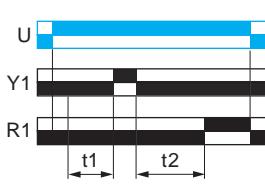
$$T = t_1 + t_2 + \dots$$

After power-on, the timing period T starts. Timing can be interrupted/paused each time X1 closes.

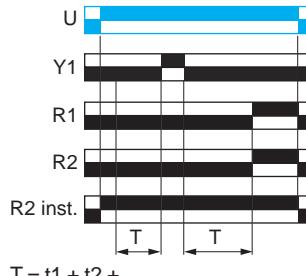
Note: Except for RE17, RE22R2AMU, RE22R2MMW, RE22R2MMU, and RE22R2MW, timing can be interrupted/paused each time Y1 closes.

When the cumulative total time elapsed reaches the preset value T, the output(s) R1 close(s).

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



$$T = t_1 + t_2 + \dots$$

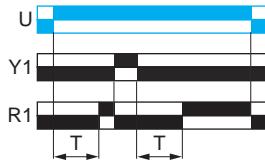


$$T = t_1 + t_2 + \dots$$

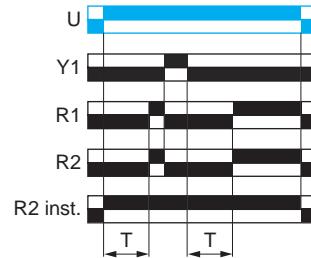
Functions (continued)

Function Aw: Power on-delay relay with retrigger/restart control signal

1 output



2 outputs



The timing period T starts on power-on. At the end of the timing period T, the output(s) R close(s).

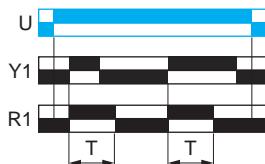
Closing of the Y1 makes the output(s) R open. Opening of Y1 restarts timing period T.

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

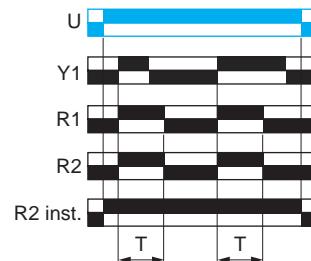
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function B: Single interval relay with control signal

1 output



2 outputs



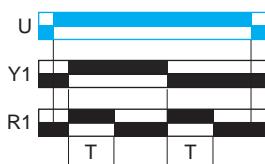
After power-on, pulsing or maintaining Y1 starts the timing T.

The output(s) R close(s) for the duration of the timing period T and then open(s).

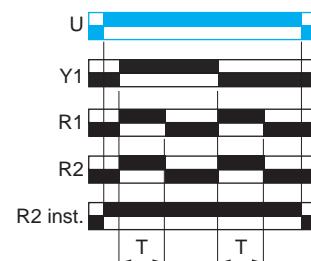
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Bw: Double interval relay with control signal

1 output



2 outputs

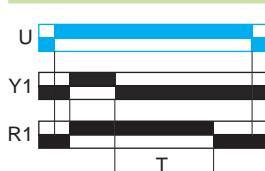


After power-on, transition of Y1 (either from open to closed or vice versa) will cause the output(s) R to close(s) for the duration of the timing period T and then open(s).

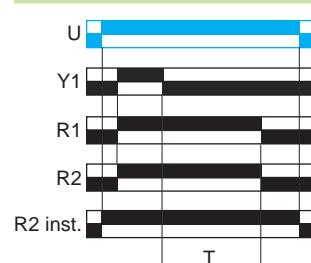
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function C: Off-delay relay with control signal

1 output



2 outputs



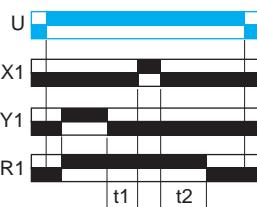
After power-on and closure of the Y1, the output(s) R close(s).

When Y1 re-opens, timing T starts.

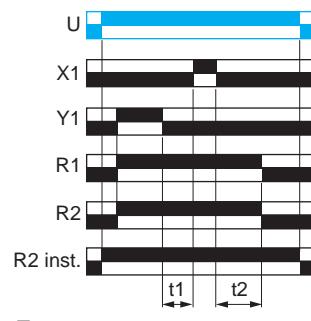
At the end of the timing period, output(s) R open(s).

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

Function Ct : Off-delay relay with control signal and pause/summation control signal



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



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

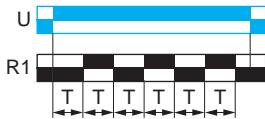
When Y1 re-opens, timing starts and can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R open(s).

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

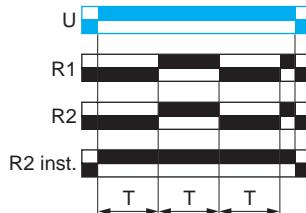
Functions (continued)

Function D: Symmetrical flashing relay (starting pulse-off)

1 output

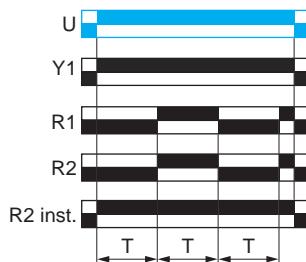
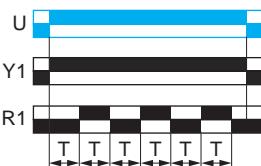


2 outputs



Repetitive pulse with 2 timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

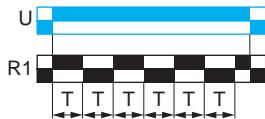
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").



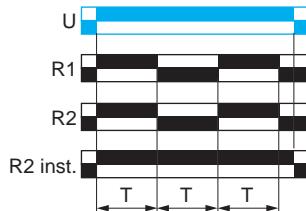
Note: Function D with Y1 is only for the RE17 range and RE22R2MW, RE22R2MMU, and RE22R2MMW references.

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

1 output



2 outputs

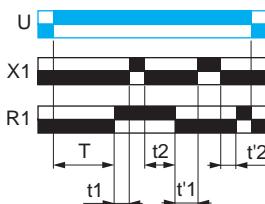


Repetitive pulse with 2 timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

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

Function Dt : Symmetrical flashing relay (starting pulse-off) with pause/summation control signal

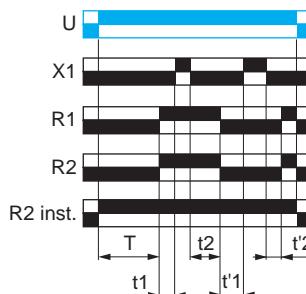
1 output



$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

2 outputs



$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

After power-on, output(s) R start(s) with open state for timing period T and the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R close(s).

The output(s) R will remain in the closed state for the same timing period T and the 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).

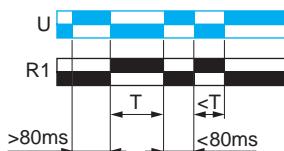
This cycle is repeated indefinitely until the power supply is removed.

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

Functions (continued)

Function He: Pulse-on de-energization

1 output

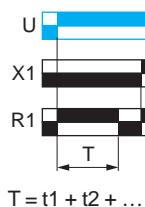


After power-on > 80 ms followed by power-off, the output R closes for the duration of a timing period T and then opens(s).

After power-on < 80 ms followed by power-off, the output R closes and opens before the end of the timing period T as it will not be able to sustain this state for the timing period T.

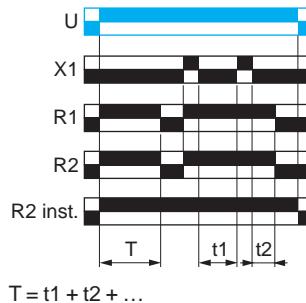
Function Ht: Interval relay with pause/summation control signal

1 output



$$T = t_1 + t_2 + \dots$$

2 outputs



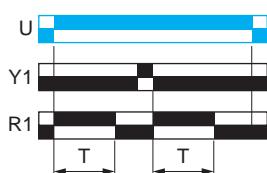
After power-on, output(s) R close(s) and timing period T starts, the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R open(s).

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

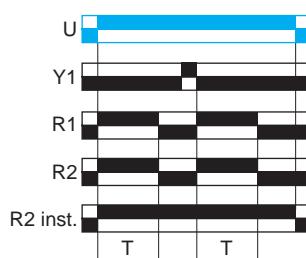
Note: For RE17●, RE22R2MMW, RE22R2MMU, and RE22R2MW, timing can be interrupted/paused each time Y1 closes.

Function Hw : Interval relay with retrigger/restart control signal

1 output



2 outputs

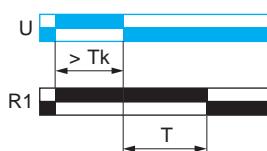


After power-on, output(s) R close(s) and timing period T starts. At the end of the timing period T, the output(s) R open(s). At any state of the output(s) R when Y1 closes and then re-opens, the output(s) R close(s) and restart(s) the same operation as described at the beginning.

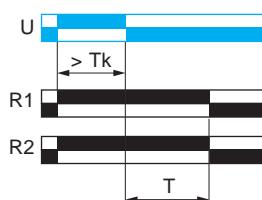
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function K: Delay on de-energization (without auxiliary supply)

1 output



2 outputs



After power-on, the output(s) R close(s). After power-off, timing period T starts and, at the end of this period, the output(s) R open(s).

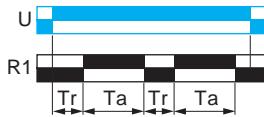
The power-on > Tk is necessary to sustain the timing period T.

There are 3 references with different Tk as follows:

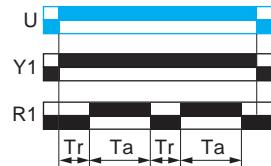
- (a) RE22R1KMR --> Tk = 1 s
- (b) RE22R2KMR --> Tk = 1 s
- (c) RE22R1MKMR --> Tk = 80 ms

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

1 output



1 output



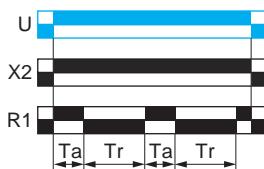
Repetitive cycle consisting of 2, independently adjustable timing periods Ta and Tr.

Each timing period corresponds to a different state of the output R.

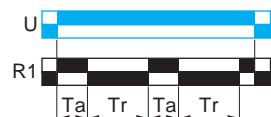
Note: Function L with Y1 is only for the RE17 range.

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

1 output



1 output

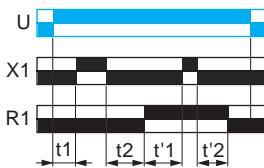


Repetitive cycle consisting of 2, independently adjustable timing periods Ta and Tr.

Each timing period corresponds to a different state of the output R.

Function Lt: Asymmetrical flashing relay (starting pulse-off) with pause/summation control signal

1 output



Repetitive cycle consists of 2, independently adjustable timing periods Ta and Tr.

Each timing period corresponds to a different state of the output R.

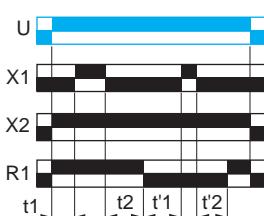
Control contact X1 can be operated to partially stop timing periods Ta and Tr.

$$Tr = t_1 + t_2 + \dots$$

$$Ta = t'_1 + t'_2 + \dots$$

Function Lit: Asymmetrical flashing relay (starting pulse-on) with pause/summation control signal

1 output



After power-on, output(s) R close(s) for timing duration Ta and the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value Ta, the output(s) R open(s).

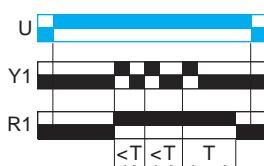
The output(s) R will remain open for timing duration Tr, the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value Tr, then output(s) R close(s). This cycle is repeated indefinitely until the power supply is removed.

$$Ta = t_1 + t_2 + \dots$$

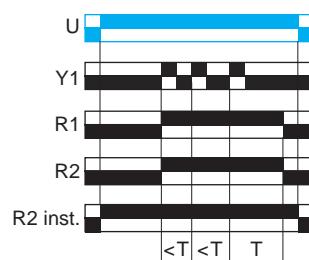
$$Tr = t'_1 + t'_2 + \dots$$

Function N: Safe-guard relay

1 output



2 outputs



After power-on and at the beginning of the control pulse Y1, the output(s) R close(s).

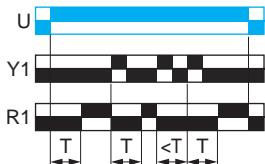
If the interval between two Y1 control pulses is greater than the set timing period T, timing elapses normally and the output(s) R open(s) at the end of the timing period T. If the interval is less than the set timing period, the output(s) R remain(s) closed until this condition is met.

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

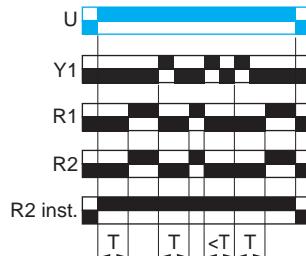
Functions (continued)

Function O: Delayed Safe-guard relay

1 output



2 outputs



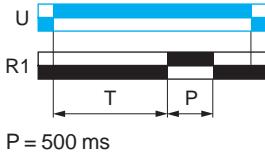
An initial timing period T begins on power-on. At the end of this timing period, the output(s) R close(s).

At the beginning of the control pulse Y_1 , the output(s) R opens(s) and remain(s) in that state if the interval between two control pulses is less than the value of the set timing period T . Otherwise, the output(s) R close(s) at the end of the timing period T .

The second output (R_2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

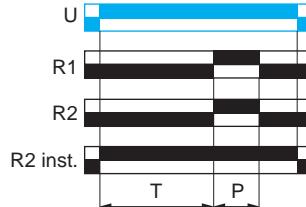
Function P: Pulse delayed relay with fixed pulse length

1 output



$P = 500 \text{ ms}$

2 outputs

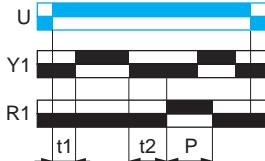


The timing period T starts on power-on. At the end of this period, the output(s) R close(s) for a fixed time P and then open(s).

The second output (R_2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Pt: Pulse delayed relay with fixed pulse length and pause/summation control signal

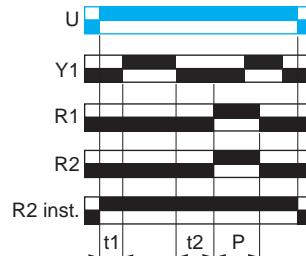
1 output



$T = t_1 + t_2 + \dots$

$P = 500 \text{ ms}$

2 outputs

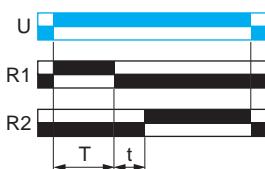


After power-on, timing period T starts (it can be interrupted by operating Y_1).

When the cumulative total time elapsed reaches the preset value T , the output(s) R close(s) for a fixed time P then open(s). The second output (R_2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Q: Star-delta relay (2 NO outputs with same common)

2 outputs

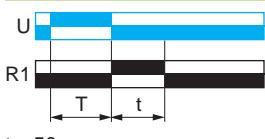


$t = 20, 40, 60, 80, 100, 120, 140 \text{ ms selectable}$

After power-on, the output R_1 closes such that it closes the star contact or and the main contact or and the timing T starts (star contact timing period starts). At the end of the timing period T , the output R_1 opens such that it opens the star contact or and starts transition time t . At the end of the transition time, the output R_2 closes such that it closes the delta contact or.

Function Qc: Star-delta relay (1 CO output)

1 output

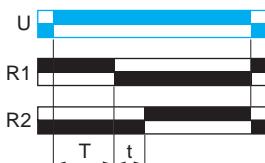


$t = 50 \text{ ms}$

After power-on, the output R initializes at its initial state to close the star contact or and the main contact or and the timing T starts (star contact timing period starts). At the end of the timing period T , output R closes such that it opens the star contact or and starts transition time t . At the end of the transition time, output R returns to its initial state such that it closes the delta contact or.

Function Qe: Star-delta relay (1 NC + 1 NO outputs with split common)

2 outputs



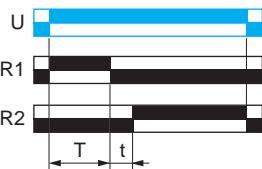
$t = 20, 40, 60, 80, 100, 120, 140 \text{ ms selectable}$

After power-on, the output R_1 is at its initial state such that it closes the star contact or and the main contact or and the timing T starts (star contact timing period starts). At the end of the timing period T , output R_1 opens such that it opens the star contact or and starts transition time t . At the end of the transition time, output R_2 closes such that it closes the delta contact or.

Functions (continued)

Function Qg: Star-delta relay (2 CO outputs with same common)

2 outputs



$t = 50 \text{ ms (RE22R2MYMR)}$

$t = 20, 40, 60, 80, 100, 120, 140 \text{ ms selectable}$
(RE22R2QGMR)

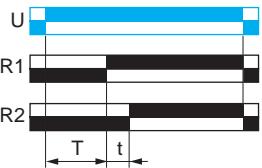
After power-on, output R1 closes the star contact or and the main contact or, and the timing T starts (star on net ion time period starts).

At the end of the timing period T, output R1 reverts to its initial state sub that it opens the star contact or and starts transition time t.

At the end of the transition time, output R2 closes sub that it closes the delta contact or.

Function Qt: Star-delta relay (2 CO outputs with split common)

2 outputs



$t = 50 \text{ ms (RE22R2MYMR)}$

$t = 20, 40, 60, 80, 100, 120, 140 \text{ ms selectable}$
(RE22R2QTMR)

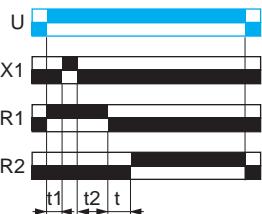
After power-on, the outputs R1 and R2 initialize at its/their initial state sub that they close the star contact or and the main contact or and the timing T starts (Star on net ion time duration starts).

At the end of the timing period T, the output R1 closes sub that it opens the star contact or and starts transition time t.

At the end of the transition time, the output R2 closes sub that it closes the delta contact or.

Function Qgt : Star-delta relay (2 CO outputs with same common) with pause/summation control signal

2 outputs



$T = t_1 + t_2 + \dots$

$t = 50 \text{ ms}$

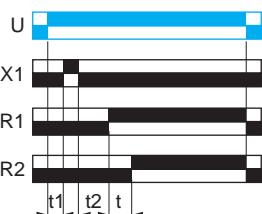
After power-on, output R1 closes the star contact or and the main contact or, and the timing T starts (star on net ion time period starts).

During star on net ion time, the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, output R1 reverts to its initial state sub that it opens the star contact or and starts transition time t.

At the end of the transition time, output R2 closes sub that it closes the delta contact or.

Function Qtt : Star-delta relay (2 CO outputs with split common) with pause/summation control signal

2 outputs



$T = t_1 + t_2 + \dots$

$t = 50 \text{ ms}$

After power-on, the outputs R1 and R2 initialize at its/their initial state sub that they close the star contact or and the main contact or and the timing T starts (star on net timing period starts).

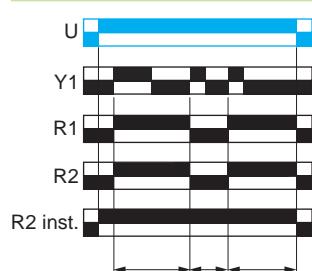
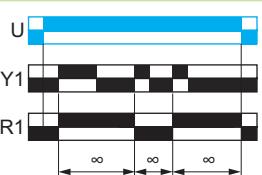
During star on net ion time, the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, output R1 closes sub that it opens the star contact or and starts transition time t.

At the end of the transition time, output R2 closes sub that it closes the delta contact or.

Function TI: Bistable relay with control signal on

1 output

2 outputs

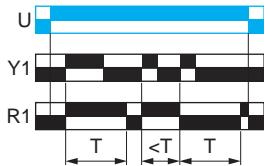


After power-on and closure of Y1, the output(s) R close(s). The subsequent closure of Y1 also uses the output(s) R toggle(s) from its/their present state. This cycle is repeated indefinitely until the power supply is removed.

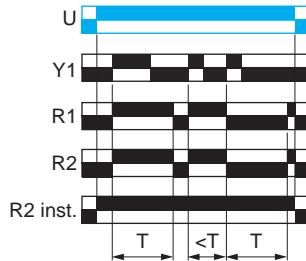
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

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.

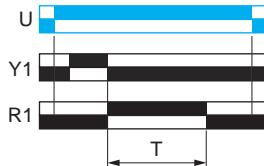
If the interval between 2 closures of Y1 is greater than the preset value T, the output(s) R will toggle from its/their present state at the end of the timing period.

If the interval between 2 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.

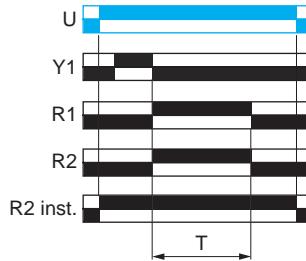
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function W: Interval relay with control signal off

1 output



2 outputs



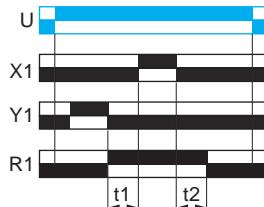
After power-on and at the end of control pulse Y1, the output(s) R close(s) for a timing period T.

At the end of this timing period the output(s) open(s).

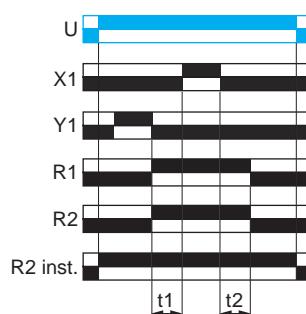
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

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

1 output



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").

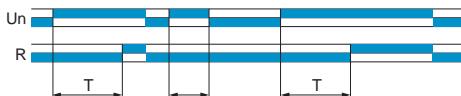
Functions (continued)

Zelio Time - Timing Relays

Electromagnetic relay, relay output, 48 x 48 mm

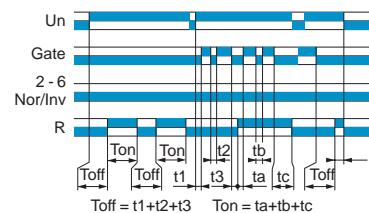
RE48ATM12MW

Function A: Power on-delay relay

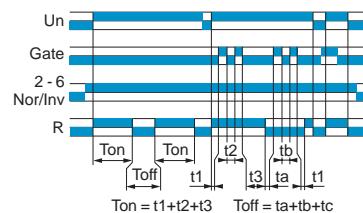


RE48ACV12MW

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

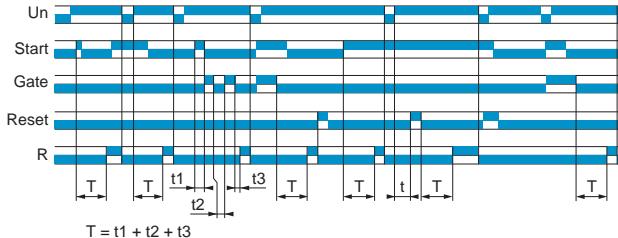


Function Li: Asymmetrical flashing relay (starting pulse-on)

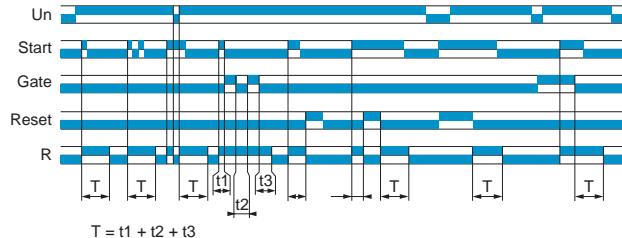


RE48AML12MW

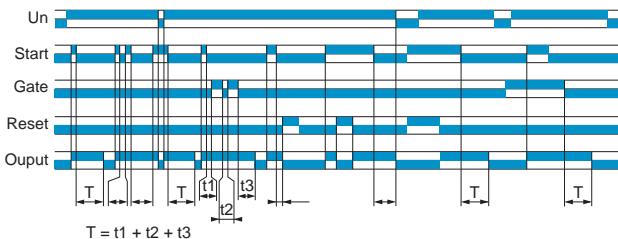
Function A: Power on-delay relay



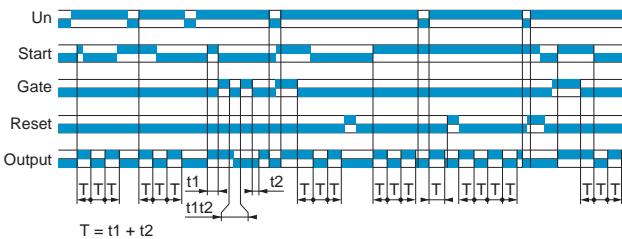
Function B: Interval relay with control signal



Function C: Off-delay relay with control signal

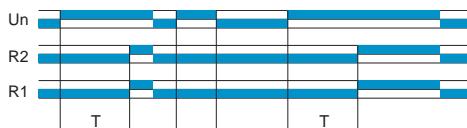


Function Di: Symmetrical flashing relay (starting pulse-on)

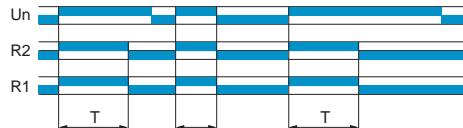


RE48AMH13MW

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.

Zelio Time - Timing Relays

Modular relay with 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 terminals



RE17LAMW



RE17LLBM

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

Modular relays with solid state output 0.7 A

Single function

Timing ranges	Functions	Voltages V	Reference	Weight kg/lb
7 selectable timing ranges 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A	~ 242.. 40	RE17LAMW	0.060/ 0.132
	H	~ 242.. 40	RE17LHBM	0.060/ 0.132
	C	~ 242.. 40	RE17LCBM	0.060/ 0.132

Dual function

7 selectable timing ranges	L, Li	~ 242.. 40	RE17LLBM	0.060/ 0.132
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h				

Multifunction

7 selectable timing ranges	A, At, B, C, H, ~ 242.. 40 Ht, D, Di, Ac, Bw	RE17LMBM	0.060/ 0.132
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h			

Modular relays with relay output, 1 CO contact

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/~/ 242.. 40	RE17RBMU	0.070/ 0.154
	C	--- 24/~/ 242.. 40	RE17RCMU	0.070/ 0.154

Dual function

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At	--- 24/~/ 242.. 40	RE17RAMU	0.070/ 0.154
	H, Ht	--- 24/~/ 242.. 40	RE17RHMU	0.070/ 0.154
	L, Li	--- 24/~/ 242.. 40	RE17RLMU	0.070/ 0.154
		~ 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/~/ 242.. 40	RE17RMMU	0.070/ 0.154
		~ 122.. 40	RE17RMMW	0.070/ 0.154
			RE17RMMWS (1)	0.070/ 0.154

Ad, Ah, N, O, P, Pt, Ti, Tt, W	--- 24/~/ 242.. 40	RE17RMXMU	0.070/ 0.154
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1 s, 10 s, 1 min, 10 min, 1 h, 10 h	A, At, B, C, H, Ht, D, Di	--- 24/~/ 242.. 40	RE17RMEMU	0.070/ 0.154
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(1) Connection by spring terminals.

References

Zelio Time - Timing Relays

Modular single, dual, or multifunction relay 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

References

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, 3 min, 300 min, 30 h, 300 h	Ac	2	≈ 242.. 40	RE22R2ACMR	0.105/ 0.231
	Qg	2	≈ 242.. 40	RE22R2QGMR	0.105/ 0.231
	Qt	2	≈ 242.. 40	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	≈ 242.. 40	RE22R1KMR (1) (2)	0.100/ 0.220
		2	≈ 242.. 40	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/≈ 242.. 40	RE22R1QCMU	0.080/ 0.176
Single range selection 30 s	Qe	2	≈ 242.. 40	RE22R2QEWR	0.090/ 0.198
		2	≈ 3804.. 15	RE22R2QEWT	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	≈ 242.. 40	RE22R1AMR	0.100/ 0.220
		2	≈ 242.. 40	RE22R2AMR	0.105/ 0.231
	C, Ct	1	≈ 242.. 40	RE22R1CMR	0.100/ 0.220
	C	2	≈ 242.. 40	RE22R2CMR	0.105/ 0.231
	Ac, Act	1	≈ 242.. 40	RE22R1ACMR	0.100/ 0.220
	Ak, Akt	1	≈ 242.. 40	RE22R1AKMR	0.100/ 0.220
	D, Dw	1	≈ 242.. 40	RE22R1DMR	0.100/ 0.220
		2	≈ 242.. 40	RE22R2DMR	0.105/ 0.231
	H, Hw	1	≈ 242.. 40	RE22R1HMR	0.100/ 0.220
		2	≈ 242.. 40	RE22R2HMR	0.105/ 0.231
	Wt, W	2	≈ 242.. 40	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	≈ 242.. 40	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	≈ 242.. 40	RE22R1MAMR	0.100/ 0.220
	A, At, Aw, Ac, Act, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, W, Wt,	1	≈ 242.. 40	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	≈ 242.. 40	RE22R2MYMR	0.105/ 0.231
	L, Li, Lt, Lit	1	≈ 242.. 40	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

References

Zelio Time - Timing Relays

Modular single, dual, or multifunction 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 or spring terminals
- State indication by LED
- Option of supplying a load in parallel
- 3-wire sensor control option



RE22R1QMU



RE22R2AMU



RE22R2MMW

References

Multifunction

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/~/242. 40	RE22R1QMU	0.090/ 0.198
		1	~ 230/380	RE22R1QM Q	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/~/242. 40	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/~/242. 40	RE22R2MMU (1)	0.090/ 0.198
		~ 12	~ 122. 40	RE22R2MJU (1)	0.090/ 0.198

Ad, Ah, N, O,P, Pt, Tl, Tt, W	2	— 24/~/242. 40	RE22R2MXMU (1)	0.090/ 0.198
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(1) Connection by screw terminals.

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••

PF56218



REXL4TM••

PF56219



RXZE2M114

PF10614

References**Single function**

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight 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 --- 24	REXL2TMJD REXL2TMBD	0.050/ 0.110 0.050/ 0.110
			~ 24 (50/60 Hz)	REXL2TMB7	0.050/ 0.110
			~ 120 (50/60 Hz)	REXL2TMF7	0.050/ 0.110
		4	~ 230 (50/60 Hz)	REXL2TMP7	0.050/ 0.110
			--- 12 --- 24 (1)	REXL4TMJD REXL4TMBD REXL4TMB7	0.050/ 0.110 0.050/ 0.110
			~ 24 (50/60 Hz) (1)	REXL4TMF7	0.050/ 0.110
			~ 120 (50/60 Hz)	REXL4TMP7	0.050/ 0.110
			~ 230 (50/60 Hz)		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••	Sc ew b amp	RXZE2M114 (5)	0.048/ 0.106
	REXL2TM••, REXL4TM••	Connet or	RXZE2M114M (6)	0.056/ 0.123
Separate (4)	REXL2TM••	Connet or	RXZE2S108M	0.070/ 0.154
	REXL4TM••	Connet or	RXZE2S114M	0.058/ 0.128
	REXL2TM•• REXL4TM••	Spring b amp	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 Ith: 10 A.

(6) Thermal current Ith: 12 A.

Zelio Time - Timing Relays

Analog, electronic relay,
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



RE48ASOC8SOLD



RE48ASOC11SOLD



RE48ASETCOV



RE48AIPCOV

References

8-pin relay

Timing ranges	Function	No. of relay outputs	Voltages	Reference	Weight
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	1	≈ 242..40	RE48ATM12MW	0.140/ 0.309
	A1, A2, H1, H2	2 of which 1 instantaneous	≈ 242..40	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	≈ 242..40	RE48ACV12MW	0.140/ 0.309
	A, B, C, Di	2	≈ 242..40	RE48AML12MW	0.140/ 0.309

Sockets

Description	Number of pins	For use with relays	Sold in Unit lots of 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	—
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Connectors and protective cover

IP 20 solder connectors	8	RE48ATM12MW, RE48AMH13MW	1 RE48ASOC8SOLD	—
	11	RE48ACV12MW, RE48AML12MW	1 RE48ASOC11SOLD	—

Setting protection cover	—	RE48ATM12MW, RE48ACV12MW, RE48AML12MW, RE48AMH13MW	1 RE48ASETCOV	—
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Protective cover IP 64	—	RE48ATM12MW, RE48ACV12MW, RE48AML12MW, RE48AMH13MW	1 RE48AIPCOV	—
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(1) The inputs are mixed with the relay's power supply terminals, with the outputs being located on the opposite side of the socket.

R	
RE17LAMW	21
RE17LCBM	21
RE17LHBM	21
RE17LLBM	21
RE17LMBM	21
RE17RAMU	21
RE17RBMU	21
RE17RCMU	21
RE17RHMU	21
RE17RLJU	21
RE17RLMU	21
RE17RMEMU	21
RE17RMJU	21
RE17RMMU	21
RE17RMMW	21
RE17RMMWS	21
RE17RMXMU	21
RE22R1ACMR	22
RE22R1AKMR	22
RE22R1AMR	22
RE22R1CMR	22
RE22R1DMR	22
RE22R1HMR	22
RE22R1KMR	22
RE22R1MAMR	22
RE22R1MKMR	22
RE22R1MLMR	22
RE22R1MYMR	22
RE22R1QCMU	22
RE22R1QMQ	23
RE22R1QMU	23
RE22R2ACMR	22
RE22R2AMR	22
RE22R2AMU	23
RE22R2CMR	22
RE22R2DMR	22
RE22R2HMR	22
RE22R2KMR	22
RE22R2MJU	23
RE22R2MMU	23
RE22R2MMW	23
RE22R2MWMR	22
RE22R2MXMU	23
RE22R2MYMR	22
RE22R2QEMR	22
RE22R2QEMT	22
RE22R2QGMR	22
RE22R2QTMR	22
RE48ACV12MW	25
RE48AIPCOV	25
RE48AMH13MW	25
RE48AML12MW	25
RE48ASETCOV	25
RE48ASOC8SOLD	25
RE48ASOC11AR	25
RE48ASOC11SOLD	25
RE48ATM12MW	25
REXL2TMB7	24
REXL2TMBD	24
REXL2TMF7	24
REXL2TMJD	24
REXL2TMP7	24

Relays



www.schneider-electric.com/relays

Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier
F-92500 Rueil-Malmaison
France

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