Zelio Time
Timing relays

Catalog

January 2013

Schneider Electric

Content

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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	Industrial	Modular	Industrial
Time ranges	□ *7 ranges:* 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	□ *1 or 2 ranges depending on model:* 10 s, 30 s, 300 s, 60 min	Depending on model: □ *6 ranges* 1 s, 10 s, 1 min, 10 min, 1 h, 10 h □ *7 ranges:* 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	Depending on model: □ *4 ranges:* 0.6 s, 2.5 s, 20 s, 160 s □ *7 ranges:* 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h □ *7 ranges:* 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 10 min □ *10 ranges:* 1 s, 3 s, 10 s, 30 s, 100 s, 300 s, 30 min, 300 min, 30 h, 300 h
Relay type	**RE17L●●●**	**RE9**	**RE17R●●●**	**RE88865●●●** **RE7**
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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.

Relay
Relay outputs provide complete isolation between the supply circuit and the output.
It is possible to have several output circuits.

Industrial	Plug-in		Panel mounted	
	Universal	Miniature	Analogue	Digital
□ *1 range depending on model:* *0.5 s,* *3 s,* *10 s,* *30 s,* *300 s,* *30 min*	□ *7 ranges:* 1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	□ *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	Depending on model: □ *7 ranges:* 99.99 s, 999.99 s, 99 min 59 s, 99.99 min, 999.9 min, 99 h 59 min, 999.9 h □ *11 ranges:* 99.99 s, 999.99 s, 9999 s, 99 min 59 s, 99.99 min, 999.9 min, 9999 min, 99 h 59 min, 99.99 h, 999.9 h, 9999 h
RE8	**RE88867●●●**	**REXL●TM●●**	**RE48A●●●**	**RE88857●●●**
20	21 and 22	23	24	25

Zelio Time - timing relays

DIN rail mounted relays

RE17

RE7, RE8, RE9

REXL

Panel mounted relays

RE48A

Presentation

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

There are two main 'families' of timing relays:
■ "DIN rail mounted" relays (**RE7**, **RE8**, **RE9**, **RE17**, **REXL**…) designed for mounting on DIN rails in an enclosure,

■ "Panel mounted" relays type **RE48A** designed for mounting on the front of a panel to give users easy access to the settings.

These relays have one, two or four outputs. Sometimes the second output can be either timed or instantaneous.
If the power is switched off during the timing period, the relay reverts to its initial position.

Application examples:
■ opening of automatic doors,
■ alarm,
■ lighting in toilets,
■ car park barriers ...

Definitions

The following definitions will assist in understanding the operation of these relays:

■ **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 actuates the contacts, which change state. When the relay is de-energized, both the armature and the contacts revert to their initial position.
This type of output allows complete isolation between the supply and the output.
There are three types of output:

C/O: changeover contact, i.e. when the relay is de-energized, the circuit between the common point C and N/C is closed and when the relay is operating (coil energized), it closes the circuit between the common point C and N/O.	
N/C: a contact that is closed without being actuated is called a **Normally Closed (N/C)** contact.	
N/O: a contact that closes when actuated is called a **Normally Open (N/O)** contact.	

■ **Solid state output:**
These outputs are entirely electronic and involve 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):
corresponds to the minimum required current which can flow through the contacts of a relay.

■ **G (Gate) Input:**
Gate input allows timing in progress to be interrupted without resetting it.

Definitions (continued)

Functions

Timing functions are identified by letters.

Main timing functions	Complementary functions *(1)*	Definitions
A *(2)*		Power on delay relay
	Ac	On-delay and off-delay relay with control signal
	Ad	Pulse delayed relay with control signal
	Ah	Pulse delayed relay (single cycle) with control signal
	Ak	Asymmetrical On-delay and Off-delay with external control
	At	Power on delay relay (summation) with control signal
	Aw	Off-delay on energization or on opening of control contact
B *(2)*		Interval relay with control signal
	Bw	Double interval relay with control signal
C *(2)*		Off-delay relay with control signal
D *(2)*		Symmetrical flasher relay (starting pulse off)
	Di *(2)*	Symmetrical flasher relay (starting pulse on)
H *(2)*		Interval relay
	He	Pulse-on de-energization
	Ht	Interval relay (summation) with control signal
K		Delay on de-energization (without auxiliary supply)
L *(2)*		Asymmetrical flasher relay (starting pulse off)
	Li *(2)*	Asymmetrical flasher relay (starting pulse on)
	Lt	Asymmetrical flashing with partial stop of timing
N		Retriggerable interval relay with control signal on
O		Retriggerable interval delayed relay with control signal on
P		Pulse delayed relay with fixed pulse length
	Pt	Pulse delayed relay (summation and fixed pulse length) with control signal off
	Qc	Star-delta timing
	Qe	Star-delta timing
	Qg	Star-delta timing
	Qt	Star-delta timing
T		Bistable relay with control signal on
	Tt	Retriggerable bistable relay with control signal on
W		Interval relay with control signal off

(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.

Zelio Time - timing relays

Selection table

Selection criteria

- **Functions** (On-delay or Off-delay, counter, flashing…)
- **Supply voltage** (example: ∿/⎓ 12 V…240 V).
- **Timing range** for a timing relay (example: 0.05 s…100 h)
- **Type of output** (contact or solid state) and required **Number of contacts**.
- **Breaking capacity** or **Rated current** of contacts, expressed in Amperes.

This is the maximum current which may flow through the contacts.

Functions	Timing range	Supply voltage	Type of output	Rated current	Relay
A	0.1 s…100 h	⎓ 12 V	2 C/O contacts	5 A	REXL2TMJD
			4 C/O contacts	3 A	REXL4TMJD
	0.1 s…100 h	⎓ 24 V	2 C/O contacts	5 A	REXL2TMBD
			4 C/O contacts	3 A	REXL4TMBD
	0.1 s…100 h	∿ 24 V	2 C/O contacts	5 A	REXL2TMB7
			4 C/O contacts	3 A	REXL4TMB7
	0.1 s…100 h	∿ 120 V	2 C/O contacts	5 A	REXL2TMF7
			4 C/O contacts	3 A	REXL4TMF7
	0.1 s…100 h	∿ 230 V	2 C/O contacts	5 A	REXL2TMP7
			4 C/O contacts	3 A	REXL4TMP7
	0.1 s…10 s	∿/⎓ 24…240 V	1 solid state output	0.7 A	RE9TA11MW
	0.3 s…30 s			0.7 A	RE9TA31MW
	3 s…300 s			0.7 A	RE9TA21MW
	40 s…60 min			0.7 A	RE9TA51MW
	1 s…100 h			0.7 A	RE17LAMW
	0.02 s…300 h		2 timed C/O contacts	5 A	RE48ATM12MW
	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V	1 C/O contact	8 A	RE7TL11BU
	0.1 s…3 s			8 A	RE8TA61BUTQ
	0.1s…10 s			8 A	RE8TA11BUTQ
	0.3 s…30 s			8 A	RE8TA31BUTQ
	3 s…300 s			8 A	RE8TA21BUTQ
	20…30 min			8 A	RE8TA41BUTQ
	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	2 C/O contacts	8 A	RE7TP13BU
A, Ac, At, B, Bw, C, D, Di, H, Ht	1 s…100 h	∿ 24…240 V	1 solid state output	0.7 A	RE17LMBM
	1 s…100 h	∿/⎓ 12 V	1 C/O contact	8 A	RE17RMJU
	1 s…100 h	∿/⎓ 12…240 V	1 C/O contact	8 A	RE17RMMW
				8 A	RE17RMMWS
	1 s…100 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RMMU
A, At	1 s…100 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RAMU
A, At, Aw	0.05 s…300 h	∿ 110…240 V, ∿/⎓ 24 V, ∿/⎓ 42…48 V	1 C/O contact	8 A	RE7TM11BU
A, At, B, C, D, Di, H, Ht	1 s…10 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RMEMU
A, B, C, Di	0.02 s…300 h	∿/⎓ 24…240 V	2 C/O contacts	5 A	RE48AML12MW
A, C, D, Di, H, Qg, Qt, W	0.05 s…300 h	∿ 110…240 V, ∿/⎓ 24 V, ∿/⎓ 42…48 V	2 C/O contacts	8 A	RE7MY13BU
	0.05 s…300 h	∿/⎓ 24…240 V	2 C/O contacts	8 A	RE7MY13MW
A, C, D, Di, H, W	0.05 s…300 h	∿ 110…240 V, ∿/⎓ 24 V, ∿/⎓ 42…48 V	1 C/O contact	8 A	RE7ML11BU
A, D, Di, H	0.1 s…10 s and 3 s…300 s	∿/⎓ 24…240 V ∿ 24…240 V	1 solid state output	0.7 A	RE9MS21MW
A1, A2, H1, H2	0.02 s…300 h	∿/⎓ 24…240 V	2 C/O contacts	5 A	RE48AMH13MW
Ac	0.05 s…300 h	∿ 110…240 V, ∿/⎓ 24 V, ∿/⎓ 42…48 V	1 C/O contact	8 A	RE7MA11BU
			2 C/O contacts	8 A	RE7MA13BU
Ad, Ah, N, O, P, Pt, T, Tt, W	1 s…100 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RMXMU
Ak	0.05 s…300 h	∿ 110…240 V, ∿/⎓ 24 V, ∿/⎓ 42…48 V	1 C/O contact	8 A	RE7MV11BU

Selection table (continued)

Functions	Timing range	Supply voltage	Type of output	Rated current	Relay
B	1 s…100 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RBMU
C	0.1 s…10 s	∿/⎓ 24 V	1 C/O contact	8 A	RE8RA11BTQ
	0.3 s…30 s			8 A	RE8RA31BTQ
	3 s…300 s			8 A	RE8RA21BTQ
	1 s…100 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RCMU
	0.1 s…10 s	∿ 110…240 V	1 C/O contact	8 A	RE8RA11FUTQ
	0.3 s…30 s			8 A	RE8RA31FUTQ
	3 s…300 s			8 A	RE8RA21FUTQ
	20 s…30 min			8 A	RE8RA41FUTQ
	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	1 C/O contact	8 A	RE7RA11BU
				8 A	RE7RM11BU
			2 C/O contacts	8 A	RE7RL13BU
	0.1 s…10 s	∿ 24…240 V	1 solid state output	0.7 A	RE9RA11MW7
	0.3 s…30 s			0.7 A	RE9RA31MW7
	3 s…300 s			0.7 A	RE9RA21MW7
	40 s…60 min			0.7 A	RE9RA51MW7
	1 s…100 h			0.7 A	RE17LCBM
D	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V	1 C/O contact	8 A	RE7CL11BU
	0.1 s…10 s			8 A	RE8CL11BUTQ
	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	2 C/O contacts	8 A	RE7CP13BU
H	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V	1 C/O contact	8 A	RE7PE11BU
	0.1 s…10 s			8 A	RE8PE11BUTQ
	0.3 s…30 s			8 A	RE8PE31BUTQ
	3 s…300 s			8 A	RE8PE21BUTQ
	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	2 C/O contacts	8 A	RE7PP13BU
	1 s…100 h	∿ 24…240 V	1 solid state output	0. 7 A	RE17LHBM
H, Ht	1 s…100 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RHMU
He	0.05 s…0.5 s	∿/⎓ 24 V, ∿ 110…240 V	1 C/O contact	8 A	RE8PT01BUTQ
K	0.05 s…10 min	∿/⎓ 24…240 V	1 C/O contact	5 A	RE7RB11MW
	0.05 s…0.5 s	∿/⎓ 24 V, ∿ 110…240 V	1 C/O contact	8 A	RE8RB51BUTQ
	0.1 s…10 s			8 A	RE8RB11BUTQ
	0.3 s…30 s			8 A	RE8RB31BUTQ
	0.05 s…10 min	∿/⎓ 24…240 V	2 C/O contacts	5 A	RE7RB13MW
L, Li	1 s…100 h	⎓ 24 V, ∿ 24…240 V	1 C/O contact	8 A	RE17RLMU
	1 s…100 h	∿ 24…240 V	1 solid state output	0.7 A	RE17LLBM
	1 s…100 h	∿/⎓ 12 V	1 C/O contact	8 A	RE17RLJU
	0.02 s…300 h	∿/⎓ 24…240 V	2 timed C/O contacts	5 A	RE48ACV12MW
L, Li, Lt	0.05 s…300 h	∿ 110…240 V, ∿/⎓ 24 V, ∿/⎓ 42…48 V	1 C/O contact	8 A	RE7CV11BU
Qc	0.1 s…10 s	∿/⎓ 24 V, ∿ 110…240 V	1 C/O contact	8 A	RE8YG11BUTQ
	0.3 s…30 s			8 A	RE8YG31BUTQ
	3 s…300 s			8 A	RE8YG21BUTQ
Qe	0.3 s…30 s	∿/⎓ 24 V	1 NO + 1 NC	8 A	RE8YA32BTQ
	0.3 s…30 s	∿ 110…240 V	1 NO + 1 NC	8 A	RE8YA32FUTQ
	0.3 s…30 s	∿ 380…415 V	1 NO + 1 NC	8 A	RE8YA32QTQ
Qg	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	1 NO + 1 NC	8 A	RE7YR12BU
Qt	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	2 C/O contacts	8 A	RE7YA12BU
W	0.1 s…10 s	∿/⎓ 24 V	1 C/O contact	8 A	RE8PD11BTQ
	0.3 s…30 s			8 A	RE8PD31BTQ
	3 s…300 s			8 A	RE8PD21BTQ
	0.1 s…10 s	∿ 110…240 V	1 C/O contact	8 A	RE8PD11FUTQ
	0.3 s…30 s			8 A	RE8PD31FUTQ
	3 s…300 s			8 A	RE8PD21FUTQ
	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	2 C/O contacts	8 A	RE7PD13BU
W, Ht	0.05 s…300 h	∿/⎓ 24 V, ∿ 110…240 V, ∿/⎓ 42…48 V	1 C/O contact	8 A	RE7PM11BU

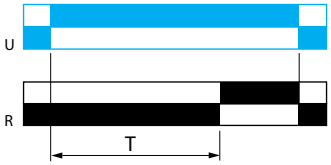
Functions

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

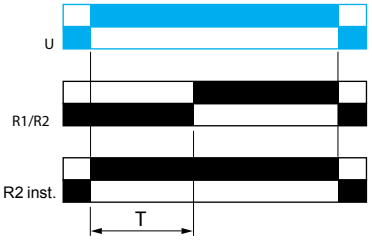
Function diagram :
- Relay de-energized
- Relay energized
- Output open
- Output closed

Function A: Power on delay relay

1 output



2 outputs

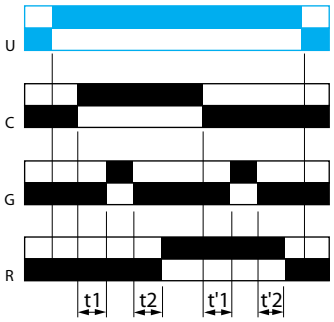


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

The timing period T begins on energization.
After timing, the output(s) R close(s).
The second output can be either timed or instantaneous.

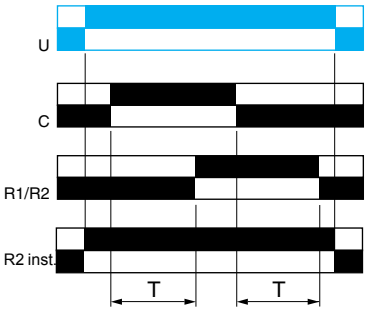
Function Ac: On-delay and off-delay relay with control signal

1 output



T = t1 + t2 + …
T = t'1 + t'2 + …

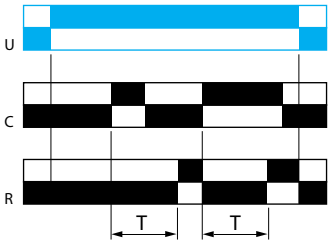
2 outputs



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

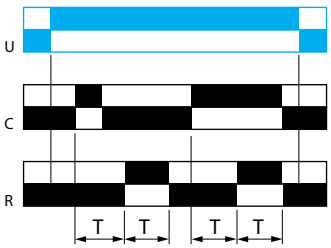
After power-up, closing of the control contact C causes the timing period T to start (timing can be interrupted by operating the Gate control contact G).
At the end of this timing period, the relay closes.
When control contact C re-opens, the timing T starts.
At the end of this timing period T, the output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

Function Ad: Pulse delayed relay with control signal



After power-up, pulsing or maintaining control contact C starts the timing T.
At the end of this timing period T, the output R closes.
The output R will be reset the next time control contact C is pulsed or maintained.

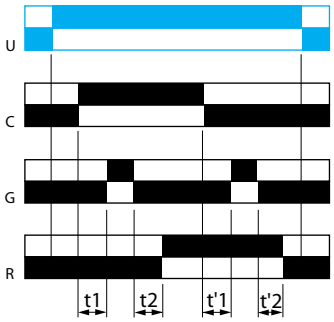
Function Ah: Pulse delayed relay (single cycle) with control signal



After power-up, pulsing or maintaining control contact C starts the timing T.
A single cycle then starts with 2 timing periods T of equal duration (start with output in rest position).
Output R changes state at the end of the first timing period T and reverts to its initial position at the end of the second timing period T.
Control contact C must be reset in order to re-start the single flashing cycle.

Functions (continued)

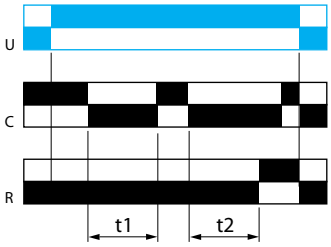
Function Ak: Asymmetrical On-delay and Off-delay with external control



After power-up and closing of the control contact C, timing starts for a period Ta (timing can be interrupted by operating the Gate control contact G).
At the end of this timing period Ta, the output R closes.
Opening of control contact C causes a second timing period Tr to start (timing can be interrupted by operating the Gate control contact G).
At the end of this timing period Tr, the output R reverts to its initial state.

Ta = t1 + t2 + …
Tr = t'1 + t'2 + …

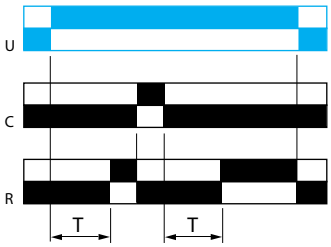
Function At: Power on delay relay (summation) with control signal



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

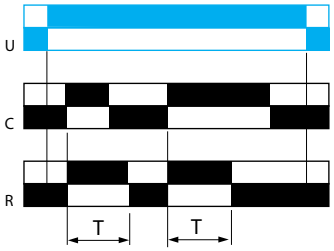
T = t1 + t2 + …

Function Aw: Off-delay on energization or on opening of control contact



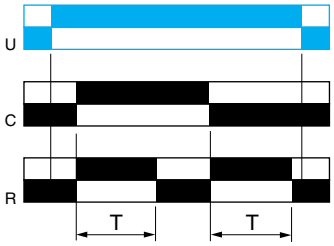
The timing period T starts on energization.
At the end of the timing period T, the output R closes.
Closing of the control contact C makes the output R open.
Opening of control contact C restarts timing period T.
At the end of the timing period T, the output R closes.

Function B: Interval relay with control signal



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 Bw: Double interval relay with control signal

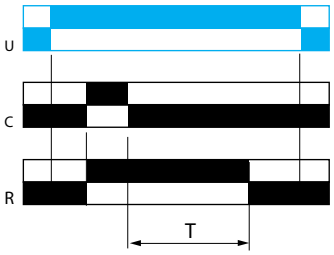


On closing and opening of control contact C, the output R closes for the duration of the timing period T.

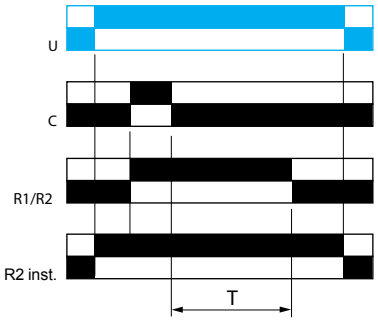
Functions (continued)

Function C:Off-delay relay with control signal

1 output



2 outputs

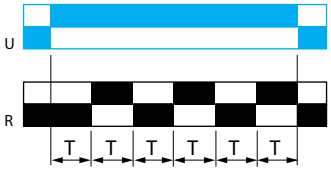


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

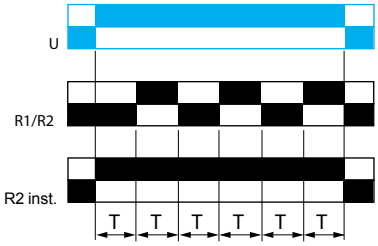
After power-up and closing of the control contact C, the output R closes.
When control contact C re-opens, timing T starts.
At the end of the timing period, output(s) R revert(s) to its/their initial state.
The second output can be either timed or instantaneous.

Function D: Symmetrical flasher relay (starting pulse off)

1 output



2 outputs

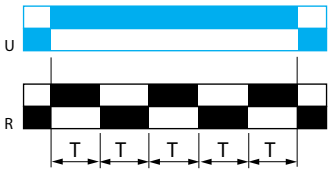


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

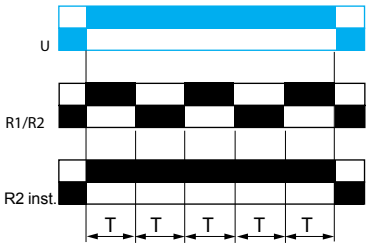
Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.
The second output can be either timed or instantaneous.

Function Di: Symmetrical flasher relay (starting pulse on)

1 output



2 outputs

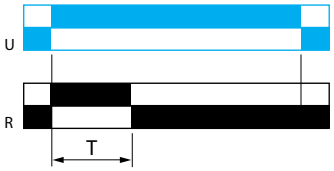


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

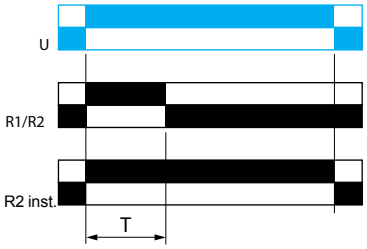
Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.
The second output can be either timed or instantaneous.

Function H: Interval relay

1 output



2 outputs

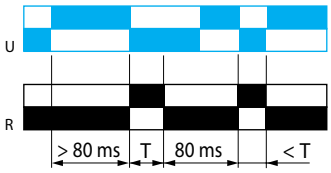


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

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

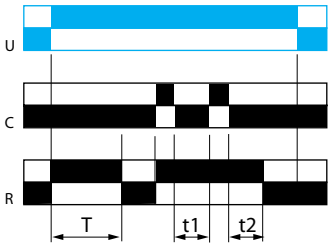
Functions (continued)

Function He: Pulse-on de-energization



On de-energization, the output R closes for the duration of a timing period T.

Function Ht: Interval relay (summation) with control signal

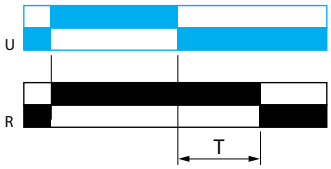


On energization, the output R closes for the duration of a timing period T then reverts to its initial state.
Pulsing or maintaining control contact C will again close the output R.
Timing T is only active when control contact C is released and so the output R will not revert to its initial state until after a time t1 + t2 + … .
The relay memorises the total, cumulative opening time of control contact C and, once the set time T is reached, output R reverts to its initial state.

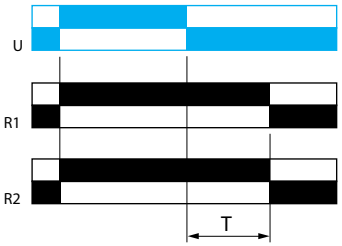
T = t1 + t2 + …

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

1 output

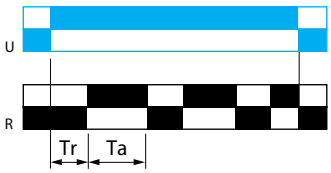


2 outputs



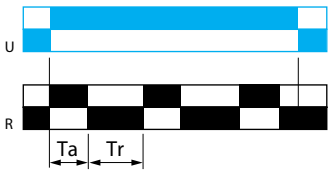
On energization, the output(s) R close(s).
On de-energization, timing period T starts and, at the end of this period, the output(s) R revert to its/their initial state.

Function L: Asymmetrical flasher relay (starting pulse off)



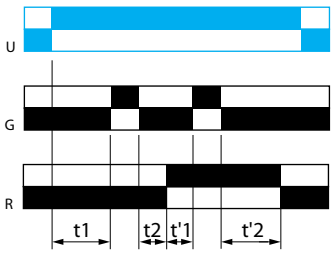
Repetitive cycle consisting of two, independently adjustable timing periods Ta and Tr.
Each timing period corresponds to a different state of the output R.

Function Li:Asymmetrical flasher relay (starting pulse on)



Repetitive cycle consisting of two, independently adjustable timing periods Ta and Tr.
Each timing period corresponds to a different state of the output R.

Function Lt: Asymmetrical flashing with partial stop of timing

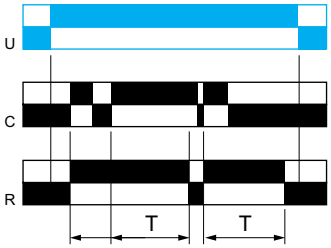


Repetitive cycle comprises of two, independently adjustable timing periods Ta and Tr.
Each timing period corresponds to a different state of the output R.
Gate control contact G can be operated to partially stop timing periods Ta and Tr.

Tr = t1 + t2 + …
Ta = t'1 + t'2 + …

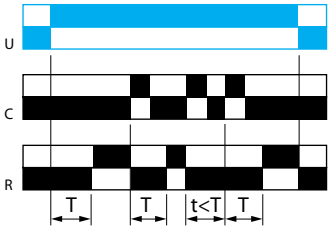
Functions (continued)

Function N: Retriggerable interval relay with control signal on



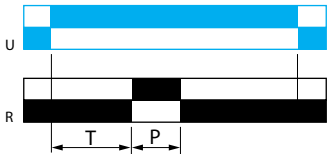
After power-up and an initial control pulse C, the output R closes.
If the interval between two control pulses C is greater than the set timing period T, timing elapses normally and the output R opens at the end of the timing period. If the interval is not greater than the set timing period, the output R remains closed until this condition is met.

Function O: Retriggerable interval delayed relay with control signal on



An initial timing period T begins on energization. At the end of this timing period, the output R closes.
As soon as there is a control pulse C, the output R reverts to its initial state and remains in that state until the interval between two control pulses is less than the value of the set timing period T. Otherwise, the output R closes at the end of the timing period T.

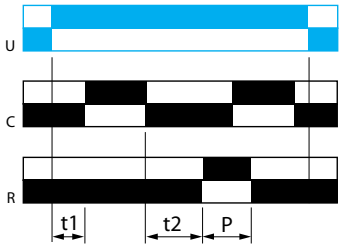
Function P: Pulse delayed relay with fixed pulse length



P = 500 ms

The timing period T starts on energization.
At the end of this period, the output R closes for a fixed time P.

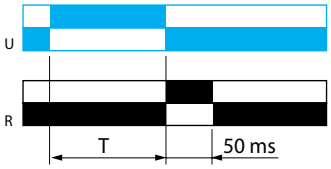
Function Pt: Pulse delayed relay (summation and fixed pulse length) with control signal off



T = t1 + t2 + …
P = 500 ms

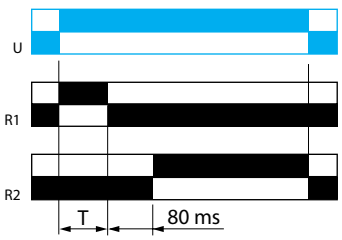
On energization, timing period T starts (it can be interrupted by operating control contact C).
At the end of this period, the output R closes for a fixed time P.

Function Qc: Star-delta timing



Timing for star delta starter with contact for switching to star connection.

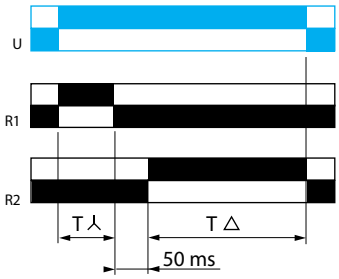
Function Qe: Star-delta timing



On energization, the star contact closes instantly and timing starts.
At the end of the timing period, the star contact opens.
After a 80 ms pause, the delta contact closes and remains in this position.

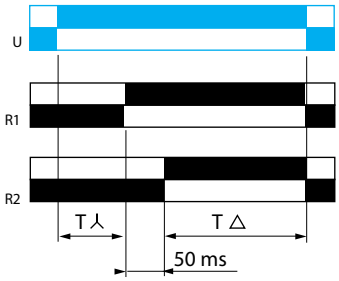
Functions (continued)

Function Qg: Star-delta timing



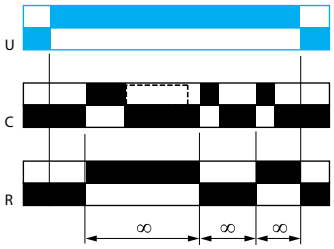
Timing for star delta starter with contact for switching to star connection.

Function Qt: Star-delta timing



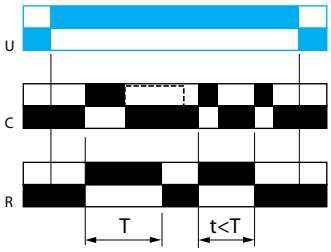
Timing for star-delta starter with double On-delay period.

Function T: Bistable relay with control signal on



After power-up, pulsing or maintaining of control contact C switches the output on.
A second pulse on the control contact C switches the output R off.

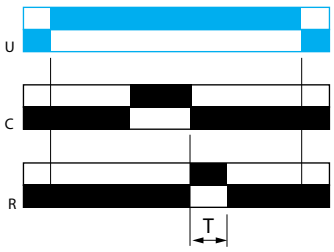
Function Tt: Retriggerable bistable relay with control signal on



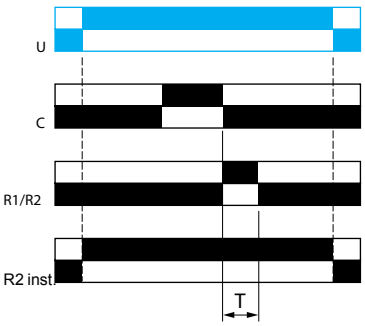
After power-up, pulsing or maintaining control contact C switches output R on and starts timing.
The output switches off at the end of the timing period T or following a second pulse on the control contact C.

Function W: Interval relay with control signal off

1 output



2 outputs



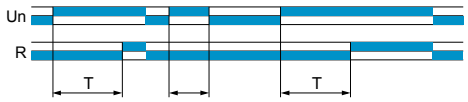
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

After power-up and opening of the control contact, the output(s) 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 can be either timed or instantaneous.

Zelio Time - timing relays
Electronic relays, relay output, 48 x 48

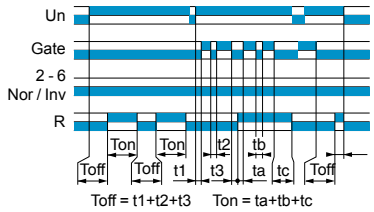
RE48ATM12MW

Function A: Delay on energization

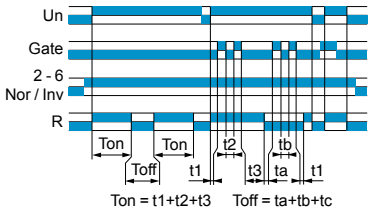


RE48ACV12MW

Function L: Asymmetrical flashing, start with output in rest position

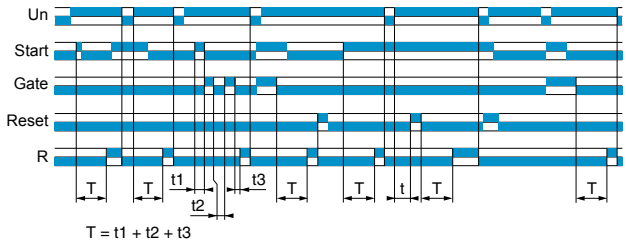


Function Li: Asymmetrical flashing, start with output in operating position

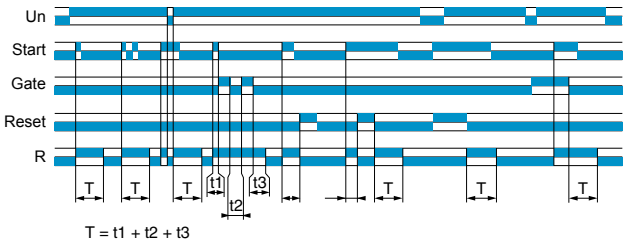


RE48AML12MW

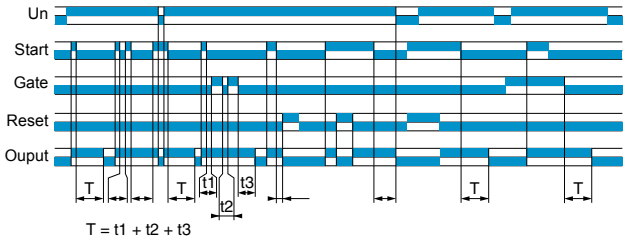
Function A: Delay on energization



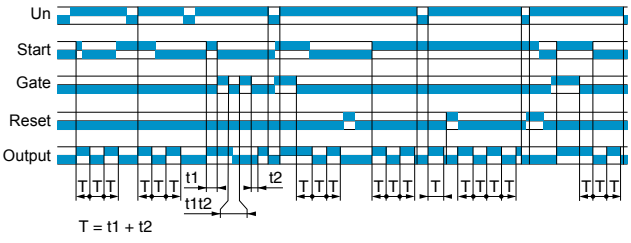
Function B: Timing on impulse, one shot



Function C: Timing after opening of control contact

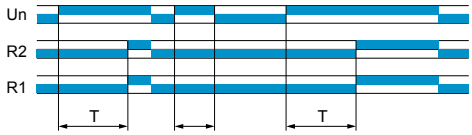


Function Di: Symmetrical flashing, start with output in operating position

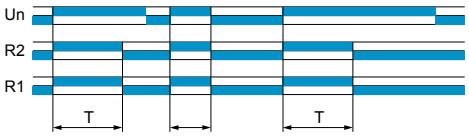


RE48AMH13MW

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 relays 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

Modular relays with solid state output 0.7 A

Single function

Timing ranges	Functions	Voltages V	Reference	Weight kg/*lb*
1 s, 10 s,	A	⎓ 24…240	**RE17LAMW**	0.060/ *0.132*
1 min, 10 min,	H	~ 24…240	**RE17LHBM**	0.060/ *0.132*
1 h, 10 h, 100 h	C	~ 24…240	**RE17LCBM**	0.060/ *0.132*

Dual function

Timing ranges	Functions	Voltages V	Reference	Weight kg/*lb*
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	L, Li	~ 24…240	**RE17LLBM**	0.060/ *0.132*

Multifunction

Timing ranges	Functions	Voltages V	Reference	Weight kg/*lb*
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*

Relay output, 1 C/O contact

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

RE17R●M●

Modular relays with relay output, 1 C/O contact

Single function

Timing ranges	Functions	Voltages V	Reference	Weight kg/*lb*
1 s, 10 s,	B	⎓ 24 / ~ 24…240	**RE17RBMU**	0.070/ *0.154*
1 min, 10 min, 1 h, 10 h, 100 h	C	⎓ 24 / ~ 24…240	**RE17RCMU**	0.070/ *0.154*

Dual function

Timing ranges	Functions	Voltages V	Reference	Weight kg/*lb*
1 s, 10 s,	A, At	⎓ 24 / ~ 24…240	**RE17RAMU**	0.070/ *0.154*
1 min, 10 min,	H, Ht	⎓ 24 / ~ 24…240	**RE17RHMU**	0.070/ *0.154*
1 h, 10 h, 100 h	L, Li	⎓ 24 / ~ 24…240	**RE17RLMU**	0.070/ *0.154*
		⎓ 12	**RE17RLJU**	0.070/ *0.154*

Multifunction

Timing ranges	Functions	Voltages V	Reference	Weight kg/*lb*
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**	0.070/ *0.154*
		⎓ 12…240	**RE17RMMW**	0.070/ *0.154*
			RE17RMMWS	0.070/ *0.154*
	Ad, Ah, N, O, P, Pt, T, Tt, W	⎓ 24 / ~ 24…240	**RE17RMXMU**	0.070/ *0.154*
1 s, 10 s, 1 min 10 min, 1 h, 10 h	A, At, B, C, H, Ht, D, Di	⎓ 24 / ~ 24…240	**RE17RMEMU**	0.070/ *0.154*

Zelio Time - timing relays

Industrial single or multifunction relays,
solid state output, width 22.5 mm/*0.886 in.*

Solid state output

- ☐ *Multifunction or single function*
- ☐ *Multivoltage*
- ☐ *Screw terminals*
- ☐ *Transparent, hinged and sealable flap on front panel*

PF121100A

RE9●A●1MW

PF105869

RE9MS21MW

References

Single function

Timing ranges	Functions	Voltages	Reference	Weight
		V		kg/*lb*
0.1 s…10 s	A	≂ 24… 240 V	RE9TA11MW	0.110/ *0.243*
	C	≂ 24… 240 V	RE9RA11MW7	0.110/ *0.243*
0.3 s…30 s	A	≂ 24… 240 V	RE9TA31MW	0.110/ *0.243*
	C	≂ 24… 240 V	RE9RA31MW7	0.110/ *0.243*
3 s…300 s	A	≂ 24… 240 V	RE9TA21MW	0.110/ *0.243*
	C	≂ 24… 240 V	RE9RA21MW7	0.110/ *0.243*
40 s…60 min	A	≂ 24… 240 V	RE9TA51MW	0.110/ *0.243*
	C	≂ 24… 240 V	RE9RA51MW7	0.110/ *0.243*

Multifunction

0.1 s…10 s, 0.3 s…30 s	A	≂ 24… 240 V	RE9MS21MW	0.110/ *0.243*
	H, D, Di	∼ 24…240 V		

Zelio time - timing relays

Industrial single, dual or multifunction relays, relay output, width 22.5 mm/*0.886 in.*

Output 1 C/O and 2 C/O contacts

- *Multifunction, dual function or single function*
- *Multiple timing ranges (7 switchable ranges)*
- *Multivoltage*
- *1 and 2 relay outputs: 8 A - 250 V (10 A UL)*
- *Screw or spring terminals*
- *State indication by 1 LED*
- *Option of supplying a load in parallel*
- *3-wire sensor control option*

PF516208

RE88865125

PF516211

RE88865155

References

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight kg/*lb*
			V		kg/*lb*
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	B	1	≂ 24…240	**RE88865125** *(1)*	0.090/ *0.198*
	C	1	≂ 24…240	**RE88865135** *(1)*	0.090/ *0.198*
0.6 s, 2.5 s, 20 s, 160 s	K	2	≂ 24…240	**RE88865265** *(1)*	0.090/ *0.198*

Selectable interswitching time	Functions	No. of relay outputs	Voltages	Reference	Weight kg/*lb*
20 ms, 40 ms, 60 ms, 80 ms, 100 ms, 120 ms, 140 ms	Q	1	≂ 24…240	**RE88865175** *(1)*	0.090/ *0.198*
			~ 230 / 380	**RE88865176** *(1)*	0.090/ *0.198*

Dual function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight kg/*lb*
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At	2	≂ 24…240	**RE88865215** *(1)*	0.090/ *0.198*
		1	≂ 24…240	**RE88865115** *(1)*	0.090/ *0.198*
	H, Ht	1	≂ 24…240	**RE88865145** *(1)*	0.090/ *0.198*
	L, Li	1	≂ 24…240	**RE88865155** *(1)*	0.090/ *0.198*

Multifunction

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight kg/*lb*
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, Di, D, Ac, Bw	1	≂ 24…240	**RE88865105** *(1)*	0.090/ *0.198*
		1	≂ 12	**RE88865100** *(1)*	0.090/ *0.198*
		1	≂ 12…240	**RE88865103** *(1)*	0.090/ *0.198*
				RE88865503 *(2)*	0.090/ *0.198*
		2 of which 1 convertible to instantaneous	≂ 24…240	**RE88865305** *(1)*	0.090/ *0.198*
			≂ 12	**RE88865300** *(1)*	0.090/ *0.198*
			≂ 12…240	**RE88865303** *(1)*	0.090/ *0.198*
	Ad, Ah, N, O P, Pt, Tl, Tt, W	1	≂ 24…240	**RE88865185** *(1)*	0.090/ *0.198*
		2	≂ 24…240	**RE88865385** *(1)*	0.090/ *0.198*

(1) Connection by screw terminals.
(2) Connection by spring terminals.

Zelio time - timing relays

Industrial single, dual or multifunction relays, relay output, width 22.5 mm/*0.886 in.*

Output 1 C/O and 2 C/O contacts

- ☐ *Multifunction, dual function or single function*
- ☐ *Multiple timing ranges*
- ☐ *Multivoltage*
- ☐ *Transparent, hinged and sealable flap on front panel*

PF103444SE

RE7TM11BU

PF105803SE

RE7MA11BU

PF510221

RE7CV11BU

References (continued)

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/*lb*
0.05 s…300 h (10 ranges)	**A, Aw, At**	1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7TM11BU**	0.150/ *0.331*
	Ac	1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7MA11BU**	0.150/ *0.331*
		2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7MA13BU** *(symmetrical)*	0.150/ *0.331*
	Ak	1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7MV11BU**	0.150/ *0.331*
	C	1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7RA11BU**	0.150/ *0.331*
		1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7RM11BU** *(low level contact)*	0.150/ *0.331*
		2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7RL13BU** *(low level contact)*	0.150/ *0.331*
	Ht, W	1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7PM11BU**	0.150/ *0.331*
	L, Li, Lt	1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7CV11BU**	0.150/ *0.331*
	A, C, H, W, D, Di	1	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7ML11BU**	0.150/ *0.331*
	A	1	⎓ 24, ∿ 110…240	**RE7TL11BU**	0.150/ *0.331*
		2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7TP13BU**	0.150/ *0.331*
	H	1	⎓ 24, ∿ 110…240	**RE7PE11BU**	0.150/ *0.331*
		2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7PP13BU**	0.150/ *0.331*
	D	1	⎓ 24, ∿ 110…240	**RE7CL11BU**	0.150/ *0.331*
		2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7CP13BU**	0.150/ *0.331*
	W	2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7PD13BU**	0.150/ *0.331*
	Qt	2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7YA12BU**	0.150/ *0.331*
	Qg	2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7YR12BU**	0.150/ *0.331*
	A, C, H, W, D, Di, Qg, Qt	2	⎓ 24, ∿ 110…240, ⎓ 42…48	**RE7MY13BU**	0.150/ *0.331*
		2	⎓ 24…240	**RE7MY13MW**	0.150/ *0.331*
0.05 s…10 min (7 ranges)	**K**	1	⎓ 24…240	**RE7RB11MW**	0.150/ *0.331*
		2	⎓ 24…240	**RE7RB13MW**	0.150/ *0.331*

Zelio Time - timing relays

Industrial single function relays, optimum, relay output, width 22.5 mm/*0.886 in.*

- *Single function*
- *Single timing range*
- *Output 1 C/O contact*
- *Transparent, hinged and sealable flap on front panel*

PF109867SE

RE8TA●●●●●●

References

Timing ranges	Functions	Voltages	Unit reference *(1)*	Weight
		V		kg/*lb*
0.05 s…0.5 s	K	⎓ 24, ∿ 110…240	RE8RB51BUTQ	0.110/ *0.243*
	He	⎓ 24, ∿ 110…240	RE8PT01BUTQ	0.110/ *0.243*
0.1 s…3 s	A	⎓ 24, ∿ 110…240	RE8TA61BUTQ	0.110/ *0.243*
0.1 s…10 s	A	⎓ 24, ∿ 110…240	RE8TA11BUTQ	0.110/ *0.243*
	C	⎓ 24	RE8RA11BTQ	0.110/ *0.243*
		∿ 110…240	RE8RA11FUTQ	0.110/ *0.243*
	D	⎓ 24, ∿ 110…240	RE8CL11BUTQ	0.110/ *0.243*
	K	⎓ 24, ∿ 110…240	RE8RB11BUTQ	0.110/ *0.243*
	H	⎓ 24, ∿ 110…240	RE8PE11BUTQ	0.110/ *0.243*
	Qc	⎓ 24, ∿ 110…240	RE8YG11BUTQ	0.110/ *0.243*
	W	⎓ 24	RE8PD11BTQ	0.110/ *0.243*
		∿ 110…240	RE8PD11FUTQ	0.110/ *0.243*
0.3 s…30 s	A	⎓ 24, ∿ 110…240	RE8TA31BUTQ	0.110/ *0.243*
	C	⎓ 24	RE8RA31BTQ	0.110/ *0.243*
		∿ 110…240	RE8RA31FUTQ	0.110/ *0.243*
	H	⎓ 24, ∿ 110…240	RE8PE31BUTQ	0.110/ *0.243*
	K	⎓ 24, ∿ 110…240	RE8RB31BUTQ	0.110/ *0.243*
	Qc	⎓ 24, ∿ 110…240	RE8YG31BUTQ	0.110/ *0.243*
	Qe	⎓ 24	RE8YA32BTQ	0.110/ *0.243*
		∿ 110…240	RE8YA32FUTQ	0.110/ *0.243*
		∿ 380…415	RE8YA32QTQ	0.110/ *0.243*
	W	⎓ 24	RE8PD31BTQ	0.110/ *0.243*
		∿ 110…240	RE8PD31FUTQ	0.110/ *0.243*
3 s…300 s	A	⎓ 24, ∿ 110…240	RE8TA21BUTQ	0.110/ *0.243*
	C	⎓ 24	RE8RA21BTQ	0.110/ *0.243*
		∿ 110…240	RE8RA21FUTQ	0.110/ *0.243*
	H	⎓ 24, ∿ 110…240	RE8PE21BUTQ	0.110/ *0.243*
	Qc	⎓ 24, ∿ 110…240	RE8YG21BUTQ	0.110/ *0.243*
	W	⎓ 24	RE8PD21BTQ	0.110/ *0.243*
		∿ 110…240	RE8PD21FUTQ	0.110/ *0.243*
20 s…30 min	A	⎓ 24, ∿ 110…240	RE8TA41BUTQ	0.110/ *0.243*
	C	∿ 110…240	RE8RA41FUTQ	0.110/ *0.243*

(1) These products are sold in packs of 10

Zelio Time - timing relays

Universal plug-in relays, 11-pin, relay output, width 35 mm/1.377 *in.*

Output 2 C/O contacts

- ☐ *Multifunction, dual function or single function*
- ☐ *Multiple timing ranges (7 switchable ranges)*
- ☐ *Multivoltage*
- ☐ *2 relay output: 8 A - 250 V (10 A UL)*
- ☐ *Plug-in*
- ☐ *State indication by 1 LED*
- ☐ *Option of supplying a load in parallel*
- ☐ *3-wire sensor control option*

PF516212

RE88867415

PF516213

RE88867305

PF516214

RE88867300

References

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/*lb*
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	**C**	2	≂ 24…240	**RE88867435**	0.080/ *0.176*

Dual function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	**A, At**	2	≂ 24…240	**RE88867415**	0.080/ *0.176*
	Li, L	2	≂ 24…240	**RE88867455**	0.080/ *0.176*

Multifunction

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
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 of which 1 instantaneous	≂ 24…240	**RE88867305**	0.080/ *0.176*
			≂ 12	**RE88867300**	0.080/ *0.176*
			≂ 12…240	**RE88867303**	0.080/ *0.176*

Sockets for 11-pin relays

Contact terminal arrangement	For use with relays	Connection	Unit reference *(1)*	Weight kg/*lb*
Mixed *(2)*	RE88867●●●	Connector	**RXZE2M114**	0.054/ *0.119*

(1) These products are sold in packs of 10

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

Zelio Time - timing relays

Universal plug-in relays, 8-pin, relay output, width 35 mm/1.377 *in.*

Output 1 C/O or 2 C/O contacts

- *Multifunction, dual function or single function*
- *Multiple timing ranges (7 switchable ranges)*
- *Multivoltage*
- *1 or 2 relay outputs: 8 A - 250 V (10 A UL)*
- *Plug-in*
- *State indication by 1 LED*
- *Option of supplying a load in parallel*
- *3-wire sensor control option*

PF516215

RE88867215

PF516216

RE88867155

PF516217

RE88867105

References

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/*lb*
1 s, 10 s , 1 min, 10 min, 1 h, 10 h, 100 h	**A**	2	≂ 24…240	**RE88867215**	0.080/ *0.176*
	C	1	≂ 24…240	**RE88867135**	0.080/ *0.176*

Dual function

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	**Li, L**	1	≂ 24…240	**RE88867155**	0.080/ *0.176*

Multifunction

1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	**A, At, B, C, H, Ht, Di, D, Ac, Bw**	1	≂ 24…240	**RE88867105**	0.080/ *0.176*
			≂ 12	**RE88867100**	0.080/ *0.176*
			≂ 12…240	**RE88867103**	0.080/ *0.176*

Sockets for 8-pin relays

Contact terminal arrangement	For use with relays	Unit reference *(1)*	Weight kg/*lb*
Mixed *(2)*	RE888671●●, RE888672●●	**RUZC2M**	0.054/ *0.119*

(1) These products are sold in packs of 10

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

Zelio Time - timing relays
Miniature plug-in relays, relay output

Output, 2 C/O and 4 C/O 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*

PF516218

REXL2TM●●

PF516219

REXL4TM●●

References

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/*lb*
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 (7 switchable ranges)	**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	⎓ 12	**REXL4TMJD**	0.050/ *0.110*
			⎓ 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	**RXZES108M**	0.070/ *0.154*
	REXL4TM●●	Connector	**RXZE2S114M**	0.058/ *0.128*

(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 supply, with the outputs being located on the opposite side of the socket.
(4) The inputs and outputs are separated from the relay supply.
(5) Thermal current Ith: 10 A.
(6) Thermal current Ith: 12 A.

Zelio Time - timing relays
Analog, electronic relays, relay output, 48 x 48

Output 2 C/O 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*

PF110452

RE48ATM12MW

PF110451

RE48AMH13MW

DF523398

RUZC3M

109804

RE48ASOC11AR

109803

RE8ASOC8SOLD

109805

RE48ASOC11SOLD

109806

RE48ASETCOV

109807

RE48AIPCOV

References

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**	1	≂ 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

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	**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*
IP20 socket with screw terminal connections on rear face	11	RE48ACV12MW, RE48AML12MW	1	**RE48ASOC11AR**	–

Connectors and protective cover

IP20 solder connectors	8	RE48ATM12MW, RE48AMH13MW	1	**RE48ASOC8SOLD**	–
	11	RE48ACV12MW, RE48AML12MW	1	**RE48ASOC11SOLD**	–
Setting protection cover	–	RE48ATM12MW, RE48ACV12MW, RE48AML12MW, RE48AMH13MW	1	**RE48ASETCOV**	–
Protective cover IP64	–	RE48ATM12MW, RE48ACV12MW, RE48AML12MW, RE48AMH13MW	1	**RE48AIPCOV**	–

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

Zelio Time - timing relays
Panel-mounted universal, plug-in relays, relay output

Output 1 C/O or 2 C/O contacts

- *LCD display*
- *Multifunction or single function*
- *Multirange*
- *Multivoltage*
- *1 8A relay or 2 relay outputs: 5 A (RE8885740●), 8 A (RE8885730●)*
- *Reset function on front panel (RE8885730●)*
- *Memory in the event of mains power failure (RE 88 857 30●)*
- *Locking of access to programming (RE8885710● and RE8885700●)*
- *Upcount or downcount mode*
- *Internal supply by lithium battery (10 years at 20 °C)*

PF112150SE

RE8885740●

PF516220

RE8885760●

References

8-pin relay

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
			V		kg/*lb*
99.99 s, 999.9 s, 9999 s, 99 min 59 s, 99.99 min, 999.9 min, 9999 min, 99 h 59 min, 99.99 h, 999.9 h, 9999 h	**A, B, C, D, Di, H**	1	⎓ 12 and ≂ 24…48	**RE88857003**	0.100/ *0.220*
			≂ 24 and ∿ 110…240	**RE88857005**	0.100/ *0.220*
			≂ 24 and ≂ 48	**RE88857604**	0.100/ *0.220*
			≂ 24 V and ∿ 110, (50/60 Hz)	**RE88857607**	0.100/ *0.220*
			≂ 24 and ∿ 24…240, (50/60 Hz)	**RE88857601**	0.100/ *0.220*

11-pin relay

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Weight
99.99 s, 999.9 s, 9999 s, 99 min 59 s, 99.99 min, 999.9 min, 9999 min, 99 h 59 min, 99.99 h, 999.9 h, 9999 h	**A, B, C, D, Di, H**	1	⎓ 12 and ≂ 24…48	**RE88857103**	0.100/ *0.220*
			≂ 24 and ∿ 110…240	**RE88857105**	0.100/ *0.220*
			≂ 24 and ≂ 48	**RE88857704**	0.100/ *0.220*
			≂ 24 V and ∿ 110 (50/60 Hz)	**RE88857707**	0.100/ *0.220*
			≂ 24 and ∿ 24…240 (50/60 Hz)	**RE88857701**	0.100/ *0.220*

Sockets for relays

Number of pins	For use with relays	Unit reference *(1)*	Weight kg/*lb*
8-pin connector	RE8885740●, RE8885700●, RE8885760●	**RUZC2M**	0.054/ *0.119*
11-pin	RE8885710●, RE8885730●, RE8885770●	**RUZC3M**	0.054/ *0.119*

(1) These products are sold in packs of 10

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35, rue Joseph Monier
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France

Design: Schneider Electric
Photos: Schneider Electric
Printed by:

DIA5ED2130103EN

January 2013-V1.2