Zelio®
Timing relays

Catalog

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Schneider Electric

Contents

Zelio® Timing Relays

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Applications	Zelio 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 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	**RE11L●●●**	**RE9**	**RE11R●●●**	**RE88865●●● RE7**
See pages	*16, 26*	*17, 28*	*16, 26*	*18 ,19, 32, 28*

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Zelio 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 isolation between the supply circuit and the output.
It is possible to have several output circuits.

Optimum	Plug-in		Panel mounted
	Universal	Miniature	Analog
□ *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:* 0.1–1 s, 1–10 s, 0.1–1 min, 1–10 min, 0.1–1 h, 1–10 h, 10–100 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
RE8	**RE88867●●●**	**REXL●TM●●**	**RE48A●●●**
20, 28	*21 , 22, 34*	*23, 33*	*24, 35*

DIN rail mounted relays

RE11   RE7, RE8, RE9   REXL

Panel mounted relays

RE48A

Introduction

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**, **RE11**, **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 timed or instantaneous.
If the power is switched off during the timing period, the relay reverts to its initial position.

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

Definitions

■ **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 isolation between the supply and the output.

There are three types of outputs:

□ **C/O**: changeover contact. When the relay is de-energized, the circuit between the common point C and N/C is closed. When the relay is operating (coil energized), the circuit between the common point C and N/O is closed.

□ **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):
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.

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Functions

Timing functions are identified by letters.

Main timing functions	Complementary functions (1)	Definitions
A (2)		Delay on energization
	Ac	Timing after closing and opening of control contact
	Ad	Timing on closing of control contact
	Ah	Flashing single cycle by operation of control contact
	Ak	Asymmetrical On-delay and Off-delay with external control
	At	Delay on energization with memory
	Aw	Off-delay on energization or on opening of control contact
B (2)		Timing on impulse, one shot
	Bw	Pulse output (width adjustable)
C (2)		Timing after opening of control contact
D (2)		Symmetrical flashing, start with output in rest position
	Di (2)	Symmetrical flashing, start with output in operating position
H (2)		Timing on energization
	He	Pulse-on de-energization
	Ht	Timing on energization with memory
K		Delay on de-energization (without auxiliary supply)
L (2)		Asymmetrical flashing, start with output in rest position
	Li (2)	Asymmetrical flashing, start with output in operating position
	Lt	Asymmetrical flashing with partial stop of timing
N		Safeguard
O		Delayed safeguard
P		Delayed fixed-length pulse
	Pt	Impulse counter (On-delay)
	Qc	Star-delta timing
	Qe	Star-delta timing
	Qg	Star-delta timing
	Qt	Star-delta timing
T		Bistable relay
	Tt	Timed impulse relay
W		On-delay after opening of control contact

(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.

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Selection table

Selection criteria

- **Functions** (On-delay or Off-delay, counter, flashing)
- **Supply voltage** (example: ∿/⎓ 12–240 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
	0.1–10 s	∿/⎓ 24–240 V	1 solid state output	0.7 A	RE9TA11MW
	0.3–30 s			0.7 A	RE9TA31MW
	3–300 s			0.7 A	RE9TA21MW
	40 s–60 min			0.7 A	RE9TA51MW
	1 s–100 h			0.7 A	RE11LAMW
	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
	0.1–3 s			8 A	RE8TA61BUTQ
	0.1–10 s			8 A	RE8TA11BUTQ
	0.3–30 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	RE11LMBM
	1 s–100 h	∿/⎓ 12 V	1 C/O contact	8 A	RE11RMJU
	1 s–100 h	∿/⎓ 12–240 V	1 C/O contact	8 A	RE11RMMW
				8 A	RE11RMMWS
	1 s–100 h	⎓ 24 V, ∿ 24–240 V	1 C/O contact	8 A	RE11RMMU
A, At	1 s–100 h	⎓ 24 V, ∿ 24–240 V	1 C/O contact	8 A	RE11RAMU
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	5 A	RE11RMEMU
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	0.1–10 s and 3–300 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	RE11RMXMU
Ak	0.05 s–300 h	∿ 110–240 V, ∿/⎓ 24 V, ∿/⎓ 42–48 V	1 C/O contact	8 A	RE7MV11BU

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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	RE11RB MU
C	0.1–10 s	∿/⎓ 24 V	1 C/O contact	8 A	RE8RA11BTQ
	0.3–30 s			8 A	RE8RA31BTQ
	3–300 s			8 A	RE8RA21BTQ
	1 s–100 h	⎓ 24 V, ∿ 24–240 V	1 C/O contact	8 A	RE11RCMU
	0.1–10 s	∿ 110–240 V	1 C/O contact	8 A	RE8RA11FUTQ
	0.3–30 s			8 A	RE8RA31FUTQ
	3–300 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
	0.1–10 s	∿ 24–240 V	1 solid state output	0.7 A	RE9RA11MW7
	0.3–30 s			0.7 A	RE9RA31MW7
	3–300 s			0.7 A	RE9RA21MW7
	40 s–60 min			0.7 A	RE9RA51MW7
	1 s–100 h			0.7 A	RE11LCBM
D	0.05 s–300 h	∿/⎓ 24 V, ∿ 110–240 V	1 C/O contact	8 A	RE7CL11BU
	0.1–10 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
	0.1–10 s			8 A	RE8PE11BUTQ
	0.3–30 s			8 A	RE8PE31BUTQ
	3–300 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	RE11LHBM
H, Ht	1 s–100 h	⎓ 24 V, ∿ 24–240 V	1 C/O contact	8 A	RE11RHMU
He	0.05–0.5 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
	0.05–0.5 s	∿/⎓ 24 V, ∿ 110–240 V	1 C/O contact	8 A	RE8RB51BUTQ
	0.1–10 s			8 A	RE8RB11BUTQ
	0.3–30 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	RE11RLMU
	1 s–100 h	∿ 24–240 V	1 solid state output	0.7 A	RE11LLBM
	1 s–100 h	∿/⎓ 12 V	1 C/O contact	8 A	RE11RLJU
	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	0.1–10 s	∿/⎓ 24 V, ∿ 110–240 V	1 C/O contact	8 A	RE8YG11BUTQ
	0.3–30 s			8 A	RE8YG31BUTQ
	3–300 s			8 A	RE8YG21BUTQ
Qe	0.3–30 s	∿/⎓ 24 V	1 N/O + 1 N/C	8 A	RE8YA32BTQ
	0.3–30 s	∿ 110–240 V	1 N/O + 1 N/C	8 A	RE8YA32FUTQ
	0.3–30 s	∿ 380–415 V	1 N/O + 1 N/C	8 A	RE8YA32QTQ
Qg	0.05 s–300 h	∿/⎓ 24 V, ∿ 110–240 V, ∿/⎓ 42–48 V	1 N/O + 1 N/C	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	0.1–10 s	∿/⎓ 24 V	1 C/O contact	8 A	RE8PD11BTQ
	0.3–30 s			8 A	RE8PD31BTQ
	3–300 s			8 A	RE8PD21BTQ
	0.1–10 s	∿ 110–240 V	1 C/O contact	8 A	RE8PD11FUTQ
	0.3–30 s			8 A	RE8PD31FUTQ
	3–300 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

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Functions

U: Supply
R: Relay or solid state output
R1/R2: 2 timed outputs
R2 inst.: The second output can be configured to be instantaneous.
T: Timing period
C: Control contact
G: Gate
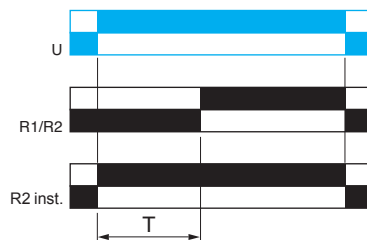**Ta**: Adjustable On-delay
Tr: Adjustable Off-delay

Function diagram :

☐ Relay de-energized
■ Relay energized
☐ Output open
■ Output closed
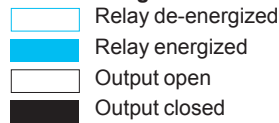
Function A: Delay on energization

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 outputs R close.
The second output can be either timed or instantaneous.

Function Ac: Timing after closing and opening of control contact
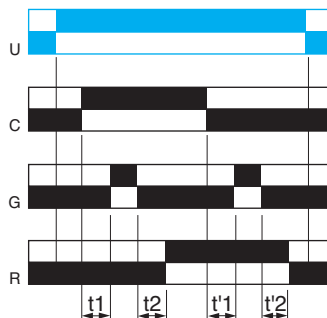
1 output

$T = t1 + t2 + …$
$T = t'1 + t'2 + …$

2 outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).
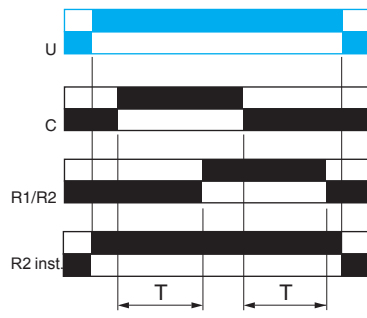
After power-up, closing of the control contact C causes the timing period T to start (timing can be interrupted by operating the Gate control contact G).
At the end of this timing period, the relay closes.
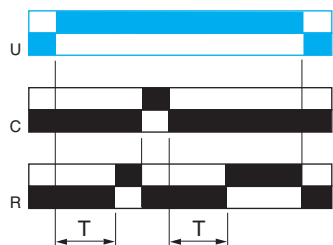When control contact C re-opens, the timing period T starts.
At the end of this timing period T, the outputs R revert to their initial position (timing can be interrupted by operating the Gate control contact G).
The second output can be either timed or instantaneous.

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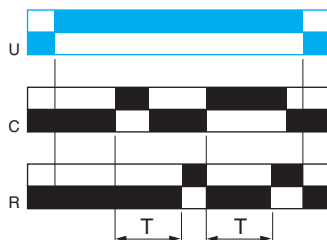
After power-up, pulsing or maintaining control contact C starts the timing period T.
At the end of this timing period T, the output R closes.
The output R will be reset the next time control contact C is pulsed or maintained.

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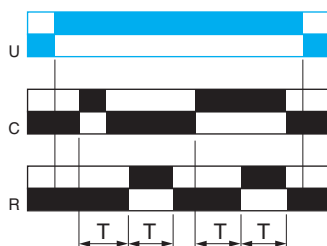
After power-up, pulsing or maintaining control contact C starts the timing period T.
A single cycle then starts with 2 timing periods T of equal duration (start with output in rest position).
Output R changes state at the end of the first timing period T and reverts to its initial position at the end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

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Functions (continued)

Function Ak: Asymmetrical On-delay and Off-delay with external control
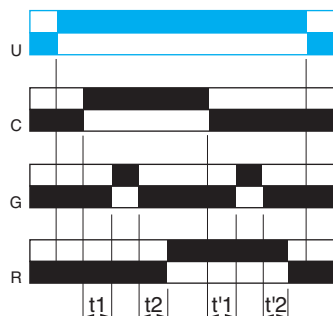
After power-up and closing of the control contact C, timing starts for a period Ta (timing can be interrupted by operating the Gate control contact G).
At the end of this timing period Ta, the output R closes.
Opening of control contact C causes a second timing period Tr to start (timing can be interrupted 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: Delay on energization with memory
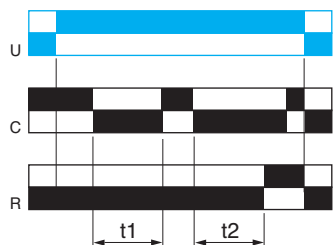
After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact C closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.

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 control contact C opens output R.
Opening control contact C restarts the timing period T.
At the end of the timing period T, the output R closes.

Function B: Timing on impulse, one shot
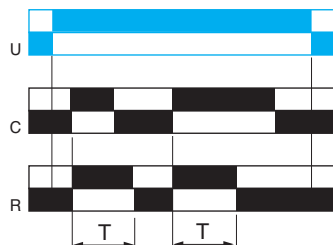
After power-up, pulsing or maintaining control contact C starts the timing period T. The output R closes for the duration of the timing period T, then reverts to its initial state.

Function Bw: Pulse output (width adjustable)
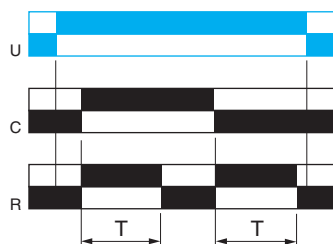
On closing and opening of control contact C, the output R closes for the duration of the timing period T.

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Function C: Timing after opening of control contact
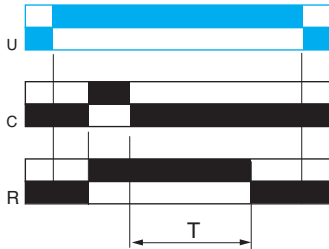
1 output	2 outputs
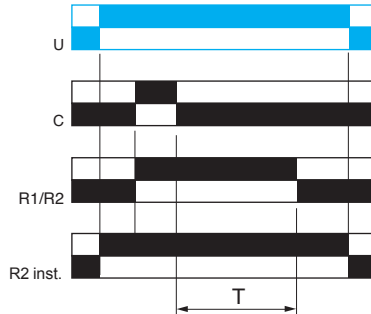
After power-up and closing of the control contact C, the outputs R close.
When control contact C re-opens, timing period T starts.
At the end of the timing period, the outputs R revert to their initial state.
The second output can be either timed or instantaneous.

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

Function D: Symmetrical flashing, start with output in rest position

1 output	2 outputs
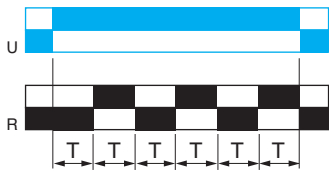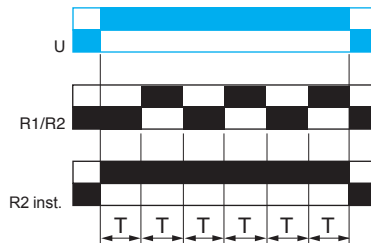
Repetitive cycle with two timing periods T of equal duration, with the outputs R changing their state at the end of each timing period T.
The second output can be either timed or instantaneous.

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

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

1 output	2 outputs
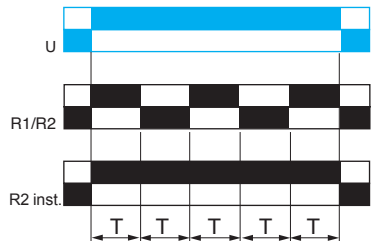
Repetitive cycle with two timing periods T of equal duration, with the outputs R changing their state at the end of each timing period T.
The second output can be either timed or instantaneous.

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

Function H: Timing on energization

1 output	2 outputs
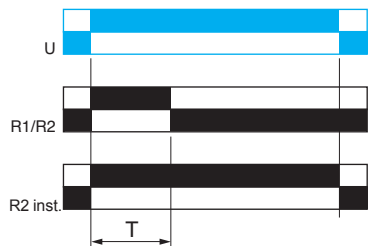
On energization of the relay, timing period T starts and the outputs R close.
At the end of the timing period T, outputs R revert to their initial state.
The second output can be either timed or instantaneous.

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

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Function He: Pulse on de-energization
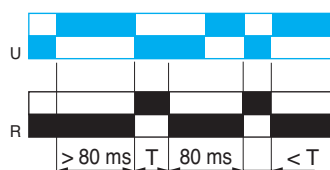
On de-energization, the output R closes for the duration of a timing period T.

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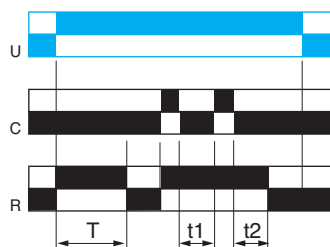
On energization, the output R closes for the duration of a timing period T, then reverts to its initial state.
Pulsing or maintaining control contact C will again close the output R.
Timing T is only active when control contact C is released and so the output R will not revert to its initial state until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

$T = t1 + t2 + \ldots$

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

1 output

2 outputs
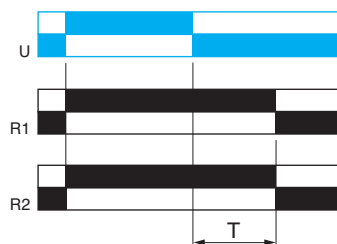
On energization, the outputs R close.
On de-energization, timing period T starts and, at the end of this period, the outputs R revert to their initial state.

Function L: Asymmetrical flashing, start with output in rest position
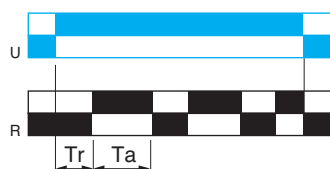
Repetitive cycle with two, independently adjustable timing periods Ta and Tr.
Each timing period corresponds to a different state of the output R.

Function Li: Asymmetrical flashing, start with output in operating position
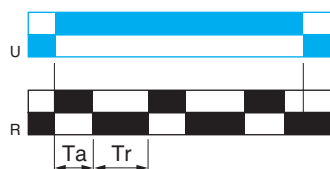
Repetitive cycle with two, independently adjustable timing periods Ta and Tr.
Each timing period corresponds to a different state of the output R.

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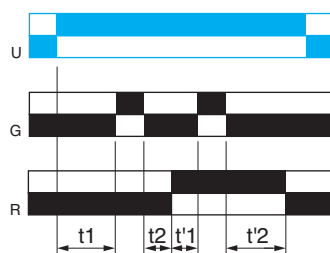
Repetitive cycle with two, independently adjustable timing periods Ta and Tr.
Each timing period corresponds to a different state of the output R.
Gate control contact G can be operated to partially stop timing periods Ta and Tr.

$Tr = t1 + t2 + \ldots$
$Ta = t'1 + t'2 + \ldots$

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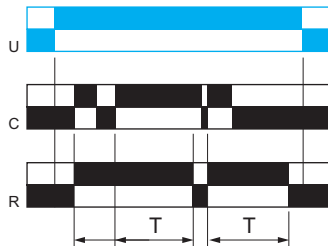
After power-up and an initial control pulse C, the output R closes.
If the interval between two control pulses C is greater than the set timing period T, timing elapses normally and the output R opens at the end of the timing period. If the interval is not greater than the set timing period, the output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

U
C
R

T   T

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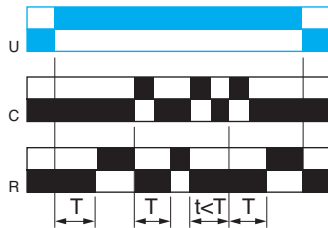
An initial timing period T begins on energization. At the end of this timing period, the output R closes.
As soon as there is a control pulse C, the output R reverts to its initial state and remains in that state until the interval between two control pulses is less than the value of the set timing period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

U
C
R

T   T   t<T   T

Function P: Delayed fixed-length pulse
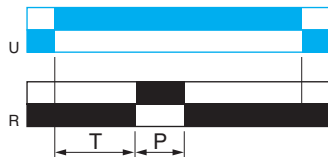
The timing period T starts on energization.
At the end of this period, the output R closes for a fixed time P.

U
R

T   P

P = 500 ms
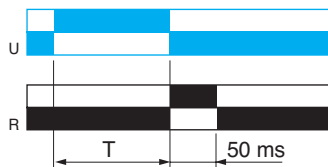
Function Pt: Impulse counter (On-delay)
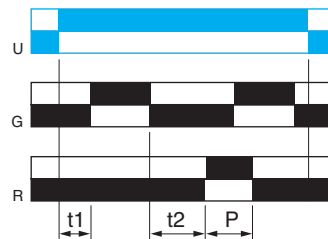
On energization, timing period T starts (it can be interrupted by operating the Gate control contact G).
At the end of this period, the output R closes for a fixed time P.

U
G
R

t1   t2   P

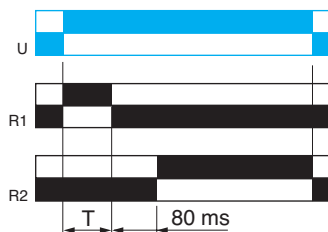T = t1 + t2 + …
P = 500 ms

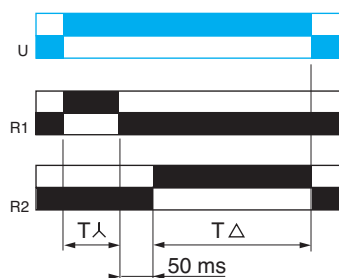**Function Qc: Star-delta timing**

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

U
R

T   50 ms

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 an 80 ms pause, the delta contact closes and remains in this position.

U
R1
R2

T   80 ms

Zelio® Timing Relays

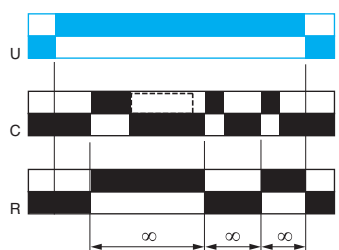## Function Qg: Star-delta timing

Timing for star delta starter with contact for switching to star connection.
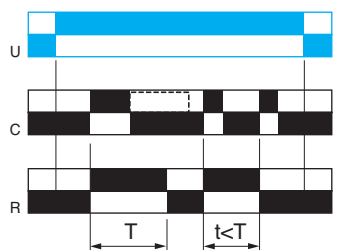
Function Qt: Star-delta timing
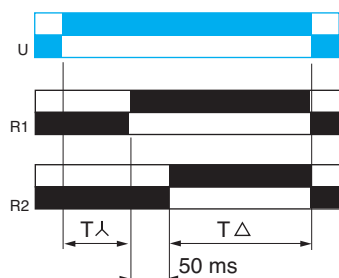
Timing for star-delta starter with double On-delay period.

Function T: Bistable relay

After power-up, pulsing or maintaining of control contact C turns on the output R.
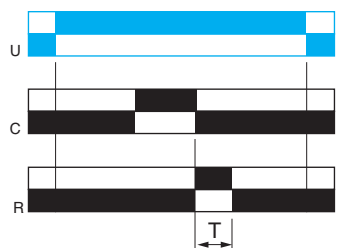A second pulse on the control contact C turns off the output R.
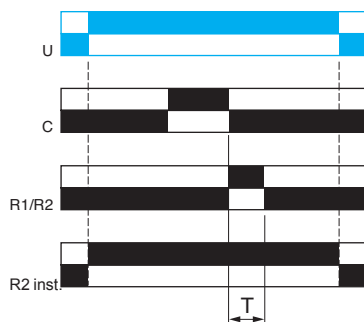
Function Tt: Timed impulse relay

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

Function W: On-delay after opening of control contact

1 output

2 outputs

After power-up and opening of the control contact, the outputs R close for a timing period T.
At the end of this timing period, the outputs revert to their initial state.
The second output can be either timed or instantaneous.

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

Zelio® Timing Relays
Modular relays with solid state or relay output,
width 17.5 mm (0.7 in.)

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

RE11LAMW   RE11LLBM

Modular relays with solid state output 0.7 A

Single function				
Timing ranges	**Functions**	**Voltages**	**Catalog number**	**Weight**
		V		**kg (lb)**
1 s, 10 s,	A	⌁ 24–240	**RE11LAMW**	0.060 (0.13)
1 min, 10 min,	H	∼ 24–240	**RE11LHBM**	0.060 (0.13)
1 h, 10 h, 100 h	C	∼ 24–240	**RE11LCBM**	0.060 (0.13)
Dual function				
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	L, Li	∼ 24–240	**RE11LLBM**	0.060 (0.13)
Multifunction				
1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, D, Di, Ac, Bw	∼ 24–240	**RE11LMBM**	0.060 (0.13)

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

RE11R●M●

Modular relays with relay output, 1 C/O contact

Single function				
Timing ranges	**Functions**	**Voltages**	**Catalog number**	**Weight**
		V		**kg (lb)**
1 s, 10 s,	B	⌁ 24–240	**RE11RBMU**	0.060 (0.13)
1 min, 10 min, 1 h, 10 h, 100 h	C	⌁ 24–240	**RE11RCMU**	0.060 (0.13)
Dual function				
1 s, 10 s,	A, At	⌁ 24–240	**RE11RAMU**	0.060 (0.13)
1 min, 10 min,	H, Ht	⌁ 24–240	**RE11RHMU**	0.060 (0.13)
1 h, 10 h, 100 h	L, Li	⌁ 24–240	**RE11RLMU**	0.060 (0.13)
		⌁ 12	**RE11RLJU**	0.060 (0.13)
Multifunction				
1 s, 10 s,	A, At,	⌁ 12	**RE11RMJU**	0.060 (0.13)
1 min, 10 min,	B, C,	⌁ 24–240	**RE11RMMU**	0.060 (0.13)
1 h, 10 h, 100 h	H, Ht,	⌁ 12–240	**RE11RMMW**	0.060 (0.13)
	D, Di, Ac, Bw		**RE11RMMWS**	0.060 (0.13)
	Ad, Ah, N, O, P, Pt, T, Tt, W	⌁ 24–240	**RE11RMXMU**	0.060 (0.13)
1 s, 10 s, 1 min 10 min, 1 h, 10 h	A, At, B, C, H, Ht, D, Di	⌁ 24–240	**RE11RMEMU**	0.060 (0.13)

*NOTE: Detailed function descriptions begin on page 10.
Dimensions and wiring diagrams begin on page 26.*

Schneider Electric

Zelio® Timing Relays
Industrial single or multifunction relays,
solid state output, width 22.5 mm (0.9 in.)

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

RE9●A●1MW

RE9MS21MW

Catalog numbers

Single function

Timing ranges	Functions	Voltages	Catalog number	Weight
		V		kg (lb)
0.1–10 s	A	⎓ 24–240 V	**RE9TA11MW**	0.110 (0.24)
	C	⎓ 24–240 V	**RE9RA11MW7**	0.110 (0.24)
0.3–30 s	A	⎓ 24–240 V	**RE9TA31MW**	0.110 (0.24)
	C	⎓ 24–240 V	**RE9RA31MW7**	0.110 (0.24)
3–300 s	A	⎓ 24–240 V	**RE9TA21MW**	0.110 (0.24)
	C	⎓ 24–240 V	**RE9RA21MW7**	0.110 (0.24)
40 s–60 min	A	⎓ 24–240 V	**RE9TA51MW**	0.110 (0.24)
	C	⎓ 24–240 V	**RE9RA51MW7**	0.110 (0.24)

Multifunction

Timing ranges	Functions	Voltages	Catalog number	Weight
0.1–10 s, 0.3–30 s	A	⎓ 24–240 V	**RE9MS21MW**	0.110 (0.24)
	H, D, Di	∿ 24–240 V		

NOTE: Detailed function descriptions begin on page 10.
Dimensions and wiring diagrams begin on page 26.

Zelio® Timing Relays
Industrial single, dual, or multifunction relays, relay output, width 22.5 mm (0.9 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

RE88865125

RE88865155

Catalog numbers

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	Weight
			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 (0.20)
	C	1	∿ 24–240	**RE88865135** *(1)*	0.090 (0.20)
0.6 s, 2.5 s, 20 s, 160 s	K	2	∿ 24–240	**RE88865265** *(1)*	0.090 (0.20)

Selectable interswitching time	Functions	No. of relay outputs	Voltages	Catalog number	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 (0.20)
			∼ 230 / 380	**RE88865176** *(1)*	0.090 (0.20)

Dual function

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	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 (0.20)
		1	∿ 24–240	**RE88865115** *(1)*	0.090 (0.20)
	H, Ht	1	∿ 24–240	**RE88865145** *(1)*	0.090 (0.20)
	L, Li	1	∿ 24–240	**RE88865155** *(1)*	0.090 (0.20)

Multifunction

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	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	1	∿ 24–240	**RE88865105** *(1)*	0.090 (0.20)
		1	∿ 12	**RE88865100** *(1)*	0.090 (0.20)
		1	∿ 12–240	**RE88865103** *(1)*	0.090 (0.20)
				RE88865503 *(2)*	0.090 (0.20)
		2, of which 1 is convertible to instantaneous	∿ 24–240	**RE88865305** *(1)*	0.090 (0.20)
			∿ 12	**RE88865300** *(1)*	0.090 (0.20)
			∿ 12–240	**RE88865303** *(1)*	0.090 (0.20)
	Ad, Ah, N, O, P, Pt, Tl, Tt, W	1	∿ 24–240	**RE88865185** *(1)*	0.090 (0.20)
		2	∿ 24–240	**RE88865385** *(1)*	0.090 (0.20)

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

NOTE: Detailed function descriptions begin on page 10.
Dimensions and wiring diagrams begin on page 26.

Schneider Electric

Zelio® Timing Relays
Industrial single, dual, or multifunction relays, relay output, width 22.5 mm (0.9 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*

RE7TM11BU

RE7MA11BU

RE7CV11BU

Catalog numbers

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	Weight
			V		kg (lb)
0.05 s–300 h (10 ranges)	A, Aw, At	1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7TM11BU**	0.150 (0.33)
	Ac	1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7MA11BU**	0.150 (0.33)
		2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7MA13BU** *(symmetrical)*	0.150 (0.33)
	Ak	1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7MV11BU**	0.150 (0.33)
	C	1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7RA11BU**	0.150 (0.33)
		1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7RM11BU** *(low level contact)*	0.150 (0.33)
		2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7RL13BU** *(low level contact)*	0.150 (0.33)
	Ht, W	1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7PM11BU**	0.150 (0.33)
	L, Li, Lt	1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7CV11BU**	0.150 (0.33)
	A, C, H, W, D, Di	1	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7ML11BU**	0.150 (0.33)
	A	1	⎓ 24, ∼ 110…240	**RE7TL11BU**	0.150 (0.33)
		2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7TP13BU**	0.150 (0.33)
	H	1	⎓ 24, ∼ 110–240	**RE7PE11BU**	0.150 (0.33)
		2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7PP13BU**	0.150 (0.33)
	D	1	⎓ 24, ∼ 110–240	**RE7CL11BU**	0.150 (0.33)
		2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7CP13BU**	0.150 (0.33)
	W	2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7PD13BU**	0.150 (0.33)
	Qt	2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7YA12BU**	0.150 (0.33)
	Qg	2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7YR12BU**	0.150 (0.33)
	A, C, H, W, D, Di, Qg, Qt	2	⎓ 24, ∼ 110–240, ⎓ 42–48	**RE7MY13BU**	0.150 (0.33)
		2	⎓ 24–240	**RE7MY13MW**	0.150 (0.33)
0.05 s–10 min (7 ranges)	K	1	⎓ 24–240	**RE7RB11MW**	0.150 (0.33)
		2	⎓ 24–240	**RE7RB13MW**	0.150 (0.33)

NOTE: Detailed function descriptions begin on page 10.

Schneider Electric

Zelio® Timing Relays
Industrial single function relays, optimum,
relay output, width 22.5 mm (0.9 in.)

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

RE8TA●●●●●●

Catalog numbers

Timing ranges	Functions	Voltages	Catalog number	Weight
		V	(1)	kg (lb)
0.05–0.5 s	K	⌁ 24, ∼ 110–240	**RE8RB51BUTQ**	0.110 (0.24)
	He	⌁ 24, ∼ 110–240	**RE8PT01BUTQ**	0.110 (0.24)
0.1–3 s	A	⌁ 24, ∼ 110–240	**RE8TA61BUTQ**	0.110 (0.24)
0.1–10 s	A	⌁ 24, ∼ 110–240	**RE8TA11BUTQ**	0.110 (0.24)
	C	⌁ 24	**RE8RA11BTQ**	0.110 (0.24)
		∼ 110–240	**RE8RA11FUTQ**	0.110 (0.24)
	D	⌁ 24, ∼ 110–240	**RE8CL11BUTQ**	0.110 (0.24)
	K	⌁ 24, ∼ 110–240	**RE8RB11BUTQ**	0.110 (0.24)
	H	⌁ 24, ∼ 110–240	**RE8PE11BUTQ**	0.110 (0.24)
	Qc	⌁ 24, ∼ 110–240	**RE8YG11BUTQ**	0.110 (0.24)
	W	⌁ 24	**RE8PD11BTQ**	0.110 (0.24)
		∼ 110–240	**RE8PD11FUTQ**	0.110 (0.24)
0.3–30 s	A	⌁ 24, ∼ 110–240	**RE8TA31BUTQ**	0.110 (0.24)
	C	⌁ 24	**RE8RA31BTQ**	0.110 (0.24)
		∼ 110–240	**RE8RA31FUTQ**	0.110 (0.24)
	H	⌁ 24, ∼ 110–240	**RE8PE31BUTQ**	0.110 (0.24)
	K	⌁ 24, ∼ 110–240	**RE8RB31BUTQ**	0.110 (0.24)
	Qc	⌁ 24, ∼ 110–240	**RE8YG31BUTQ**	0.110 (0.24)
	Qe	⌁ 24	**RE8YA32BTQ**	0.110 (0.24)
		∼ 110–240	**RE8YA32FUTQ**	0.110 (0.24)
		∼ 380–415	**RE8YA32QTQ**	0.110 (0.24)
	W	⌁ 24	**RE8PD31BTQ**	0.110 (0.24)
		∼ 110–240	**RE8PD31FUTQ**	0.110 (0.24)
3–300 s	A	⌁ 24, ∼ 110–240	**RE8TA21BUTQ**	0.110 (0.24)
	C	⌁ 24	**RE8RA21BTQ**	0.110 (0.24)
		∼ 110–240	**RE8RA21FUTQ**	0.110 (0.24)
	H	⌁ 24, ∼ 110–240	**RE8PE21BUTQ**	0.110 (0.24)
	Qc	⌁ 24, ∼ 110–240	**RE8YG21BUTQ**	0.110 (0.24)
	W	⌁ 24	**RE8PD21BTQ**	0.110 (0.24)
		∼ 110–240	**RE8PD21FUTQ**	0.110 (0.24)
20 s–30 min	A	⌁ 24, ∼ 110–240	**RE8TA41BUTQ**	0.110 (0.24)
	C	∼ 110–240	**RE8RA41FUTQ**	0.110 (0.24)

(1) These products are sold in packs of 10

NOTE: *Detailed function descriptions begin on page 10.*
Dimensions and wiring diagrams begin on page 26.

Schneider Electric

Zelio® Timing Relays
Universal plug-in relays, 11-pin,
relay output, width 35 mm (1.4 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*

RE88867415

RE88867305

RE88867300

Catalog numbers

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	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 (0.18)

Dual function

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	Weight
1 s, **10 s,** **1 min,** **10 min,** **1 h,** **10 h,** **100 h**	**A,** **At**	2	⎓⏦ 24–240	**RE88867415**	0.080 (0.18)
	Li, **L**	2	⎓⏦ 24–240	**RE88867455**	0.080 (0.18)

Multifunction

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	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 is instantaneous	⎓⏦ 24–240	**RE88867305**	0.080 (0.18)
			⎓⏦ 12	**RE88867300**	0.080 (0.18)
			⎓⏦ 12–240	**RE88867303**	0.080 (0.18)

Sockets (1) for 11-pin relays

Contact terminal arrangement	For use with relays	Connection	Catalog number	Weight
				kg (lb)
Mixed *(2)*	RE88867●●●	Connector	**RXZE2M114**	0.054 (0.12)

(1) These products are sold in packs of 10
(2) The inputs are mixed with the relay's supply. The outputs are located on the opposite side of the socket.

NOTE: Detailed function descriptions begin on page 10.
Dimensions and wiring diagrams begin on page 26.

Zelio® Timing Relays
Universal plug-in relays, 8-pin,
relay output, width 35 mm (1.4 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*

RE88867215

RE88867155

RE88867105

Catalog numbers

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	Weight
			V		**kg (lb)**
1 s, **10 s ,** **1 min,** **10 min,** **1 h,**	**A**	2	∼ 24–240	**RE88867215**	0.080 (0.18)
10 h, **100 h**	**C**	1	∼ 24–240	**RE88867135**	0.080 (0.18)

Dual function

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	Weight
1 s, **10 s,** **1 min,** **10 min,** **1 h,** **10 h,** **100 h**	**Li,** **L**	1	∼ 24–240	**RE88867155**	0.080 (0.18)

Multifunction

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	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**	1	∼ 24–240	**RE88867105**	0.080 (0.18)
			∼ 12	**RE88867100**	0.080 (0.18)
			∼ 12–240	**RE88867103**	0.080 (0.18)

Sockets (1) for 8-pin relays

Contact terminal arrangement	For use with relays	Catalog number	Weight
			kg (lb)
Mixed *(2)*	RE888671●●, RE888672●●	**RUZC2M**	0.054 (0.12)

(1) These products are sold in packs of 10.
(2) The inputs are mixed with the relay's supply. The outputs are located on the opposite side of the socket.

NOTE: *Detailed function descriptions begin on page 10.*
Dimensions and wiring diagrams begin on page 26.

Schneider Electric

Zelio® 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)*
- *Single function: function A = delay on energization*
- *Rated current ∿ 5 A*
- *7 timing ranges (0.1 s to 100 h)*
- *Multivoltage*
- *Excellent immunity to interference*
- *Power on and relay energized indication by 2 LEDs*

REXL2TM●●

REXL4TM●●

Catalog numbers

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Catalog number	Weight
			V		**kg (lb)**
0.1–1 s, 1–10 s, 0.1–1 min, 1–10 min, 0.1–1 h, 1–10 h, 10–100 h (7 switchable ranges)	A	2	⎓ 12	**REXL2TMJD**	0.050 (0.11)
			⎓ 24	**REXL2TMBD**	0.050 (0.11)
			∿ 24 (50/60 Hz)	**REXL2TMB7**	0.050 (0.11)
			∿ 120 (50/60 Hz)	**REXL2TMF7**	0.050 (0.11)
			∿ 230 (50/60 Hz)	**REXL2TMP7**	0.050 (0.11)
		4	⎓ 12	**REXL4TMJD**	0.050 (0.11)
			⎓ 24 *(1)*	**REXL4TMBD**	0.050 (0.11)
			∿ 24 (50/60 Hz) *(1)*	**REXL4TMB7**	0.050 (0.11)
			∿ 120 (50/60 Hz)	**REXL4TMF7**	0.050 (0.11)
			∿ 230 (50/60 Hz)	**REXL4TMP7**	0.050 (0.11)

Sockets *(2)* for relays

Contact terminal arrangement	For use with relays	Connection	Catalog number	Weight
				kg (lb)
Mixed *(3)*	REXL2TM●●, REXL4TM●●	Screw clamp	**RXZE2M114** *(5)*	0.048 (0.11)
	REXL2TM●●, REXL4TM●●	Connector	**RXZE2M114M** *(6)*	0.056 (0.12)
Separate *(4)*	REXL2TM●●	Connector	**RXZES108M**	0.070 (0.15)
	REXL4TM●●	Connector	**RXZE2S114M**	0.058 (0.13)

(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 packs of 10.
(3) The inputs are mixed with the relay's supply. The outputs are 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® 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*

RE48ATM12MW

RE48AMH13MW

Catalog numbers

8-pin relay

Timing ranges	Function	No. of relay outputs	Voltages	Catalog number	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 (0.31)
	A1, A2, H1, H2	2, of which 1 is instantaneous	∼⎓ 24–240	**RE48AMH13MW**	0.140 (0.31)

11-pin relay

Timing ranges	Function	No. of relay outputs	Voltages	Catalog number	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 (0.31)
	A, B, C, Di	2	∼⎓ 24–240	**RE48AML12MW**	0.140 (0.31)

Schneider Electric

Zelio® Timing Relays
Analog, electronic relays,
relay output, 48 x 48

RUZC3M

RE48ASOC11AR

RE48ASOC8SOLD   RE48ASOC11SOLD

RE48ASETCOV   RE48AIPCOV

Sockets					
Description	**Number of pins**	**For use with relays**	**Sold in packs of**	**Catalog number**	**Weight kg (lb)**
IP20 sockets with connection by connector and mixed contact terminals *(1)*	8	RE48ATM12MW, RE48AMH13MW	**10**	**RUZC2M**	0.054 (0.12)
	11	RE48ACV12MW, RE48AML12MW	**10**	**RUZC3M**	0.054 (0.12)
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. The outputs are located on the opposite side of the socket.

Schneider Electric

Zelio® Timing Relays
Modular relays with solid state or relay output,
width 17.5 mm (0.7 in.)

Dimensions and terminal locations for RE11 models

RE11RAMU, RE11RHMU, RE11RLMU

2.83
(72)

0.21
(5.5)

0.70
(17.9)

3.19
(81)

A1 15 Y1

18 16 A2
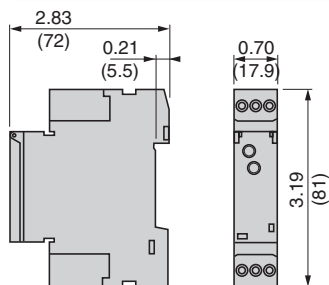
Dual dimensions = $\frac{in.}{mm}$

RE11RMMU, RE11RMMW, RE11RMJU   RE11RMMWS

2.83
(72)

0.21
(5.5)

0.70
(17.9)

31.9
(81)

2.83
(72)

0.21
(5.5)

0.70
(17.9)

31.9
(81)

A1 15 Y1

18 16 A2
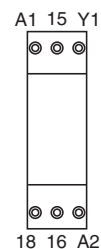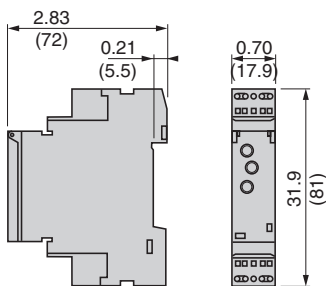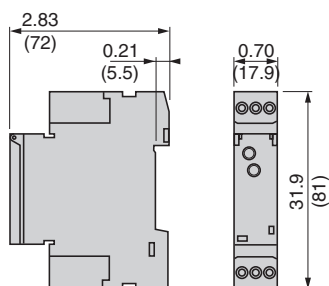
RE11LAMW, RE11LHBM, RE11LCBM, RE11LLBM, RE11LMBM

2.83
(72)

0.21
(5.5)

0.70
(17.9)

3.19
(81)

A1

A2/L

RE11LAMW
RE11LHBM

A1 Y2

L   A2 A2

RE11LCBM

A1 Y1

18 A2 A2

RE11LLBM
RE11LMBM

Zelio® Timing Relays
Modular relays with solid state or relay output,
width 17.5 mm (0.7 in.)
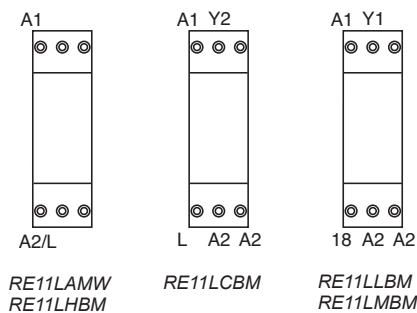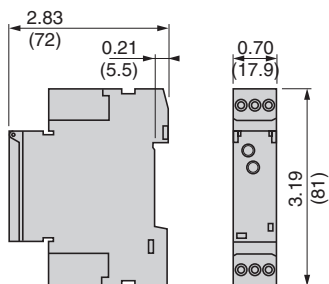
Wiring connection diagrams for RE11 models
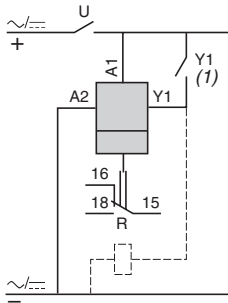
Contact Y1:
Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, Tl, Tt
Partial stop for functions At, Ht, and Pt
Function D if Di selected
Not used for functions A, H, and P
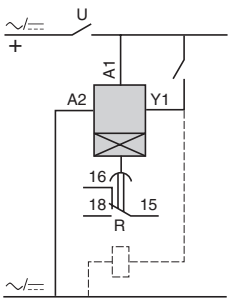
Functions A and At	Functions H and Ht	Functions L and Li	Functions B and C
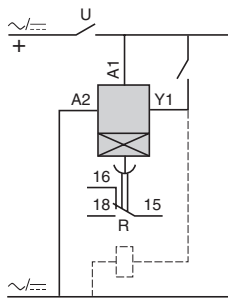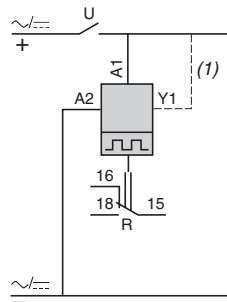
(1) Jumper A1-Y1 for function L only
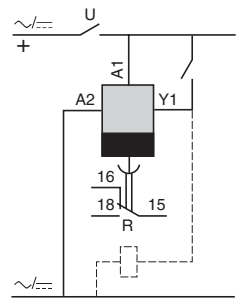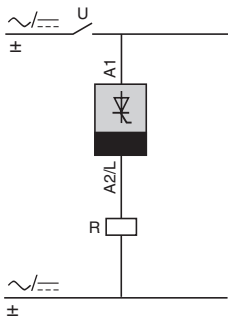
Single function relay		Multi-function relay	Flasher
Functions A and H	Function C		Functions L and Li
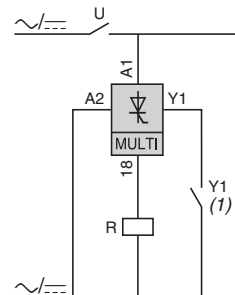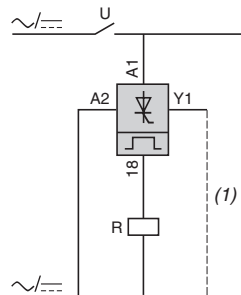
Contact Y1:
- Control for functions B, C, Ac, Bw
- Partial stop for functions At, Ht
- Function D if Di selected
- Not used for functions A and H

Zelio® Timing Relays

Industrial single or multifunction relays, relay or solid-state output, width 22.5 mm (0.9 in.)

## Dimensions and terminal locations for RE7, RE8, and RE9 models

RE7	RE8	RE9

Dual dimensions = $\dfrac{\text{in.}}{\text{mm}}$

Rail mounting

RE7	RE8	RE9

Direct panel mounting

RE7	RE8	RE9

Schneider Electric

Zelio® Timing Relays
Industrial single or multifunction relays, relay or solid-state output, width 22.5 mm (0.9 in.)
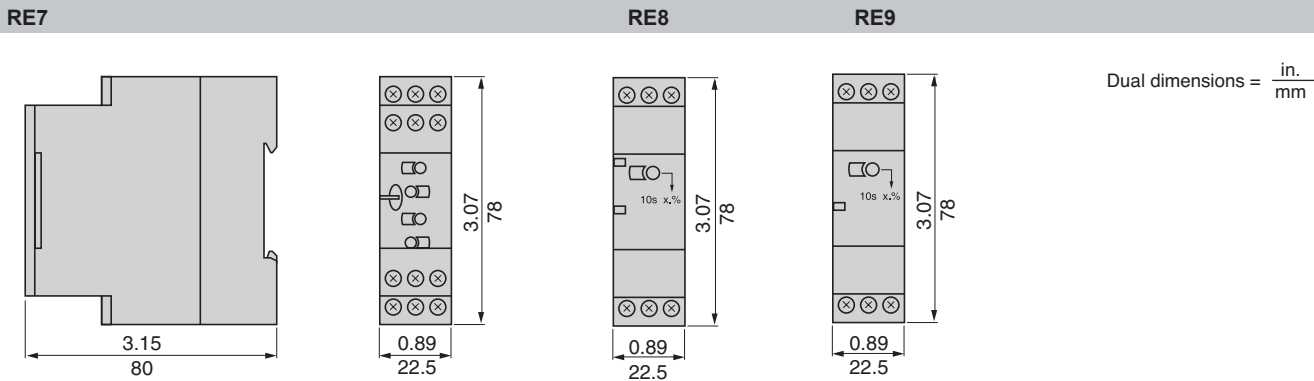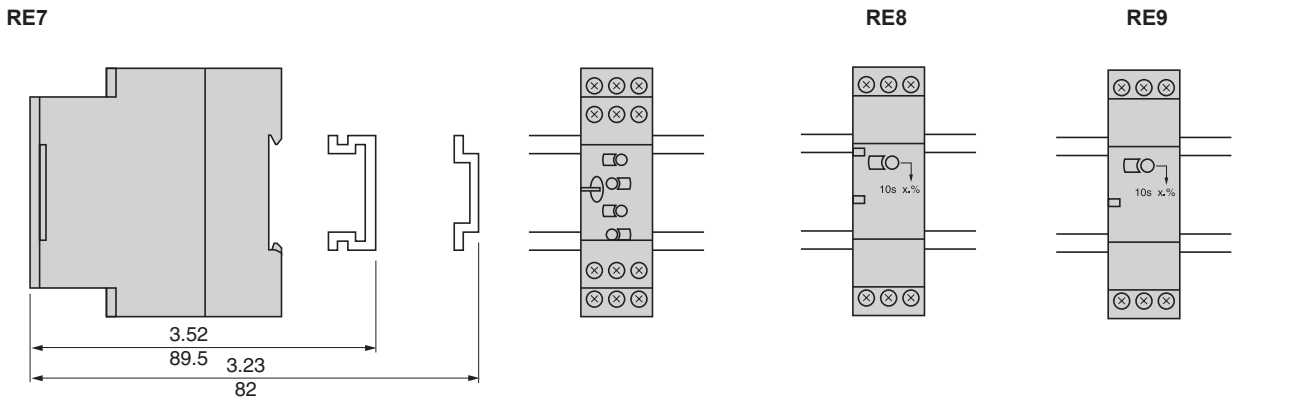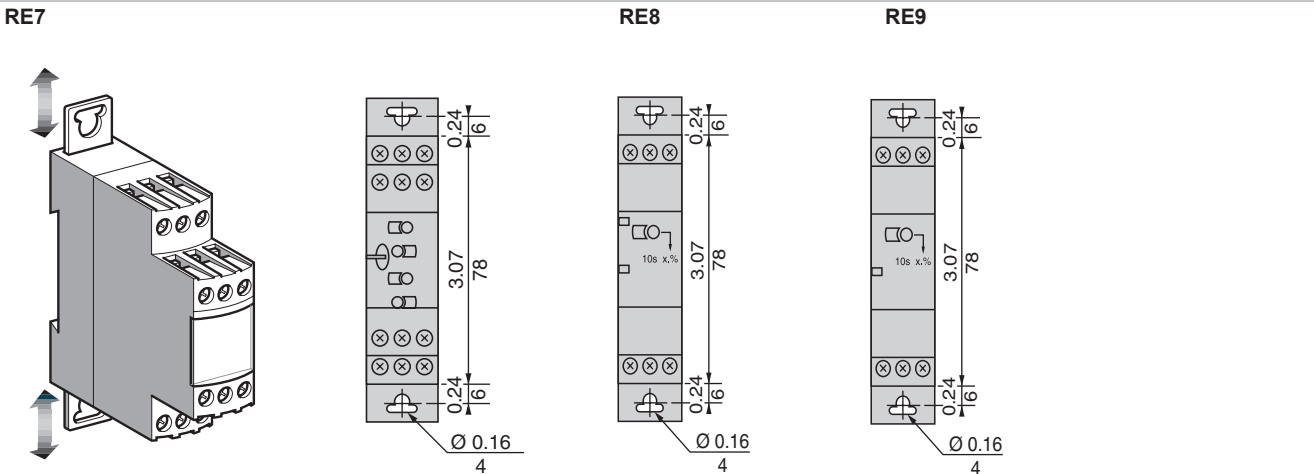
Wiring connection diagrams for RE7 models: Industrial multi-function timers

RE7ML11BU

A1	15	B1
Z1		B2

X1	Y1	Z2
18	16	A2

RE7MY13BU

A1	15	B1
Z1	25 (21)	Y1

28 (24)	26 (22)	Z2
18	16	A2

RE7MY13MW

A1	15	Y1
Z1	25 (21)	X1

28 (24)	26 (22)	Z2
18	16	A2
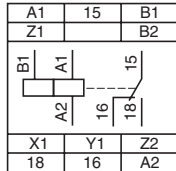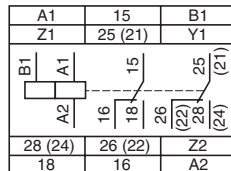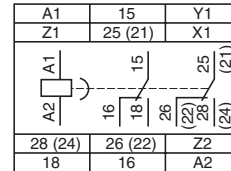
Recommended wiring diagrams

Start on energization
RE7ML11BU, RE7MY13BU, or *RE7MY13MW*
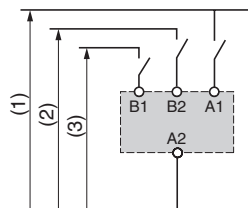
Start by external control
RE7ML11BU, RE7MY13BU, or *RE7MY13MW*
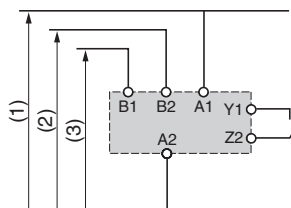
External control of partial stop
RE7ML11BU or *RE7MY13MW*
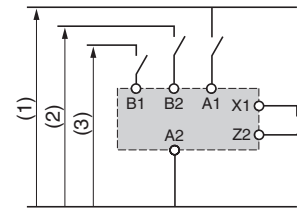
(1) 110-240 Vac: *RE7ML11BU* or *RE7MY13BU*; 24-240 Vdc or Vac: *RE7MY13MW*
(2) 42-48 Vac or Vdc: *RE7ML11BU*
(3) 24 Vac or Vdc: *RE7ML11BU* or *RE7MY13BU*

Potentiometer wiring

RE7ML11BU, RE7MY13BU, or *RE7MY13MW*
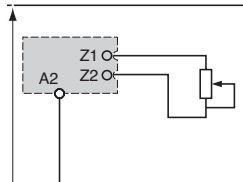
Wiring precautions
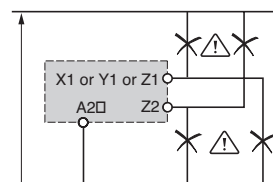
⚠ No electrical insulation between supply terminals A1, A2, B1, B2 and control inputs X1, Y1, Z1, Z2.

Zelio® Timing Relays
Industrial single or multifunction relays, relay or
solid-state output, width 22.5 mm (0.9 in.)

Wiring connection diagrams for RE8 models: Industrial single-function relay output timers

RE8TA, CL
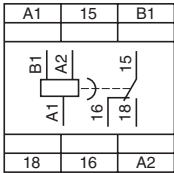
RE8RA
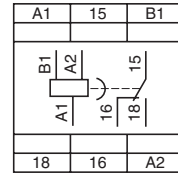
RE8RB
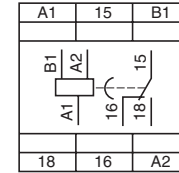
Recommended wiring diagrams

RE8TA, RB, CL
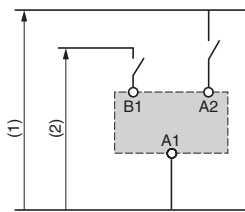
RE8RA
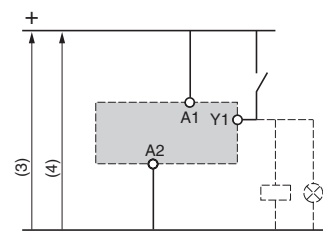
(1) 110-240 Vac   (2) 24 Vdc or Vac   (3) 24 Vdc   (4) 24 Vac or 110-240 Vac
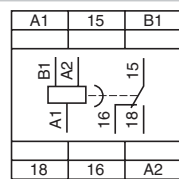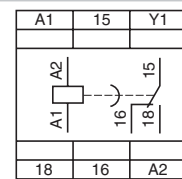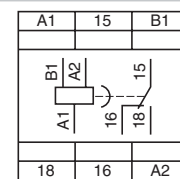
RE8TPE   RE8PD   RE8PT   RE8YA   RE8YG
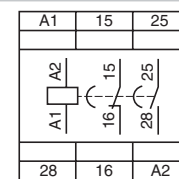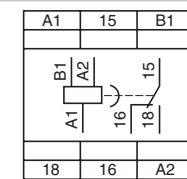
Recommended wiring diagrams - interval timers

RE8PE
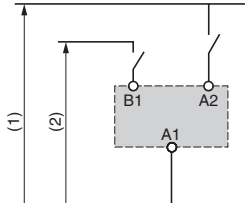
RE8PD
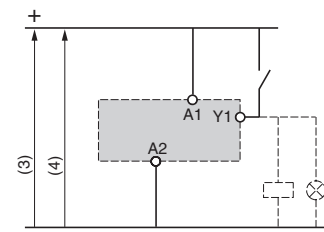
(1) 110-240 Vac   (2) 24 Vdc or Vac   (3) 24 Vdc   (4) 24 Vac or 110-240 Vac

Recommended wiring diagrams - timers for star-delta starters

RE8YG, RE8YA
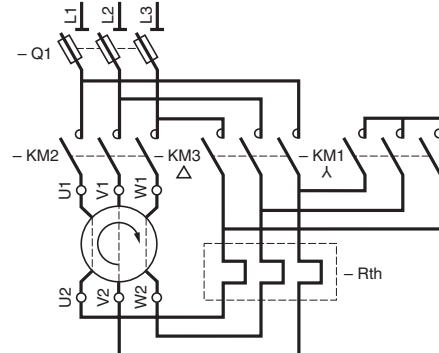
RE8YG
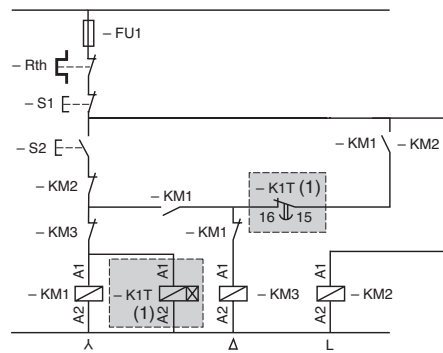
(1) K1T: RE8YG●1●●TQ

RE8YA
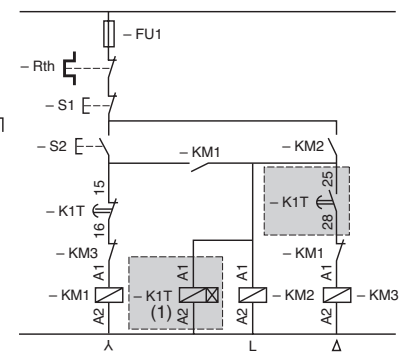
(1) K1T: RE8YA32●●TQ

NOTE: Correct operation of the star-delta starter associated with the RE8YG is only possible if the wiring diagram is strictly followed.

Schneider
Electric

Zelio® Timing Relays

Industrial or optimum, single or multifunction relays, relay or solid-state output, width 22.5 mm (0.9 in.)

Control of several RE8 single-function relay output timers with a single external control contact

RE8RA, PD
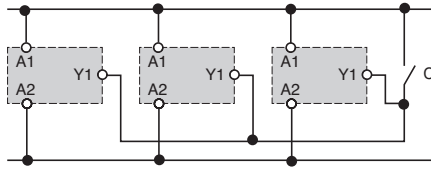
The external control contact C may be an electronic control device, for example, a 2-wire sensor. In this case, A1 - A2 = 24 Vdc and the control device can only control up to a maximum of 4 timers.

Connection of Telemecanique 2-wire VDC sensor

Leakage current (open state) if < 1 mA
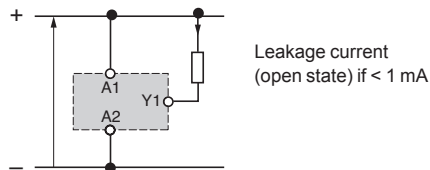
Wiring connection diagrams for RE9 models

RE9MS

On-delay ✉

Supply Vac or Vdc

Interval ⊓✉

Supply Vac
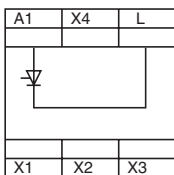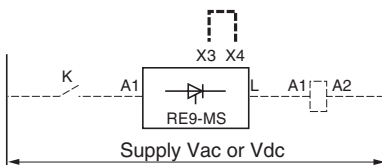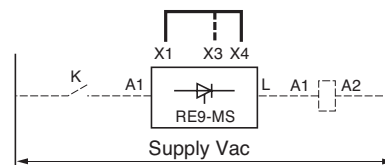
Jumper to be made between terminals X1 and X4

Selection of timing range: X3-X4 not jumpered: range 3-300 s (factory configuration)
X3-X4 jumpered: range 0.1-10 s

Repeat cycle ⊓✉

Start on energization of the load

Supply Vac

Repeat cycle ⊓▬

Start on de-energization of the load
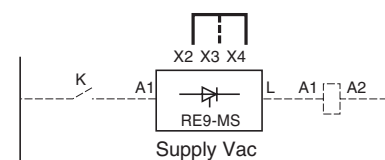
Supply Vac

- - - - - May need to be jumpered.
───── Must be jumpered

Jumper to be made between terminals X2 and X4 on one side and X1 and X2 on the other side.

Jumper to be made between terminals X2 and X4.

NOTE: For supply voltages greater than 30 V, the rated voltage of the load is equal to the supply voltage. For a supply voltage of 24 V, the voltage drop in the RE9 timer must be taken into account (about 3 V); select a coil with a nominal voltage of 21 V for the load.

Zelio® Timing Relays
Industrial single, dual, or multifunction relays,
relay output, width 22.5 mm (0.9 in.)

Dimensions and terminal locations for RE88865 models

Function Q

Dual dimensions = $\frac{in.}{mm}$
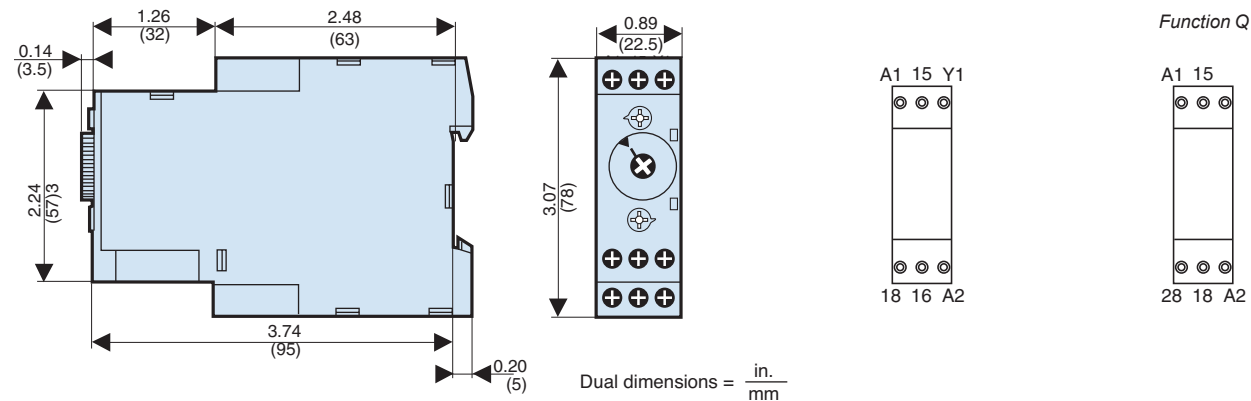
Wiring connection diagrams for RE88865 models

All functions except L and Li
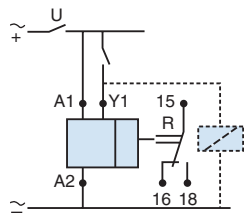
Functions L and Li
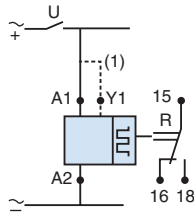
(1) Jumper A1-Y1 for function L only

All functions except K

Function K

Function Q

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Zelio® Timing Relays
Miniature plug-in relays, relay output
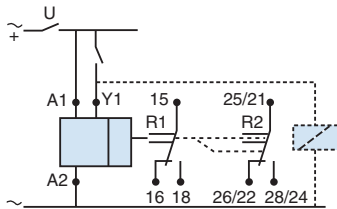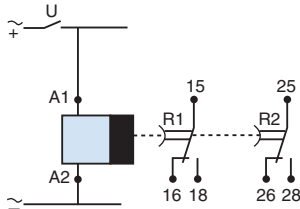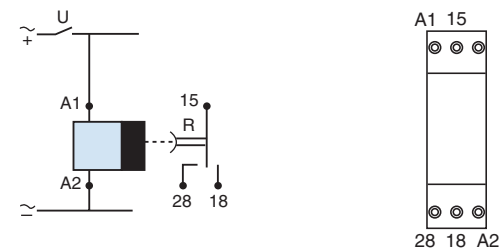
Dimensions and terminal locations for REXL models

Approximate dimensions

REXL4TM●●
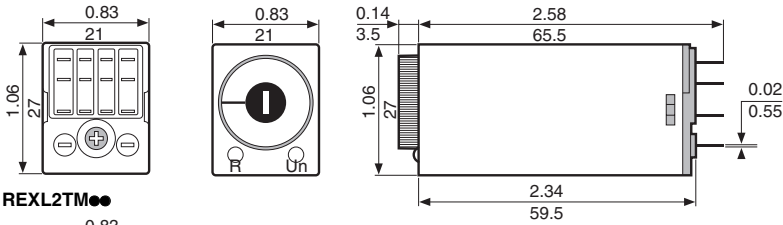
REXL2TM●●
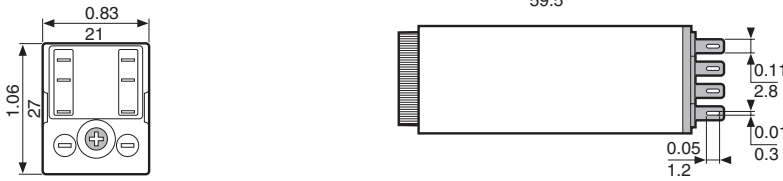
Dual dimensions = $\dfrac{\text{in.}}{\text{mm}}$

Terminal locations

REXL4TM●●
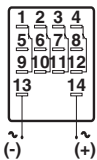
REXL2TM●●
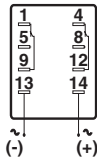
Wiring connection diagrams for REXL models

Timer with 4 C/O contacts
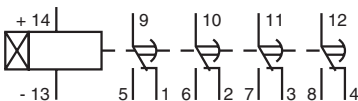
Timer with 2 C/O contacts

Zelio® Timing Relays
Universal plug-in relays, 8-pin or 11-pin,
relay output, width 35 mm (1.4 in.)
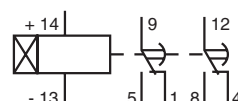
Dimensions and terminal locations for RE88867 plug-in timers (8-pin, relay output)

Approximate dimensions

Dual dimensions = $\frac{in.}{mm}$
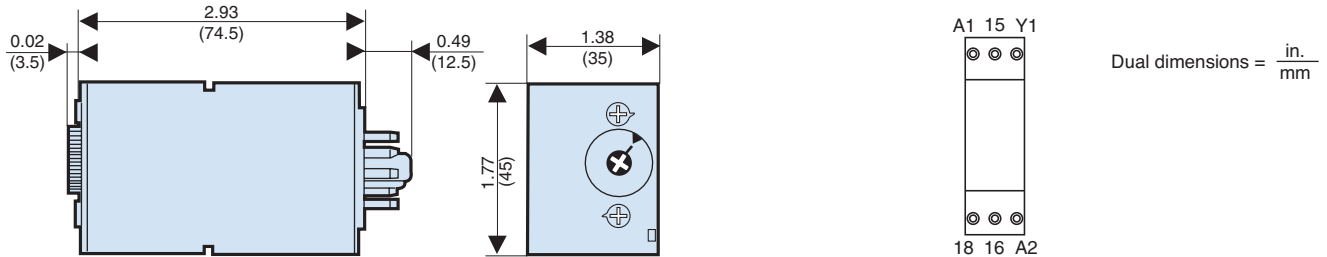
Dimensions and terminal locations for RE88867 plug-in timers (11-pin, relay output)
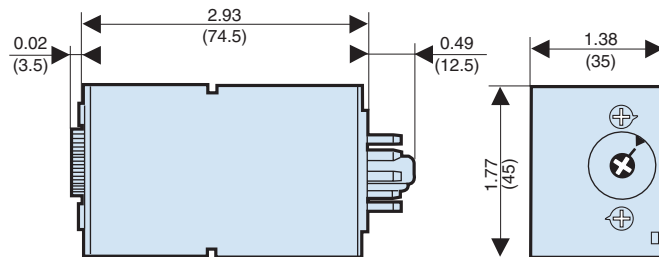
Wiring connection diagrams for RE88867 plug-in timers (8-pin, relay output)

Timing relays with 1 relay output All functions except L and Li	Functions L and Li	Timing relays with 2 relay outputs Function A
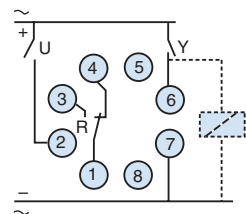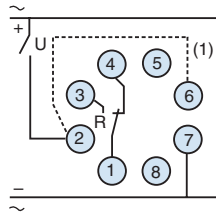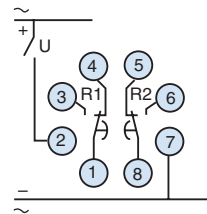
(1) Jumper between pins 2 and 6 for function L only

Wiring connection diagrams for RE88867 plug-in timers (11-pin, relay output)
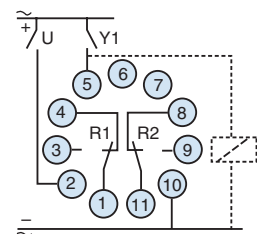
All functions except L and Li	Functions L and Li
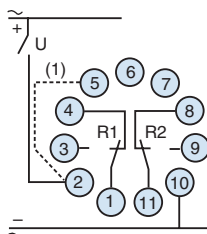
(1) Jumper between pins 2 and 5 for function L only

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Zelio® Timing Relays
Analog, electronic relays,
relay output, 48 x 48

Dimensions for RE48 models

Approximate dimensions

RE48A••1•MW

Dual dimensions = in./mm
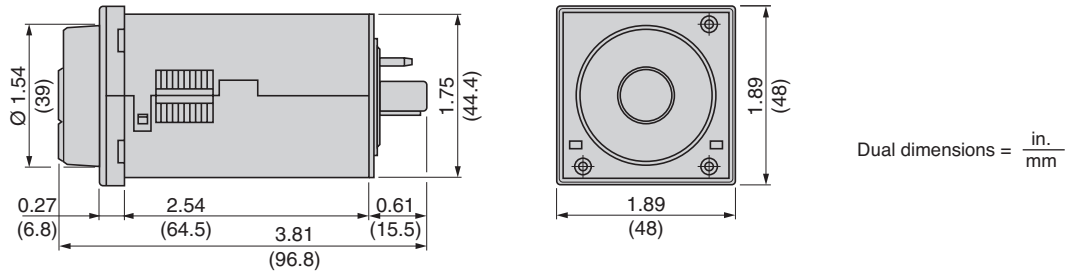
8-pin socket

8501NR51   *8501NR52*

Terminal screws M3.5 x .6

Terminal screws M3.5 x 7

11-pin socket

8501NR61   *8501NR62*

Terminal screws 6-32 x 5/16"
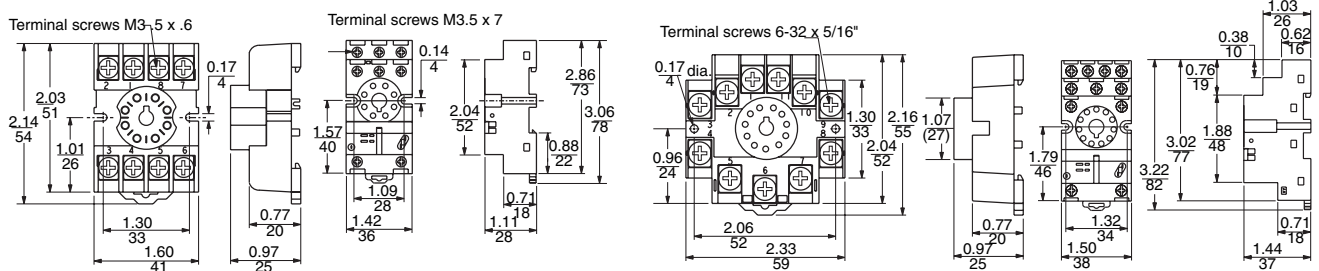
11-pin socket

RE48ASOC11AR
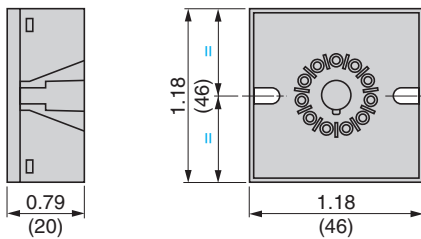
8-pin connector

RE48ASOC8SOLD

Ø 1.18 (30)

1.34 (34)
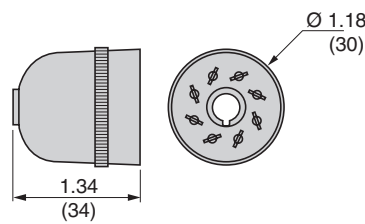
11-pin connector

RE48ASOC11SOLD

Ø 1.18 (30)

1.34 (34)
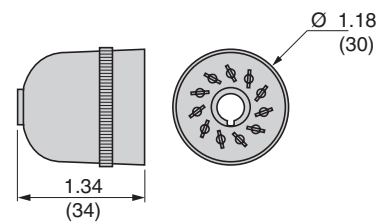
Mounting

Cover positioning and mounting

Panel cut-out

$A = 1.89n - 0.10$
$A = (48n - 2.5^{+1}_{-0})$
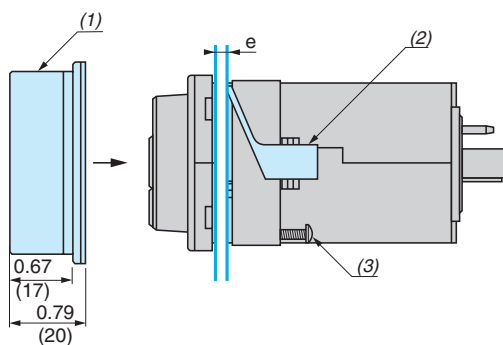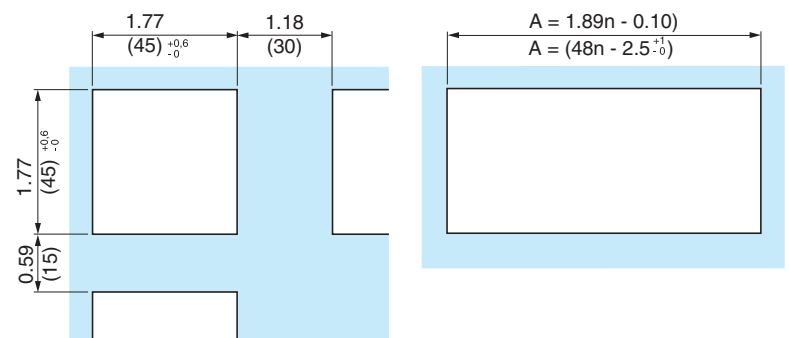
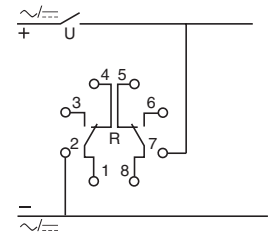e: panel thickness
(1) IP64 protective cover: RE48AIPCOV
(2) Panel mounting frame
(3) Locating screw

n: number of devices mounted side-by-side

Dimensions and wiring
(continued)

Zelio® Timing Relays
Analog, electronic relays,
relay output, 48 x 48

Wiring connection diagrams for RE48 panel-mount timers
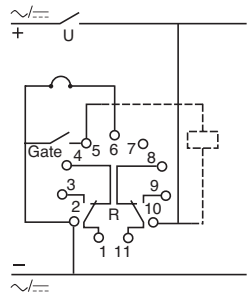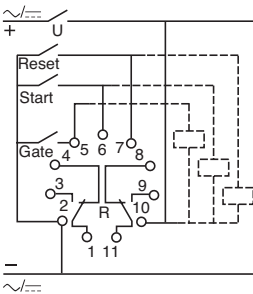
RE48ATM12MW *RE48ACV12MW* *RE48AML12MW* *RE48AMH13MW*
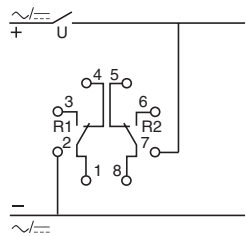
Schneider Electric USA, Inc.

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