



## Main

|                               |   |
|-------------------------------|---|
| Range of product              | Zelio Time  |
| Product or component type     | Universal timing relay  |
| Discrete output type          | Relay   |
| Contacts type and composition | 2 C/O   |
| Width pitch dimension         | 1.38 in (35 mm)   |
| Component name                | RE88867   |
| Time delay type               | A<br>Ac<br>At<br>B<br>C<br>D<br>Di<br>H<br>Ht<br>W                                      |
| Time delay range              | 0.1...1 s<br>1...10 h<br>1...10 min<br>1...10 s<br>10...100 h<br>6...60 min<br>6...60 s |

## Complementary

|                                |   |
|--------------------------------|---|
| Electrical connection          | Plug-in sub-base 11 pin(s)                                |
| Contacts material              | AgNi (cadmium free)                                       |
| Line Rated Current             | 8 A   |
| [Us] rated supply voltage      | 12...240 V AC/DC at 50/60 Hz                              |
| Voltage range                  | 0.85...1.1 Us   |
| Housing material               | Self-extinguishing  |
| Repeat accuracy                | +/- 0.5 % conforming to IEC 61812-1                       |
| Temperature drift              | +/- 0.05 %/°C   |
| Voltage drift                  | +/- 0.2 %/V   |
| Setting accuracy of time delay | +/- 10 % of full scale at 25 °C conforming to IEC 61812-1 |
| Minimum pulse duration         | 100 ms under load<br>30 ms                                |
| Maximum reset time             | 100 ms on de-energisation                                 |
| On-load factor                 | 100 %   |
| Maximum power consumption      | 32 VA 240 V   |
| Maximum power consumption      | 0.6 W 24 V<br>1.5 W 240 V                                 |
| Breaking capacity              | 2000 VA   |
| Breaking capacity              | 80 W  |
| Minimum switching current      | 10 mA   |
| Maximum switching current      | 8 A   |
| Maximum switching voltage      | 250 V   |
| Electrical durability          | 100000 cycles 8 A at 250 V resistive                      |
| Mechanical durability          | 5000000 cycles  |

|  |  |
|--|--|
| [Uimp] rated impulse withstand voltage | 5 kV 1.2...50 µs conforming to IEC 60664-1<br>5 kV for 1.2...50 µs conforming to IEC 61812-1   |
| Marking                                | CE   |
| Creepage distance                      | 4 kV/3 conforming to IEC 60664-1   |
| Surge withstand                        | 1 kV (differential mode) conforming to IEC 61000-4-5 level 3<br>2 kV (common mode) conforming to IEC 61000-4-5 level 3   |
| Local signalling                       | LED indicator green flashing: timing in progress<br>LED indicator green on steady: relay energised, no timing in progress<br>LED indicator green pulsing: relay energised, no timing in progress (except functions Di-D) |
| Product weight                         | 0.18 lb(US) (0.08 kg)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Immunity to microbreaks               | > 10 ms  |
| Dielectric strength                   | 2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1   |
| Standards                             | 73/23/EEC<br>89/336/EEC<br>93/68/EEC<br>EN 50081-1/2<br>EN 50082-1/2<br>IEC 60669-2-3<br>IEC 61812-1   |
| Product certifications                | CSA<br>CURus<br>GL   |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C)  |
| Ambient air temperature for storage   | -22...140 °F (-30...60 °C)   |
| IP degree of protection               | IP20 (terminal block) conforming to IEC 60529<br>IP40 (housing) conforming to IEC 60529<br>IP50 (front panel) conforming to IEC 60529              |
| Vibration resistance                  | 0.35 mm (f = 10...55 Hz) conforming to IEC 60068-2-6   |
| Relative humidity                     | 93 % without condensation conforming to IEC 60068-2-3  |
| Resistance to electrostatic discharge | 6 kV (in contact) conforming to IEC 61000-4-2 level 3<br>8 kV (in air) conforming to IEC 61000-4-2 level 3   |
| Resistance to electromagnetic fields  | 9.14 V/yd (10 V/m), 80 MHz to 1 GHz conforming to ENV 50140/204 level 3<br>9.14 V/yd (10 V/m), 80 MHz to 1 GHz conforming to IEC 61000-4-3 level 3 |
| Resistance to fast transients         | 1 kV, capacitive connecting clip conforming to IEC 61000-4-4 level 3<br>2 kV, direct conforming to IEC 61000-4-4 level 3                           |
| Immunity to radioelectric fields      | 10 V (0.15...80 MHz) conforming to ENV 50141 (IEC 61000-4-6)   |
| Immunity to voltage dips              | 30 % / 10 ms conforming to IEC 61000-4-11<br>60 % / 100 ms conforming to IEC 61000-4-11<br>95 % / 5 s conforming to IEC 61000-4-11                 |
| Disturbance radiated/conducted        | Class B conforming to EN 55022 (EN 55011 group 1)  |

## Ordering and shipping details

|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22370 - RE, RM MISC TIMERS & COUNTERS |
| Discount Schedule     | CP2                                   |
| GTIN                  | 00785901683087                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 0.20000000000000001                   |
| Returnability         | N                                     |
| Country of origin     | FR                                    |

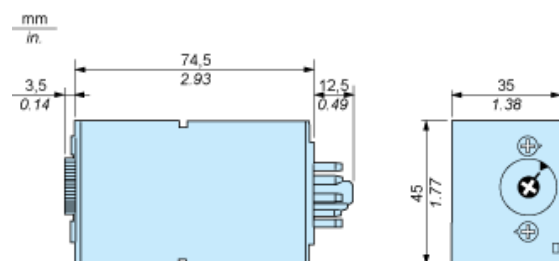
## Offer Sustainability

|                            |  |
|----------------------------|--|
| California proposition 65  | WARNING: This product can expose you to chemicals including:   |
| - - - - - Substance 1      | Nickel compounds, which is known to the State of California to cause cancer, and   |
| - - - - - Substance 2      | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| - - - - - More information | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

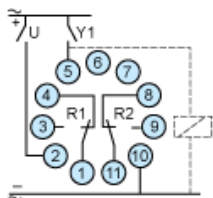
Width 35 mm



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Wiring Diagram

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## Function A : Power on Delay Relay

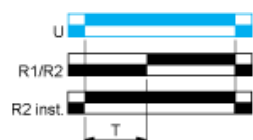
### Description

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

#### Function: 1 Output



#### Function: 2 Outputs



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

## Function Ac : On- and Off-Delay Relay with Control Signal

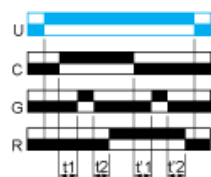
### Description

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: 1 Output



#### Function: 2 Outputs



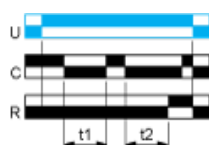
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

### Description

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

### Function: 1 Output



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

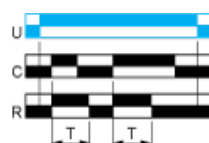
### Function B : Interval Relay with Control Signal

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#### Description

After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.

### Function: 1 Output



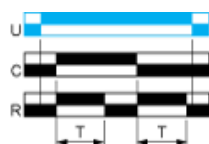
### Function Bw : Double Interval Relay with Control Signal

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#### Description

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

### Function: 1 Output



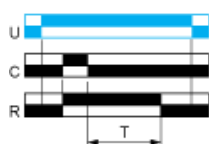
### Function C : Off-Delay Relay with Control Signal

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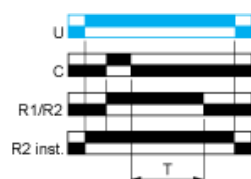
#### Description

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

### Function: 1 Output



### Function: 2 Outputs



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

### Function H : Interval Relay

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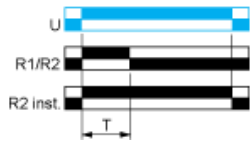
#### Description

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

### Function: 1 Output



### Function: 2 Outputs



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

## Function Ht : Interval Relay (Summation) with Control Signal

### Description

On energisation, 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  $t_1 + t_2 + \dots$

The relay memorises the total, cumulative opening time of control contact C and, once the set time T is reached, the output R reverts to its initial state.

### Function: 1 Output



$T = t_1 + t_2 + \dots$

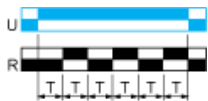
## Function D : Symmetrical Flasher Relay (Starting Pulse Off)

### Description

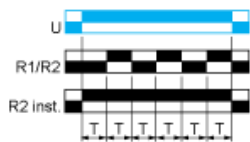
Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

The second output can be either timed or instantaneous.

### Function: 1 Output



### Function: 2 Outputs



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

## Function Di : Symmetrical Flasher Relay (Starting Pulse On)

### Description

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

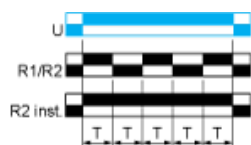
The second output can be either timed or instantaneous.



## Function: 1 Output




## Function: 2 Outputs



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


## Legend

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 Relay de-energised

 Relay energised

 Output open

 Output closed

C Control contact

G Gate

R Relay or solid state output

R1/ 2 timed outputs

R2

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

inst.

T Timing period

Ta Adjustable On-delay

-

Tr Adjustable Off-delay

-

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