# RE88865185

multifunction timing relay - 1 s..100 h - 24..240 V AC - 1 contact



# Main

Range of product	Zelio Time
Product or component type	Industrial timing relay
Contacts type and composition	1 C/O timed contact, AgNi (cadmium free)
Component name	RE88865
Time delay type	Ad Ah N O P Pt TI Tt W
Time delay range	1 h 1 min 1 s 10 h 10 min 10 s 100 h

#### Complementary

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Discrete output type	Relay
Width pitch dimension	22.5 mm
[Us] rated supply voltage	24240 V AC at 50/60 Hz 24 V DC
Voltage range	0.851.1 Us
Connections - terminals	Screw terminals, clamping capacity: 2 x 2.5 mm² without cable end Screw terminals, clamping capacity: 2 x 1.5 mm² with cable end
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	30 ms 100 ms under load
Maximum reset time	100 ms on de-energisation
On-load factor	100 %
Maximum power consumption	32 VA 240 V
Maximum power consumption	1.5 W 240 V 0.6 W 24 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 for 1.250 μs conforming to IEC 61812-1 5 kV for 1.250 μs conforming to IEC 60664-1
Marking	CE
Creepage distance	4 kV/3 conforming to IEC 60664-1

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the dourn and restring of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Surge withstand	2 kV (common mode) conforming to IEC 61000-4-5 level 3 1 kV (differential mode) conforming to IEC 61000-4-5 level 3
Mounting support	35 mm symmetrical mounting rail conforming to EN 50022
Local signalling	LED indicator green pulsing: relay energised, no timing in progress LED indicator green on steady: relay energised, no timing in progress LED indicator green flashing: timing in progress
Product weight	0.09 kg

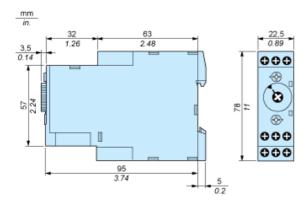
## Environment

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 89/336/EEC 93/68/EEC EN 50081-1/2 EN 50082-1/2 IEC 60669-2-3 IEC 61812-1
Product certifications	CSA CULus GL
Ambient air temperature for operation	-2060 °C
Ambient air temperature for storage	-3060 °C
IP degree of protection	IP50 (front face) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP20 (terminal block) conforming to IEC 60529
Vibration resistance	0.35 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Relative humidity	93 % without condensation conforming to IEC 60068-2-3
Resistance to electrostatic discharge	8 kV (in air) conforming to EN/IEC 61000-4-2 level 3 6 kV (in contact) conforming to EN/IEC 61000-4-2 level 3
Resistance to electromagnetic fields	10 V/m, 80 MHz to 1 GHz conforming to IEC 61000-4-3 level 3 10 V/m, 80 MHz to 1 GHz conforming to ENV 50140/204 level 3
Resistance to fast transients	2 kV, direct conforming to IEC 61000-4-4 level 3 1 kV, capacitive connecting clip conforming to IEC 61000-4-4 level 3
Immunity to radioelectric fields	10 V (0.1580 MHz) conforming to ENV 50141 (IEC 61000-4-6)
Immunity to voltage dips	95 % / 5 s conforming to IEC 61000-4-11 60 % / 100 ms conforming to IEC 61000-4-11 30 % / 10 ms conforming to IEC 61000-4-11
Disturbance radiated/conducted	Class B conforming to EN 55022 (EN 55011 group 1)



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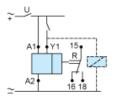
## Width 22.5 mm



# Product data sheet Connections and Schema

# RE88865185

## Wiring Diagram



# Product data sheet Technical Description

## RE88865185

#### Function Ad: Pulse Delayed Relay with Control Signal

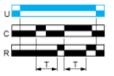
#### Description

After power-up, pulsing or maintaining of 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: 1 Output



#### Function Ah: Pulse Delayed Relay (Single Cycle) with Control Signal

#### Description

After power-up, pulsing or maintaining of 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 closes 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.

#### Function: 1 Output



#### Function N: Retriggerable Interval Relay with Control Signal On

#### Description

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 closes 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: 1 Output



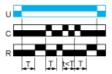
#### Function O: Retriggerable Interval Delayed Relay with Control Signal On

#### Description

An initial timing period T begins on energisation. 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 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: 1 Output



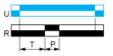
#### Function P: Pulse Delayed Relay with Fixed Pulse Length

#### Description

The timing period T begins on energisation.

At the end of this period, the output R closes for a fixed time P.

#### Function: 1 Output



P = 500 ms

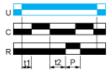
#### Function Pt: Pulse Delayed Relay (Summation and Fixed Pulse Length) with Control Signal Off

#### Description

On energisation, 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.

#### Function: 1 Output



T = t1 + t2 + ...

P = 500 ms

#### Function TI: Impulse Relay

#### Description

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

#### Description

After power-up, pulsing or maintaining of control contact C switches output R on and starts timing T.

The output switches off at the end of the timing period T or following a second pulse on the control contact C.

#### Function: 1 Output



Function W: Interval Relay with Control Signal Off

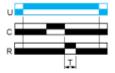
#### Description

After power-up and opening of the control contact, the output(s) close(s) for a timing period T.

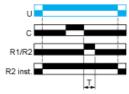
At the end of this timing period the output(s) revert(s) to its/their initial state.

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.).

## Legend

Relay de-energised Relay energised Output open

Output closed

С 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.

Τ Timing period

Та Adjustable On-delay

Tr Adjustable Off-delay

U Supply