Specifications



① Discontinued

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 | TI Pt N Ad P W O Ah Tt |
| Time Delay Range | 10 min 100 h 10 h 1 s 1 h 1 min 10 s |

() Discontinued on: Jan 29, 2021

multifunction timing relay - 1 s..100

h - 24..240 V AC - 1 contact

RE88865185

Complementary

| Discrete Output Type | Relay |
|--------------------------------|---|
| Width Pitch Dimension | 22.5 mm |
| [Us] Rated Supply Voltage | 24 V DC 24240 V AC 50/60 Hz |
| Voltage Range | 0.851.1 Us |
| Connections - Terminals | Screw terminals, 2 x 1.5 mm ² with cable end Screw terminals, 2 x 2.5 mm ² without 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 | 100 ms under load 30 ms |
| Maximum Reset Time | 100 ms on de-energisation |
| On-Load Factor | 100 % |

| Maximum Power Consumption | 32 VA at 240 V |
|---|--|
| Maximum Power Consumption | 0.6 W at 24 V 1.5 W at 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 at 8 A, 250 V for resistive load |
| Mechanical Durability | 500000 cycles |
| [Uimp] Rated Impulse Withstand Voltage | 5 kV for 1.250 μs conforming to IEC 60664-1 5 kV for 1.250 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 2 kV common 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) for flashing: timing in progress LED indicator (green) for on steady: relay energised, no timing in progress LED indicator (green) for pulsing: relay energised, no timing in progress |
| Net Weight | 0.09 kg |
| | |

Environment

| Immunity To Microbreaks | 10 ms |
|--|--|
| Dielectric Strength | 2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1 |
| Standards | EN 50081-1/2 IEC 61812-1 73/23/EEC 93/68/EEC IEC 60669-2-3 EN 50082-1/2 89/336/EEC |
| Product Certifications | CSA cULus GL |
| Ambient Air Temperature For Operation | -2060 °C |
| Ambient Air Temperature For Storage | -3060 °C |
| Ip Degree Of Protection | IP20 (terminal block) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front face) 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 | 6 kV in contact conforming to EN/IEC 61000-4-2 level 3 8 kV in air conforming to EN/IEC 61000-4-2 level 3 |
| Resistance To Electromagnetic Fields | 10 V/m 80 MHz to 1 GHz conforming to ENV 50140/204 level 3 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 2 kV (direct) 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 | 30 % / 10 ms conforming to IEC 61000-4-11 60 % / 100 ms conforming to IEC 61000-4-11 95 % / 5 s conforming to IEC 61000-4-11 |
|--------------------------------|--|
| Disturbance Radiated/Conducted | Class B conforming to EN 55022 (EN 55011 group 1) |

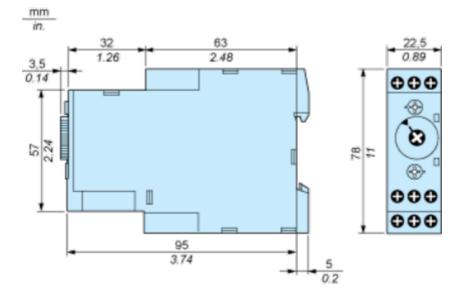
Contractual warranty

Warranty

18 months

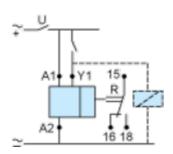
Dimensions Drawings

Width 22.5 mm



Connections and Schema

Wiring Diagram

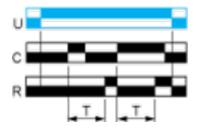


Technical Description

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.



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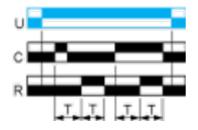
Function Ah : Pulse Delayed Relay (Single Cycle) with Control Signal

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.

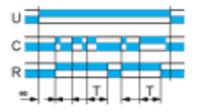


Function N : Retriggerable Interval Relay with Control Signal On

Description

After power-up and an initial control pulse C, the output R closes.

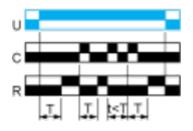
If the interval between two control pulses C is greater than the set timing period T, timing elapses normally and the output R closes at the end of the timing period. If the interval is not greater than the set timing period, the output R remains closed until this condition is met.



Function 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 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.



P = 500 ms

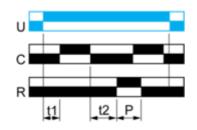
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Function Pt : Pulse Delayed Relay (Summation and Fixed Pulse Length) with Control Signal Off

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

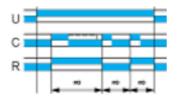


T = t1 + t2 + ... P = 500 ms

Function TI: Impulse Relay

Description

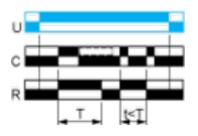
After power-up, pulsing or maintaining of control contact C switches the output on. A second pulse on the control contact C switches the output R off.



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.

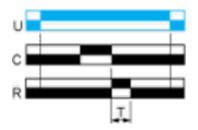


Function W : Interval Relay with Control Signal Off

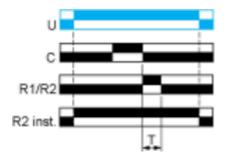
Description

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/R2 | 2 timed outputs |
| R2 inst. | The second output is instantaneous if the right position is selected |
| т | Timing period |
| Ta - | Adjustable On-delay |
| Tr - | Adjustable Off-delay |
| U | Supply |