

Product datasheet

Specifications



time delay relay 10 functions - 1 s.. 100 h - 12 V AC/DC - 1 OC

Local distributor code:
397857351 RE17RMJU

EAN Code: 3606480552748

Main

| | |
|---------------------------|---|
| Range Of Product | Harmony Timer Relays |
| Product Or Component Type | Multifunction relay |
| Discrete Output Type | Relay |
| Width | 17.5 mm |
| Device Short Name | RE17R |
| Time Delay Type | Power on-delay On-delay and off-delay Interval Off-delay Symmetrical flashing |
| Time Delay Range | 1...10 s 6...60 s 10...100 h 1...10 min 1...10 h 0.1...1 s 6...60 min |
| Nominal Output Current | 8 A |

Complementary

| | |
|-------------------------------|--|
| Contacts Type And Composition | 1 C/O |
| Contacts Material | Cadmium free |
| Height | 90 mm |
| Depth | 72 mm |
| Control Type | Selector switch front panel |
| [Us] Rated Supply Voltage | 12 V AC/DC 50/60 Hz |
| Voltage Range | 0.9...1.2 Us |
| Supply Frequency | 50...60 Hz +/- 5 % |
| Release Of Input Voltage | 5 V |
| Connections - Terminals | Screw terminals, 1 x 0.5...1 x 3.3 mm ² (AWG 20...AWG 12) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with cable end |
| Tightening Torque | 0.6...1 N.m conforming to IEC 60947-1 |
| Housing Material | Self-extinguishing |
| Repeat Accuracy | +/- 0.5 % conforming to IEC 61812-1 |
| Temperature Drift | +/- 0.05 %/°C |
| Voltage Drift | +/- 0.2 %/V |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|--|---|
| Setting Accuracy Of Time Delay | +/- 10 % of full scale at 25 °C conforming to IEC 61812-1 |
| Control Signal Pulse Width | 100 ms with load in parallel typical 30 ms typical |
| Insulation Resistance | 100 MOhm at 500 V DC conforming to IEC 60664-1 |
| Reset Time | 120 ms on de-energisation typical |
| On-Load Factor | 100 % |
| Power Consumption In Va | 0...0.7 VA at 12 V AC |
| Maximum Power Consumption In W | 0.5 W at 12 V DC |
| Minimum Switching Current | 10 mA at 5 V DC |
| Maximum Switching Current | 8 A AC/DC |
| Maximum Switching Voltage | 250 V AC |
| Breaking Capacity | 2000 VA |
| Operating Frequency | 10 Hz |
| Electrical Durability | 100000 cycles (8 A at 250 V AC maximum) for resistive load |
| Mechanical Durability | 10000000 cycles |
| Dielectric Strength | 2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1 |
| [Uimp] Rated Impulse Withstand Voltage | 5 kV during 1.2/50 µs |
| Power On Delay | 100 ms |
| Marking | CE |
| Creepage Distance | 4 kV/3 conforming to IEC 60664-1 |
| Safety Reliability Data | MTTFd = 296.8 years B10d = 270000 |
| Mounting Position | Any position in relation to normal vertical mounting plane |
| Mounting Support | 35 mm DIN rail conforming to IEC 60715 |
| Local Signalling | LED indicator for on steady: relay energised, no timing in progress LED indicator for flashing: timing in progress 80 % ON and 20 % OFF LED indicator for pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) 5 % ON and 95 % OFF |
| Net Weight | 0.07 kg |
| Number Of Functions | 10 |
| Time Delay Type | A, Ac, At, B, Bw, C, D, Di, H, Ht |
| Functionality | Multifunction |
| Compatibility Code | RE17 |

Environment

| | |
|-------------------------------------|--|
| Immunity To Microbreaks | 20 ms |
| Standards | 2006/95/EC 2004/108/EC IEC 61000-6-4 IEC 61000-6-1 IEC 61000-6-3 IEC 61812-1 IEC 61000-6-2 |
| Product Certifications | CSA GL cULus |
| Ambient Air Temperature For Storage | -30...60 °C |

| | |
|---------------------------------------|--|
| Ambient Air Temperature For Operation | -20...60 °C |
| Ip Degree Of Protection | IP20 (terminal block) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529 |
| Vibration Resistance | 20 m/s² (f= 10...150 Hz) conforming to IEC 60068-2-6 |
| Shock Resistance | 15 gn for 11 ms conforming to IEC 60068-2-27 |
| Relative Humidity | 93 % without condensation conforming to IEC 60068-2-30 |
| Electromagnetic Compatibility | Electrostatic discharge immunity test: (in contact), level 3, 6 kV, conforming to IEC 61000-4-2 Electrostatic discharge immunity test: (in air), level 3, 8 kV, conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields: (80 MHz to 1 GHz), level 3, 10 V/m, conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test: (capacitive connecting clip), level 3, 1 kV, conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test: (direct), level 3, 2 kV, conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test: (differential mode), level 3, 1 kV, conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test: (common mode), level 3, 2 kV, conforming to IEC 61000-4-5 Conducted RF disturbances: (0.15...80 MHz), level 3, 10 V, conforming to IEC 61000-4-6 Voltage dips and interruptions immunity test: (1 cycle), 0 %, conforming to IEC 61000-4-11 Voltage dips and interruptions immunity test: (25/30 cycles), 70 %, conforming to IEC 61000-4-11 Conducted and radiated emissions: , class B, conforming to EN 55022 |

Packing Units

| | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.8 cm |
| Package 1 Width | 8.0 cm |
| Package 1 Length | 9.8 cm |
| Package 1 Weight | 80.0 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 40 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 3.475 kg |

Contractual warranty

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

Sustainability



Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓

Mercury Free

✓

Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

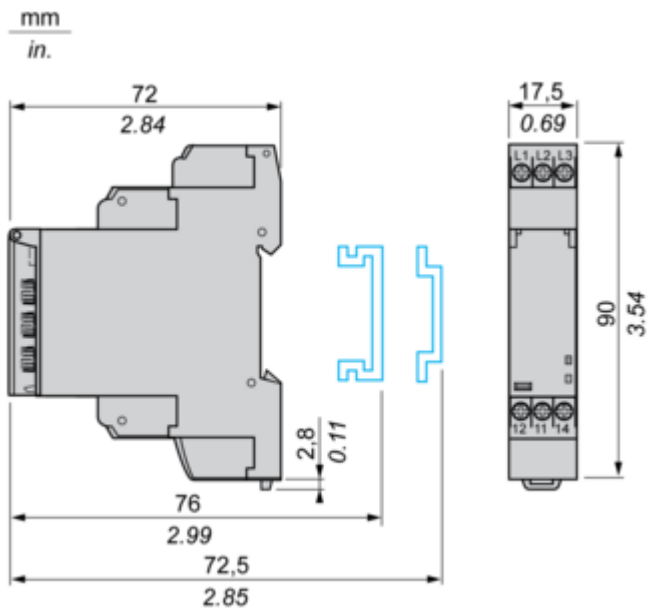
[Product Environmental Profile](#)

Circularity Profile

[End of Life Information](#)

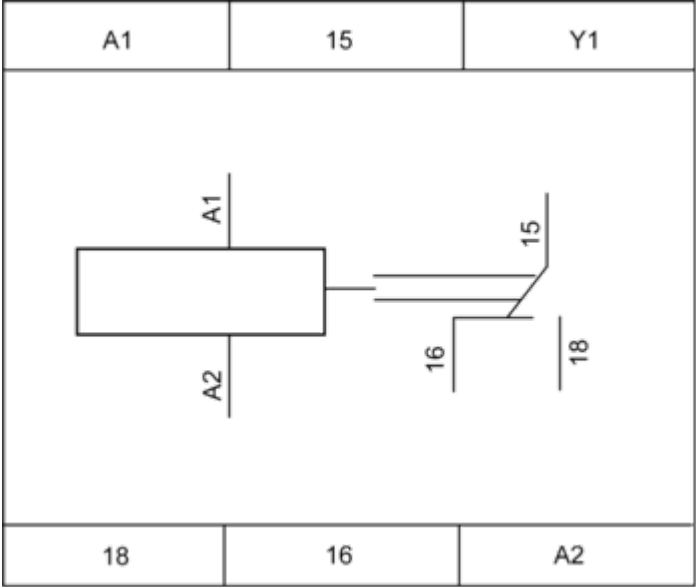
Dimensions Drawings

Width 17.5 mm

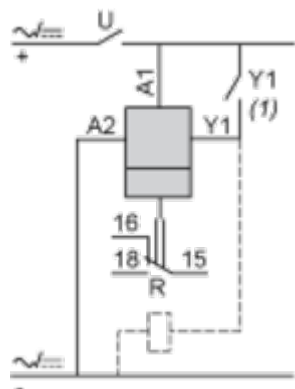


Connections and Schema

Internal Wiring Diagram



Wiring Diagram



1) Contact Y1:

- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

Technical Description

Function A : Power on Delay Relay

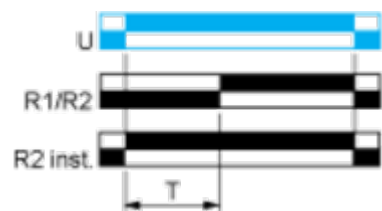
Description

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



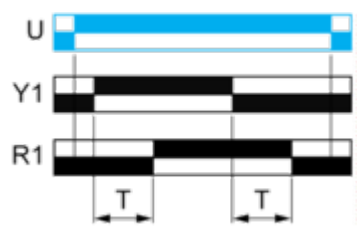
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ac: On-Delay & Off-Delay with Control Signal

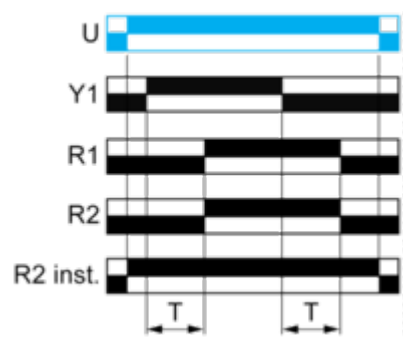
Description

After energisation of power supply and energization of Y1 causes the timing period T to start.
At the end of this timing period, the output(s) R close(s).
When deenergization of Y1, the timing T starts.
At the end of this timing period T,the output(s) R revert(s) to its/their initial position.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

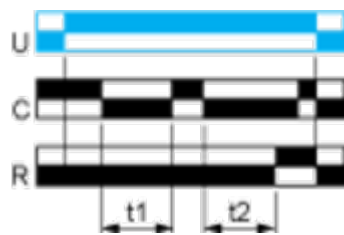


Function At : Power on Delay Relay (Summation) with Control Signal

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



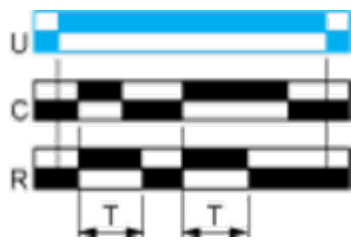
$T = t1 + t2 + \dots$

Function B : Interval Relay with Control Signal

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

Description

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

Function: 1 Output

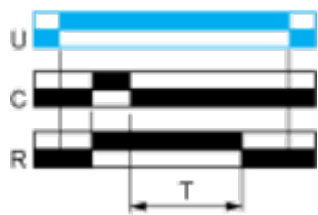


Function C : Off-Delay Relay with Control Signal

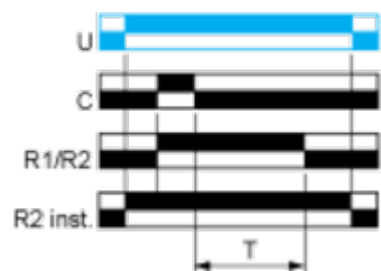
Description

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



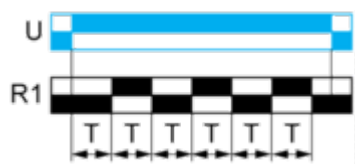
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

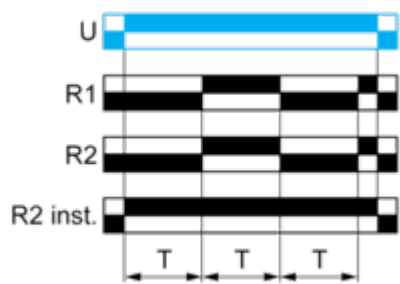
Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T then change(s) to output(s) R close(s) for the same timing duration T. This cycle is repeated indefinitely until power supply removal. Specially for RE17*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



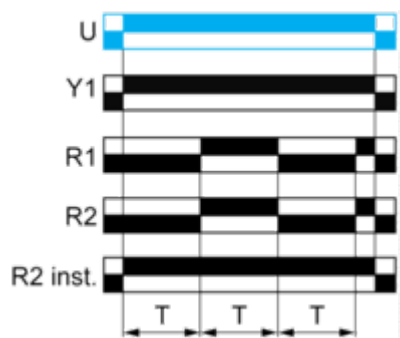
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Function Di : Symmetrical Flasher Relay (Starting Pulse On)

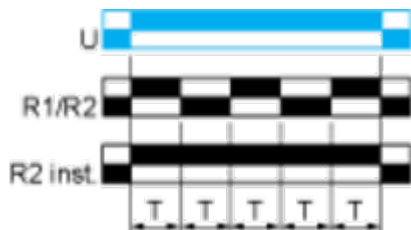
Description

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.)

Function H : Interval Relay

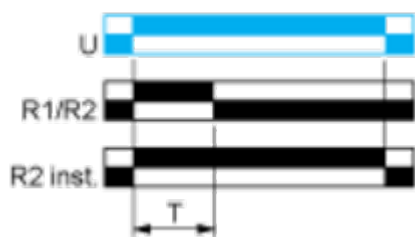
Description

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



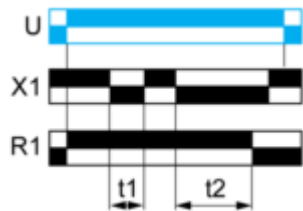
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ht: Interval Relay & With Pause / Summation Control

Description

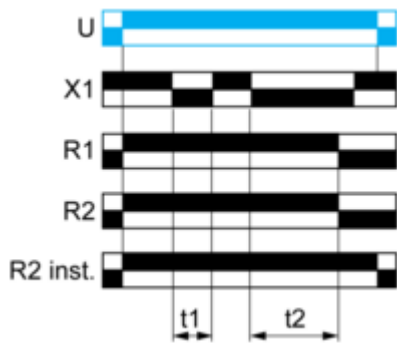
On energisation of power supply, output(s) R close(s) and timing period T starts.
The timing can be interrupted / paused each time X1 energizes.
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state
Reenergization of X1 will also cause output(s) R close(s) if the time has elapsed and restart the same operation as described at the beginning.
Except for RE17*, RE22R2MMW, RENF22R2MMW, RE22R2MMU and RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.
The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 1 Output



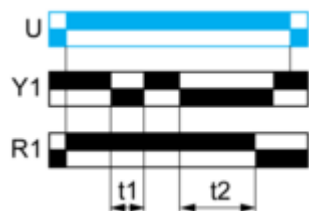
$T = t1 + t2 + \dots$

Function: 2 Outputs



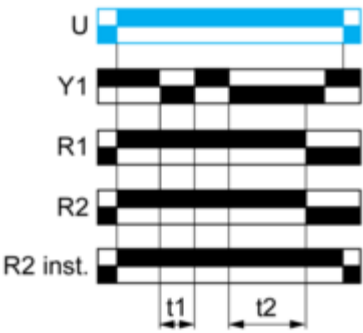
$T = t1 + t2 + \dots$

Function: 1 Output with Retrigger / Restart Control







$T = t1 + t2 + \dots$

Function: 2 Outputs with Retrigger / Restart Control



$T = t1 + t2 + \dots$

Legend

-  Relay de-energised
-  Relay energised
-  Output open
-  Output closed

| | |
|----------|--|
| C | 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 |
| T | Timing period |
| Ta - | Adjustable On-delay |
| Tr - | Adjustable Off-delay |
| U | Supply |