



Osnovne informacije

Grupa proizvoda	Harmony Timer Relays
Tip proizvoda ili komponente	Multifunction relay
Tip digitalnog izlaza	Relej
Širina	17,5 mm
Kratko ime uređaja	RE17R
Tip kašnjenja	Power on-delay On-delay and off-delay Interval Kašnjenje isključenja Symmetrical flashing
Opseg vremenskog kašnjenja	6...60 min 1...10 h 0.1...1 s 1...10 s 1...10 min 10...100 h 6...60 s
Nazivna izlazna struja	8 A

Dopunske informacije

Tip kontakata i sastav	1 C/O
Materijal kontakata	Bez kadmijuma
Visina	90 mm
Dubina	72 mm
Način upravljanja	Izborni prekidač prednji panel
[us] nazivni napon napajanja	24...240 V AC 50/60 Hz 24 V DC
Opseg napona	0.85...1.1 Us
Frekvencija napajanja	50...60 Hz +/- 5 %
Release of input voltage	10 V
Povezivanje - priključci	Vijčani priključci, 1 x 0.5...1 x 3.3 mm ² (AWG 20...AWG 12) jednožični bez kablovskog završetka Vijčani priključci, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) jednožični bez kablovskog završetka Vijčani priključci, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 14) fleksibilni sa kablovskim završetkom Vijčani priključci, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) fleksibilni sa kablovskim završetkom
Moment pritezanja	0,6...1 N.m u skladu sa IEC 60947-1
Materijal kućišta	Samogasivi
Tačnost ponavljanja	+/- 0.5 % u skladu sa IEC 61812-1
Temperaturni drift	+/- 0.05 %/°C
Naponski drift	+/- 0.2 %/V
Podešavanje tačnosti kašnjenja	+/- 10 % od pune skale pri 25 °C u skladu sa IEC 61812-1
Control signal pulse width	100 ms sa opterećenjem u paraleli tipično 30 ms tipično
Otpornost izolacije	100 MOhm pri 500 V DC u skladu sa IEC 60664-1
Vreme reseta	120 milisekundi pri isključenju tipično
Faktor opterećenja	100 %
Snaga potrošnje u va	0...32 VA pri 240 V AC
Maksimalna potrošnja u w	0,6 W pri 24 V DC

Minimalna struja preklapanja	10 mA pri 5 V DC
Maksimalna struja preklapanja	8 A AC/DC
Maksimalni napon preklapanja	250 V AC
Prekidna moć	2000 VA
Operating frequency	10 Hz
Električna trajnost	100000 ciklusa za rezistivno opterećenje (8 A pri 250 V AC maksimum)
Mehanička trajnost	10000000 ciklusa
Dielektrična snaga	2,5 kV 1 mA/1 minut 50 Hz u skladu sa IEC 61812-1
[uimp] nazivni podnosivi impulsni napon	5 kV tokom 1.2/50 µs
Power on delay	100 milisekundi
Označavanje	CE
Puzna staza	4 kV/3 u skladu sa IEC 60664-1
Sigurnosni podaci o pouzdanosti	B10d = 270000 MTTFd = 296.8 godina
Pozicija montaže	Bilo koja pozicija u odnosu na normalnu vertikalnu montažnu ploču
Držač za montažu	35 mm DIN šina u skladu sa IEC 60715
Lokalna signalizacija	LED indikator za kontinualno: relej pod naponom, vremenska funkcija se ne izvršava trenutno LED indikator 80 % ON i 20 % OFF za treperenje: izvršavanje zadate funkcije u toku LED indikator 5 % ON i 95 % OFF za treperenje: kelem nije pod naponom, vremenska f-ja nije aktivna (izuzev Di-D, Li-L)
Masa proizvoda	0,07 kg
Number of functions	10
Vrsta kašnjenja	A, Ac, At, B, Bw, C, D, Di, H, Ht
Funkcionalnost	Više funkcija
Kompatibilnost	RE17

Okruženje

Otpornost na mikroprekide	20 milisekundi
Standardi	2006/95/EC 2004/108/EC IEC 61812-1 IEC 61000-6-2 IEC 61000-6-3 IEC 61000-6-4 IEC 61000-6-1
Sertifikacija proizvoda	CSA[RETURN]GL[RETURN]cULus
Temperatura okoline za skladištenje	-30...60 °C
Temperatura okoline za rad uređaja	-20...60 °C
Ip stepen zaštite	IP20 u skladu sa IEC 60529 (priključni blok) IP40 u skladu sa IEC 60529 (kućište) IP50 u skladu sa IEC 60529 (prednji panel)
Otpornost na vibracije	20 m/s ² (f= 10...150 Hz) u skladu sa IEC 60068-2-6
Otpornost na udare	15 gn za 11 milisekundi u skladu sa IEC 60068-2-27

Relativna vlažnost	93 % bez kondenzacije u skladu sa IEC 60068-2-30
Elektromagnetna kompatibilnost	Test otpornosti elektrostatičkog pražnjenja: (u kontaktu) nivo 3 test nivo: 6 kV u skladu sa IEC 61000-4-2 Test otpornosti elektrostatičkog pražnjenja: (u vazduhu) nivo 3 test nivo: 8 kV u skladu sa IEC 61000-4-2 Osetljivost na elektromagnetna polja: (80 MHz do 1 GHz) nivo 3 test nivo: 10 V/m u skladu sa IEC 61000-4-3 Test otpornosti električnih brzih prelaza (EFT)/kratak signal: (spojnica za kapacitivno povezivanje) nivo 3 test nivo: 1 kV u skladu sa IEC 61000-4-4 Test otpornosti električnih brzih prelaza (EFT)/kratak signal: (direktno) nivo 3 test nivo: 2 kV u skladu sa IEC 61000-4-4 1.2/50 µs test otpornosti udarnog talasa: (diferencijalni mod) nivo 3 test nivo: 1 kV u skladu sa IEC 61000-4-5 1.2/50 µs test otpornosti udarnog talasa: (asimetrični napon) nivo 3 test nivo: 2 kV u skladu sa IEC 61000-4-5 Radio smetnje emisije vezane sa vodovima: (0.15...80 MHz) nivo 3 test nivo: 10 V u skladu sa IEC 61000-4-6 Test otpornosti propada i prekida napona: (1 ciklus) test nivo: 0 % u skladu sa IEC 61000-4-11 Test otpornosti propada i prekida napona: (25/30 ciklusa) test nivo: 70 % u skladu sa IEC 61000-4-11 Licencu: klasa B u skladu sa EN 55022

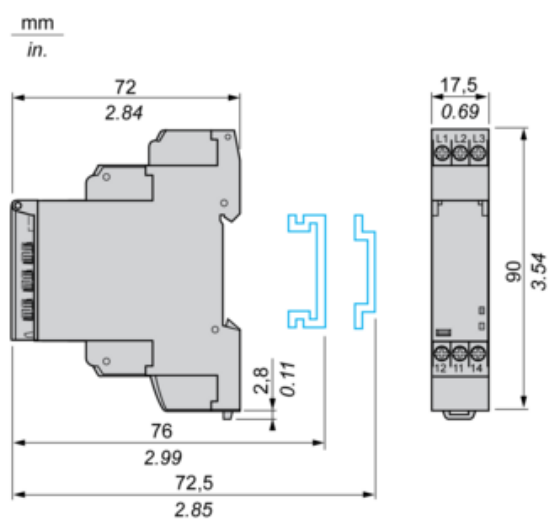
Pakovanje

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2,600 cm
Package 1 Width	7,800 cm
Package 1 Length	9,500 cm
Package 1 Weight	80,000 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15,000 cm
Package 2 Width	30,000 cm
Package 2 Length	40,000 cm
Package 2 Weight	3,690 kg
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	75,000 cm
Package 3 Width	60,000 cm
Package 3 Length	80,000 cm
Package 3 Weight	65,700 kg

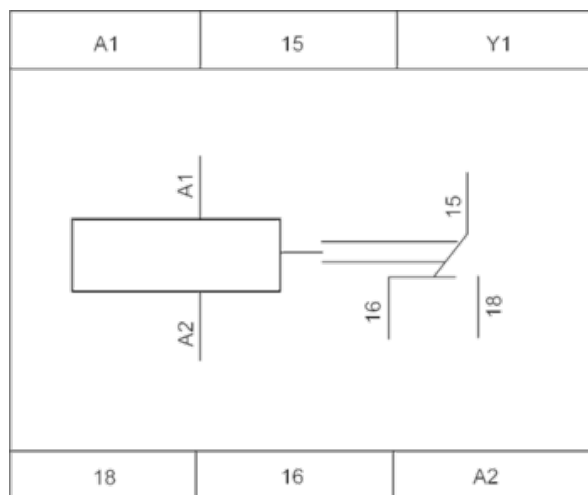
Održivost ponude

Status održive ponude	Green Premium proizvod
Propis REACh	 REACh Deklaracija
EU RoHS direktiva	Proaktivna usaglašenost (proizvod nije u zakonskom okviru direktive EU RoHS)
Bez žive	Da
RoHS regulativa za Kinu	 RoHS Deklaracija Za Kinu
Informacije o RoHS izuzecima	 Da
Izjava o zaštiti okoliša	 Profil Ekološke Prihvatljivosti Proizvoda
Profil cirkularnosti	 Informacije O Kraju Radnog Veka

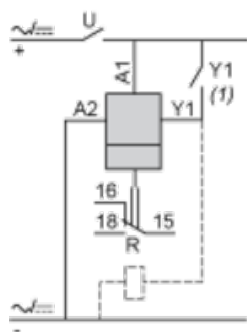
Width 17.5 mm



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.

Function A : Power on Delay Relay

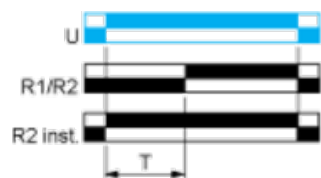
Description

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.

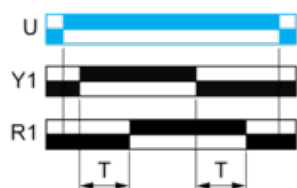
At the end of this timing period, the output(s) R close(s).

When deenergization of Y1, the timing T starts.

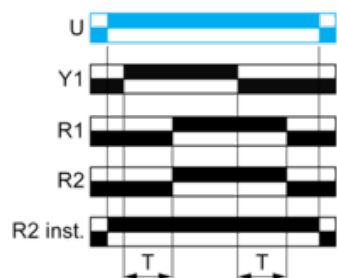
At the end of this timing period T, the output(s) R revert(s) to its/their initial position.

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

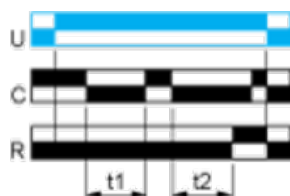


Function At : Power on Delay Relay (Summation) with Control Signal

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



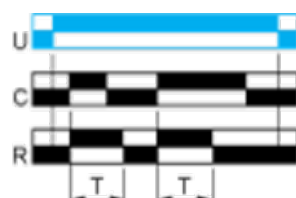
$$T = t1 + t2 + \dots$$

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

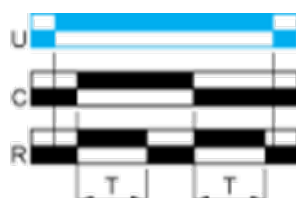


Function Bw : Double Interval Relay with Control Signal

Description

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

Function: 1 Output

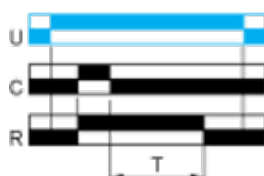


Function C : Off-Delay Relay with Control Signal

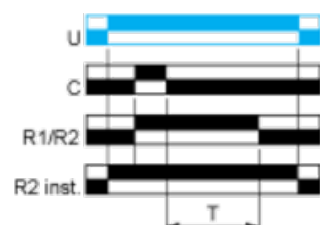
Description

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)

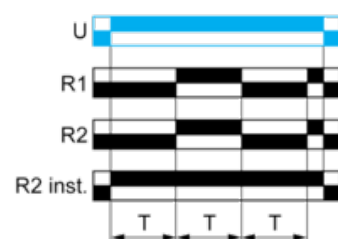
Description

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").

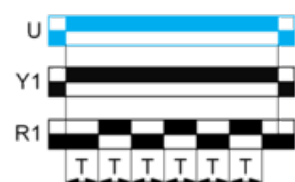
Function: 1 Output



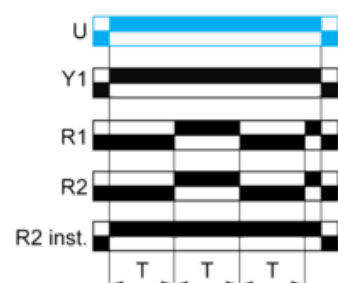
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Function Di : Symmetrical Flasher Relay (Starting Pulse On)

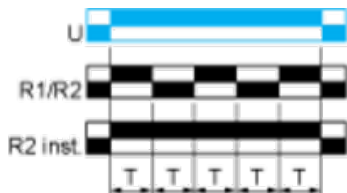
Description

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

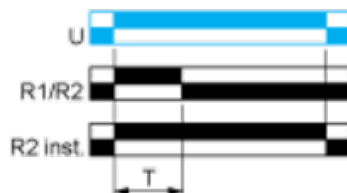
Description

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.

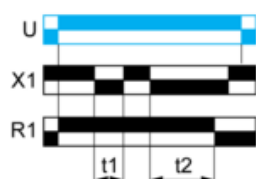
The timing can be interrupted / paused each time X1 energizes.

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.

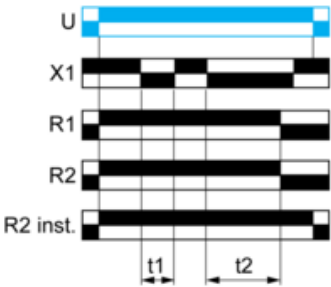
The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 1 Output



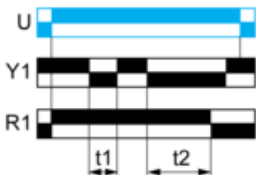
$T = t1 + t2 + \dots$

Function: 2 Outputs



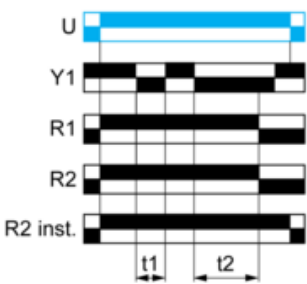
$T = t1 + t2 + \dots$

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