



Presentazione

Gamma prodotto	Harmony Timer Relays
Tipo prodotto	Multifunction relay
Tipo uscita digitale	Relè
Nome dispositivo	RE22
Corrente di uscita nominale	8 A

Caratteristiche tecniche

Composizione e tipo di contatti	1 C/O contatto temporizzato 1 C/O contatto temporizzato o istantaneo
Tipo temporizzazione	Power on-delay On-delay and off-delay Interval Ritardo alla diseccitazione Symmetrical flashing
Gamma di temporizzazione	0,1...1 s 6...60 s 1...10 H 1...10 min 1...10 s 10...100 H 6...60 min
Tipo di comando	Manovra rotativa pannello frontale
Tensione nominale di alimentazione [Us]	12...240 V CA/CC
Intervallo di tensione	0,85...1,1 Us
Frequenza di alimentazione	50...60 Hz +/- 5 %
Connessioni - morsetti	Morsetti a vite, 2 x 1,5 mm ² con estremità cavo Morsetti a vite, 2 x 2,5 mm ² senza estremità cavo
Coppia di serraggio	0,6...1 Nm conforme a IEC 60947-1
Materiale involucro	Autoestinguente
Precisione ripetizione	+/- 0,5 % conforme a IEC 61812-1
Deriva di temperatura	+/- 0,05 %/°C
Deriva della tensione	+/- 0,2 %/V
Accuratezza regolazione temporizzazione	+/- 10% fondo scala a 25 °C conforme a IEC 61812-1
Control signal pulse width	30 Ms 100 ms sotto carico
Resistenza di isolamento	100 MΩ a 500 V CC conforme a IEC 60664-1
Recovery time	120 ms alla disattivazione
Immunità alle microinterruzioni	10 ms
Potenza assorbita in VA	3 VA a 240 V CA
Potenza assorbita in W	1,5 W a 240 V DC
Potere di interruzione	2000 VA
Minima corrente di commutazione	10 mA a 5 V
Corrente massima di commutazione	8 A
Massima tensione di commutazione	250 V
Durata elettrica	100000 cicli per resistivo carico, 8 A a 250 V, AC

Durata meccanica	10000000 cicli
Rated impulse withstand voltage	5 kV per 1,2...50 µs conforme a IEC 60664-1 5 kV conforme a IEC 61812-1
Power on delay	100 ms
Dati di affidabilità sicurezza	B10d = 230000 MTTFd = 251,1 anni
Posizione di montaggio	Qualunque posizione in relation to normal vertical mounting plane
Supporto per montaggio	Guida DIN 35 mm conforme a EN/IEC 60715
LED di stato	Verde LED (lampeggiante) per timing in progress Verde LED (fisso) per Alimentazione ON Giallo LED per relay energised
Larghezza	22,5 mm
Peso prodotto	0,093 kg

Ambiente

Resistenza dielettrica	2,5 kV per 1 mA/1 minuto a 50 Hz conforme a IEC 61812-1
Standard	IEC 61812-1 EN 61000-6-2 EN 61000-6-1 EN 61000-6-4 EN 61000-6-3
Comandi	2004/108/EC - compatibilità elettromagnetica 2006/95/EC - direttiva bassa tensione
Certificazioni prodotto	CSA CE CULus GL RCM CCC EAC
Temperatura ambiente	-20...60 °C
Temperatura di stoccaggio	-30...60 °C
Grado di protezione IP	IP40 housing: conforme a IEC 60529 IP20 morsetti: conforme a IEC 60529 IP40 Lato frontale: conforme a IEC 60529
Resistenza alle vibrazioni	20 m/s ² (F= 10...150 Hz) conforme a IEC 60068-2-6
Resistenza agli shock	15 gn per 11 ms conforme a IEC 60068-2-27
Umidità relativa	93 %, senza condensa conforme a IEC 60068-2-30
Compatibilità elettromagnetica	Test immunità scarica elettrostatica 6 kV (scarica contatto)livello 3 conforme a EN/IEC 61000-4-2 Test immunità scarica elettrostatica 8 kV (scarico aria)livello 3 conforme a EN/IEC 61000-4-2 Test d'immunità ai transienti rapidi 1 kV (clip collegamento capacitivo)livello 3 conforme a IEC 61000-4-4 Test d'immunità ai transienti rapidi 2 kV (contatto diretto)livello 3 conforme a IEC 61000-4-4 Test di immunità alle sovratensioni 1 kV (modo differenziale)livello 3 conforme a IEC 61000-4-5 Test di immunità alle sovratensioni 2 kV (modo comune)livello 3 conforme a IEC 61000-4-5 Test immunità ai campi elettromagnetici irradiati a radiofrequenza 10 V (0,15...80 MHz)livello 3 conforme a IEC 61000-4-6 Test immunità campo elettromagnetico 10 V/m (80 MHz...1 GHz)livello 3 conforme a IEC 61000-4-3 Immunità alle microrotture e alle cadute di tensione 0.3 (500 ms) conforme a IEC 61000-4-11 Immunità alle microrotture e alle cadute di tensione 1 (20 ms) conforme a IEC 61000-4-11 Emissioni condotte e irradiateclasse B conforme a EN 55022

Confezionamenti

Unità di misura confezione 1	PCE
Numero di unità per confezione 1	1
Confezione 1: altezza	2,500 cm
Confezione 1: larghezza	8,300 cm
Confezione 1: profondità	9,600 cm
Confezione 1: peso	107,000 g

Unità di misura confezione 2	S02
Numero di unità per confezione 2	40
Confezione 2: altezza	15,000 cm
Confezione 2: larghezza	30,000 cm
Confezione 2: profondità	40,000 cm
Confezione 2: peso	4,800 kg

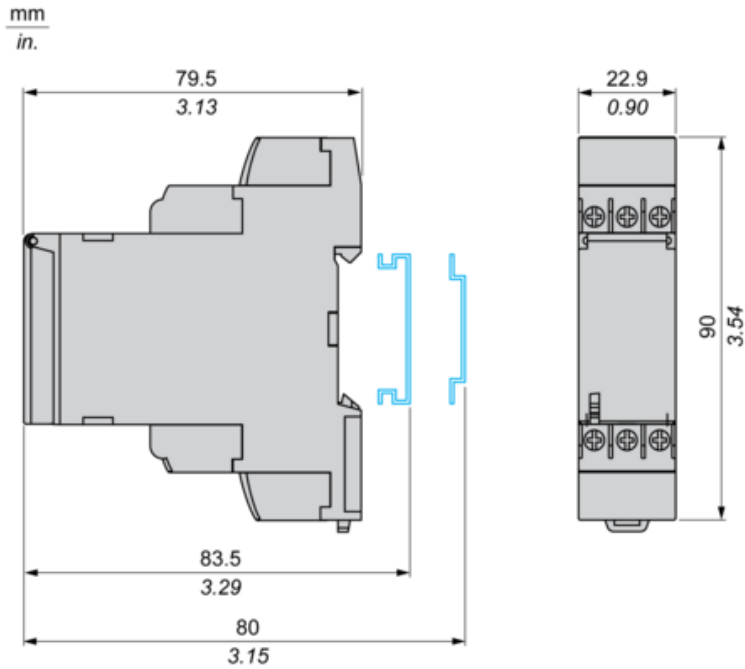
Sostenibilità dell'offerta

Stato offerta sostenibile	Prodotto Green Premium
Regolamento REACH	Dichiarazione REACH
Direttiva RoHS UE	Conformità proattiva (prodotto al di fuori dell'ambito legale di RoHS Unione europea) EU RoHS Dichiarazione
Senza mercurio	Sì
Regolamento RoHS della Cina	Dichiarazione RoHS Della Cina
Informazioni esenzioni RoHS	Sì
Informazioni ambientali	Profilo Ambientale Del Prodotto
Profilo di circolarità	Informazioni Sulla Fine Della Vita

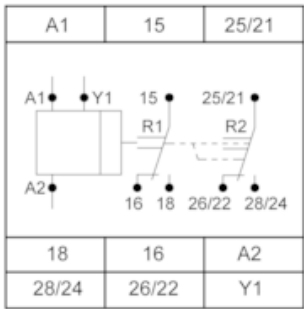
Garanzia contrattuale

Garanzia	18 mesi
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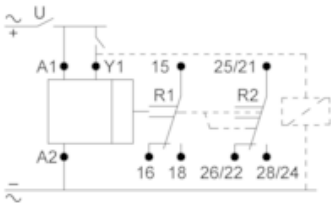
Dimensions



Internal Wiring Diagram



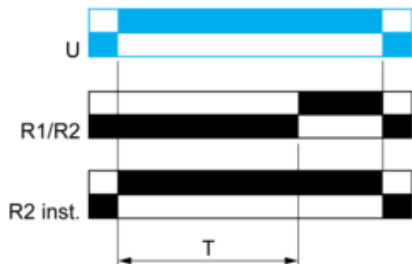
Wiring Diagram



Function A : Power on Delay Relay

Description

The timing period T begins on energization. After timing, the output(s) relay close(s).



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

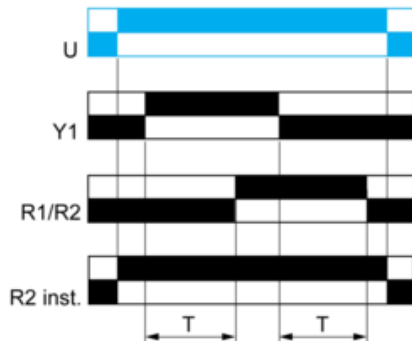
Function Ac : On- and Off-Delay Relay with Control Signal

Description

After power-up, closing of the control contact Y1 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 Y1 re-opens, the timing T starts. At the end of this timing period T

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).

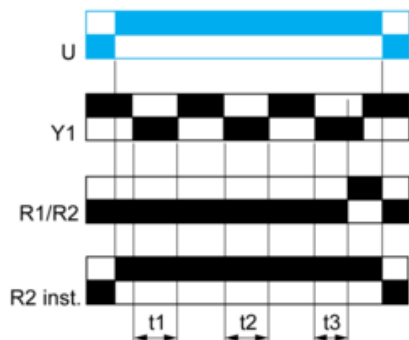


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

Description

After power-up, the first opening of control contact Y1 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.

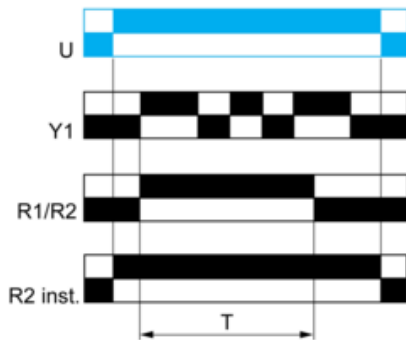


$T = t_1 + t_2 + t_3$

Function B : Interval Relay with Control Signal

Description

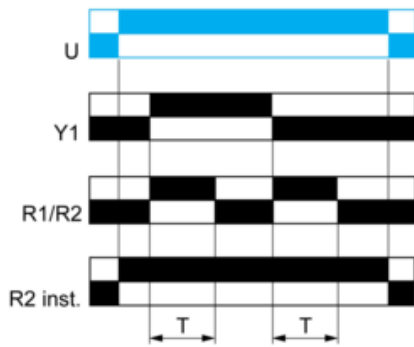
After power-up, pulsing or maintaining control contact Y1 starts the timing T. The output relay closes for the duration of the timing period T then reverts to its initial state.



Function Bw : Double Interval Relay with Control Signal

Description

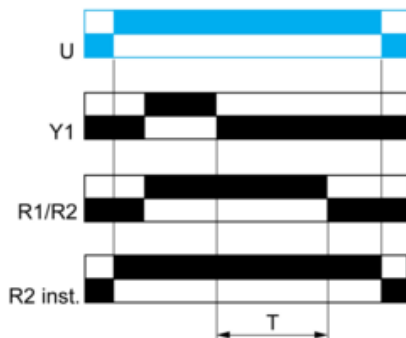
On closing and opening of control contact Y1, the output relay closes for the duration of the timing period T.



Function C : Off-Delay Relay with Control Signal

Description

After power-up and closing of the control contact Y1, the output relay closes. When control contact Y1 re-opens, timing T starts. At the end of the timing period, the output(s) relay revert(s) to its/their initial state.

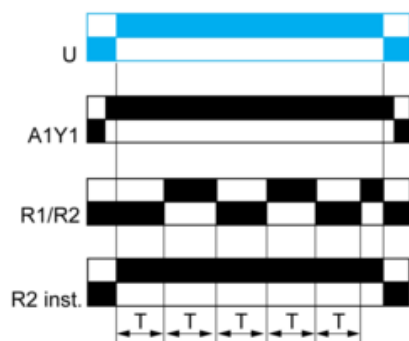


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

Description

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

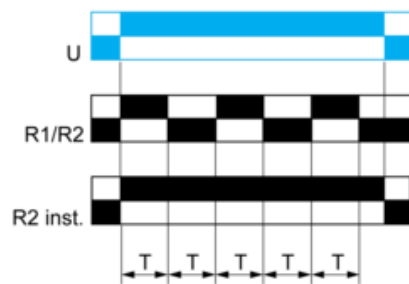


Before power-up Y1 should be permanently connected to A1.
 2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D : Symmetrical Flasher Relay (Starting Pulse On)

Description

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

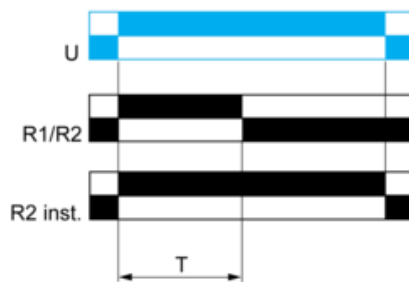


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function H : Interval Relay

Description

On energization of the relay, timing period T starts and the output(s) relay close(s). At the end of the timing period T, the output(s) relay revert(s) to its/their initial state



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

Y1 :	Control contact
R1/R2 :	2 timed outputs
R2 inst. :	The second output is instantaneous if the right position is selected
T :	Timing period
U :	Supply

Function Ht: Interval Relay & With Pause / Summation Control

Description

On energisation of power supply, output(s) R close(s) and timing period T starts.

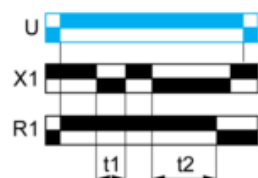
The timing can be interrupted / paused each time X1 energizes.

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.

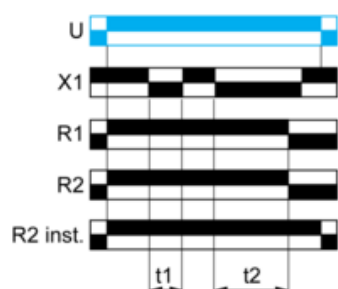
Except for RE17*, RE22R2MMW, RENF22R2MMW, RE22R2MMU and RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.

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

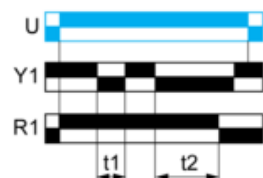
Function: 1 Output



Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Outputs with Retrigger / Restart Control

