Ürün verileri sayfası

Teknik Özellikler

Çok İşlevli Röle, Harmony Zamanlayıcı Röleleri, 8A, 2Co, 0,05S ile 999H Asimetrik Açma Gecikmesi Ve Kapatma Gecikmesi 24 ile 240V AC DC

RENF22R2MMW

Ana

Ürün serisi	Harmony Zamanlayıcı Röleleri
Ürün Ya da Bileşen Tipi	NFC timer relay
Ürün Grubu	RENF22
Ürün için uygulama	Ecostruxure Industrial Device (downloadable from Google Play store or Apple Store)

Tamamlayıcı

Dijital çıkış tipi	Röle
nominal çıkış akımı	8 A
kontak tipi ve düzenleme	2 K/A zamanlı kontak, kadmiyumsuz 1 K/A timed and instantaneous contact, kadmiyumsuz
zaman gecikmesi tipi	Güç açma gecikmesi Açma gecikmesi ve kapatma gecikmesi Darbe gecikmesi Asimetrik açma-gecikme ve kapatma-gecikmesi Yazdırma aralığı Kapatma gecikmesi Simetrik yanıp sönme Güvenlik Yıldız-üçgen Asimetrik yanıp sönme Çift konumlu
zaman gecikme aralığı	0.05 s...999 h
ürün uyumluluğu	NFC özellikli mobil aygıt
Kontrol tipi	Test butonsuz
[Us] nominal besleme gerilimi	24...240 V AC/DC
Giriş gerilimini serbest bırak	<= 2,4 V
gerilim aralığı	0,85...1,1 Un
İletilen maksimum RF gücü	0,0002 mW
NFC çalışma frekansı	13,56 MHz
besleme frekansı	50...60 Hz +/- 5 %
bağlantılar - terminaller	Vidalı terminaller, 1 x 0,5...1 x 3,3 mm² (AWG 20...AWG 12) katı kablo uçsuz Vidalı terminaller, 2 x 0,5...2 x 2,5 mm² (AWG 20...AWG 14) katı kablo uçsuz Vidalı terminaller, 1 x 0,2...1 x 2,5 mm² (AWG 24...AWG 14) esnek Kablo uçlu Vidalı terminaller, 2 x 0,2...2 x 1,5 mm² (AWG 24...AWG 16) esnek Kablo uçlu
sıkma torku	0,6…1 N.m 'e uygunIEC 60947-1 0,6…1,0 N.m 'e uygunIEC 60947-1
muhafaza malzemesi	Polikarbonat

tekrarlama doğruluğu	+/- % 0,2 için 10 s...999 h +/- % 0,5 için 100 ms...10 s +/- 0.7 % için 50...100 ms
sıcaklık sapması	+/- % 0,05/°C
gerilim sapması	+/- % 0,2/V
zaman gecikmesinin ayar doğruluğu	+/- 1 % için 1...999 h -de 25 °C +/- 2 % için 1...3600 s -de 25 °C +/- 20 ms için 100 ms...10 s -de 25 °C +/- 30 ms için 50...100 ms -de 25 °C
Time delay type	Güç açma gecikmesi - A- Power on-delay relay Açma gecikmesi ve kapatma gecikmesi - Ac- On-delay and off-delay relay w/ control signal Darbe gecikmesi - Ad- Pulse delayed relay w/ control signal Darbe gecikmesi - Ah- Pulse delayed relay (single cycle) w/ control signal Açma gecikmesi ve kapatma gecikmesi - Ak- Asymmetrical on-delay and off -delay relay w/ control signal Güç açma gecikmesi - At- Power on-delay relay w/ pause/summation (Y1) Yazdırma aralığı - B- Single interval relay w/ control signal Yazdırma aralığı - Bw- Double interval relay w/ control signal Kapatma gecikmesi - C- Off-delay relay w/ control signal Simetrik yanıp sönme - D- Symmetrical flashing relay (starting pulse-off) Simetrik yanıp sönme - Di- Symmetrical flashing relay (starting pulse-on) Simetrik yanıp sönme - Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/ summation (Y1) Simetrik yanıp sönme - Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/ summation (Y1) Yazdırma aralığı - H- Interval relay Yazdırma aralığı - Ht- Interval relay w/ pause/summation (Y1) Asimetrik yanıp sönme - Li- Asymmetrical flashing relay (starting pulse-on) Asimetrik yanıp sönme - Lt- Asymmetrical fl ashing relay (starting pulse-off) w/ pause/summation (Y1) Asimetrik yanıp sönme - Lit- Asymmetrical flashing relay (starting pulse-on) w/ pause/ summation (Y1) Güvenlik - N- Safe-guard relay Güvenlik - O- Delayed Safe-guard relay Darbe gecikmesi - P- Pulse delayed relay w/ fixed pulse length Darbe gecikmesi - Pt- Pulse delayed relay w/ fixed pulse length and pause/ summation Yıldız-üçgen - Qt- Star-delta relay (2 CO outputs w/ split common) Yıldız-üçgen - Qtt- Star-delta relay (2 CO outputs w/ split common) w/ pause/ summation (Y1) Çift konumlu - TI- Bistable relay w/ control signal on Çift konumlu - Tt- Retriggerable bistable relay w/ control signal on Yazdırma aralığı - W- Interval relay w/ control signal off Asimetrik yanıp sönme - L- Asymmetrical flashing relay (starting pulse-off)
Kontrol sinyali darbe genişliği	100 ms paralel yükle 60 ms yüksüz
yalıtım direnci	100 MOhm -de 500 V DC 'e uygunIEC 60664-1
Kurtarma süresi	120 ms enerji kesmede
VA cinsinden güç tüketimi	3 VA -de 240 V AC
W cinsinden güç tüketimi	1,5 W -de 240 V DC 0,6 W -de 24 V DC
VA cinsinden anahtarlama kapasitesi	2000 VA
minimum anahtarlama akımı	10 mA -de 5 V
maksimum anahtarlama akımı	8 A
maksimum anahtarlama gerilimi	250 V
elektrik dayanıklılığı	100000 cycles için dirençli yük, 8 A -de 250 V, AC
Mekanik dayanıklılık	10000000 cycles
Anlık darbe dayanma voltajı	5 kV 1,2/50 µs 'e uygunIEC 60664-1
Güç açma gecikmesi	100 ms
atlama mesafesi	4 kV/3 'e uygunIEC 60664-1

aşırı gerilim kategorisi	III conforming to IEC 60664-1
güvenlik güvenilirlik verisi	MTTFd = 227.5 years 100 % duty cycle continuous operating condition at 30 °C
montaj konumu	Herhangi bir konum
montaj desteği	35 mm DIN rayı 'e uygunIEC 60715
Durum LED'i	Un, yeşil LED sabit) için güç AÇIK R1, sarı LED sabit) için röle enerjili R2, sarı LED sabit) için röle enerjili Pairing, yeşil LED sabit) için communication status Un, yeşil LED fast blinking) için diagnosis mode R1, sarı LED yanıp söner) için zamanlama devam ediyor R2, sarı LED yanıp söner) için zamanlama devam ediyor
Maksimum iletişim mesafesi	10 mm
fonksiyon mevcuttur	A- Power on-delay relay-2 K/A Ac- On-delay and off-delay relay w/ control signal-2 K/A Ad- Pulse delayed relay w/ control signal-2 K/A Ah- Pulse delayed relay (single cycle) w/ control signal-2 K/A Ak- Asymmetrical on-delay and off -delay relay w/ control signal-2 K/A At- Power on-delay relay w/ pause/summation (Y1)-2 K/A B- Single interval relay w/ control signal-2 K/A Bw- Double interval relay w/ control signal-2 K/A C- Off-delay relay w/ control signal-2 K/A D- Symmetrical flashing relay (starting pulse-off)-2 K/A Di- Symmetrical flashing relay (starting pulse-on)-2 K/A Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/summation (Y1)-2 K/A Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/summation (Y1)-2 K/A H- Interval relay-2 K/A Ht- Interval relay w/ pause/summation (Y1)-2 K/A Li- Asymmetrical flashing relay (starting pulse-on)-2 K/A Lt- Asymmetrical fl ashing relay (starting pulse-off) w/ pause/summation (Y1)-2 K/A Lit- Asymmetrical flashing relay (starting pulse-on) w/ pause/summation (Y1)-2 K/A N- Safe-guard relay-2 K/A O- Delayed Safe-guard relay-2 K/A P- Pulse delayed relay w/ fixed pulse length-2 K/A Pt- Pulse delayed relay w/ fixed pulse length and pause/summation-2 K/A Qt- Star-delta relay (2 CO outputs w/ split common)-2 K/A Qtt- Star-delta relay (2 CO outputs w/ split common) w/ pause/summation (Y1)-2 K/A TI- Bistable relay w/ control signal on-2 K/A Tt- Retriggerable bistable relay w/ control signal on-2 K/A W- Interval relay w/ control signal off-2 K/A L- Asymmetrical flashing relay (starting pulse-off)-2 K/A
işletim sistemi	Androidversion >= V7.0 IOSversion >= V14.5
genişlik	22,5 mm
ürün ağırlığı	0,0904 kg
Fonksiyon sayısı	28

Ortam

mikro kırılmalara bağışıklık	10 ms
dielektrik gücü	2,5 kV için 1 mA/1 dakika -de 50 Hzile between relay output and power supply with basic insulation Ile temel yalıtım
Standartlar	IEC 61000-6-1 IEC 61000-6-2 IEC 61000-6-4 TR 61812-1 IEC 61000-6-3
direktifler	2014/35/EU - alçak gerilim direktifi 2014/53/EU - radyo ekipmanı direktifi 2014/30/EU - elektromanyetik uyumluluk

Ürün Sertifikaları	CE CSA KC UL CCC EAC DNV-GL
Nominal Çalışma Ortam Sıcaklığı	-20…60 °C
Depolama Ortam Koşulları	-40…70 °C
IP koruma derecesi	IP40 muhafaza: conforming to IEC 60529 IP40 ön yüz: conforming to IEC 60529 IP20 terminaller: conforming to IEC 60529
kirletme derecesi	3 'e uygunIEC 60664-1
titreşim direnci	20 m/s² (f= 10…150 Hz) conforming to IEC 60068-2-6
darbe dayanımı	15 gn çalışmıyor için 11 ms 'e uygunIEC 60068-2-27 5 gn çalışma sırasında için 11 ms 'e uygunIEC 60068-2-27
bağıl nem	95 % -de 25…55 °C
elektromanyetik uyumluluk	Elektrostatik deşarj bağışıklık testi - test level: 6 kV seviye 3 (kontak deşarjı) conforming to IEC 61000-4-2 Elektrostatik deşarj bağışıklık testi - test level: 8 kV seviye 3 (hava deşarjı) conforming to IEC 61000-4-2 Hızlı geçici bağışıklık testi - test level: 1 kV seviye 3 (kapasitif bağlantı klipsi) conforming to IEC 61000-4-4 Hızlı geçici bağışıklık testi - test level: 2 kV seviye 3 (doğrudan kontak) conforming to IEC 61000-4-4 Kesinti bağışıklık testi - test level: 1 kV seviye 3 (diferansiyel mod) conforming to IEC 61000-4-5 Kesinti bağışıklık testi - test level: 2 kV seviye 3 (ortak mod) conforming to IEC 61000-4-5 Yayılmalı, radyo frekansı elektromanyetik alan bağışıklık testi - test level: 10 V seviye 3 (0,15...80 MHz) conforming to IEC 61000-4-6 Elektromanyetik alan bağışıklık testi - test level: 10 V/m seviye 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Mikro kırılmalara ve gerilim düşüşlerine bağışıklık - test level: % 30 (500 ms) conforming to IEC 61000-4-11 Mikro kırılmalara ve gerilim düşüşlerine bağışıklık - test level: % 100 (20 ms) conforming to IEC 61000-4-11 Yayılmalı emisyon sınıf B conforming to EN 55022 Iletimli emisyon sınıf A conforming to EN 55022 Elektromanyetik alan bağışıklık testi - test level: 3 V/m seviye 2 (1,4 GHz...2 GHz) conforming to IEC 61000-4-3 Elektromanyetik alan bağışıklık testi - test level: 1 V/m level 1 (2...2,7 GHz) conforming to IEC 61000-4-3

Paketleme üniteleri

Unit Type of Package 1	PCE
Paketteki birim sayısı	1
Package 1 Height	2,4 cm
Package 1 Width	8,05 cm
Package 1 Length	9,45 cm
Paket ağırlığı (Lbs)	103,635 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	4,616 kg
Unit Type of Package 3	P06

Number of Units in Package 3	640
Package 3 Height	70,0 cm
Package 3 Width	60,0 cm
Package 3 Length	80,0 cm
Package 3 Weight	84,13 kg

Sözleşme garantisi

Garanti (ay olarak)	18

Environmental Data

Schneider Electric, ürün kullanım ömrünü ve geri dönüştürülebilirliği uzatmak amacıyla devam eden "Use Better, Use Longer, Use Again" kampanyamız aracılığıyla tedarik zinciri ortaklıkları, daha düşük etki malzemeleri ve döngü yoluyla 2050 yılına kadar Net Sıfır değerine ulaşmayı hedeflemektedir.

Açıklanan Environmental Data >

Ürün sürdürülebilirliğini nasıl değerlendiriyoruz >

Çevresel ayak izi

Toplam yaşam döngüsü Karbon ayak izi	**64 kg CO2 eq.**
Üretim aşamasının karbon ayak izi [A1–A3]	**2 kg CO2 eq.**
Dağıtım aşamasının karbon ayak izi [A4]	**0 kg CO2 eq.**
Kurulum aşamasının karbon ayak izi [A5]	**0 kg CO2 eq.**
Kullanım aşamasının karbon ayak izi [B2, B3, B4, B6]	**62 kg CO2 eq.**
Ömür sonu aşamasının karbon ayak izi [C1–C4]	**0.1 kg CO2 eq.**
Çevre Beyanı	**Çevresel Ürün Profili**

Use Better

Malzemeler ve Ambalajlama

Geri dönüşüm kartonlu paket	**Evet**
Plastik olmayan ambalaj	**Evet**
CIP Numarası	**7bdc2711-0ad2-427c-8ece-532c5e9f09d7**
AB RoHS Direktifi	**Muafiyetle Uyumlu**
REACh Yönetmeliği	**Referans, eşik üzerinde SVHC içermekte**

Use Longer

Kullanım ömrü uzatma

Onarım	**Hayır**

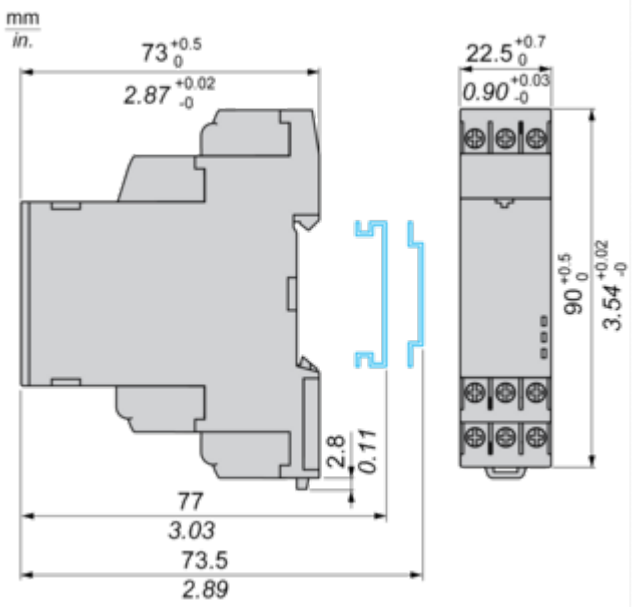
Use Again

Yeniden paketleme ve yeniden üretim

Döngüsellik Profili	**Kullanım Sonu Bilgileri**
Geri alma	**Yok**

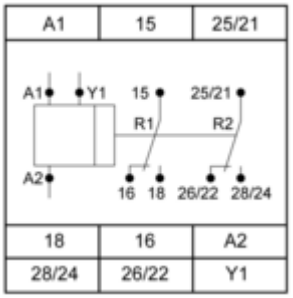
Dimensions Drawings

Dimensions

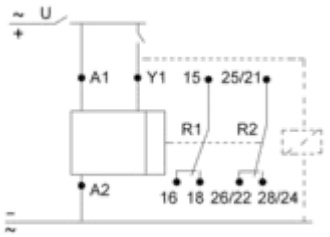


Connections and Schema

Internal Wiring Diagram



Wiring Diagram



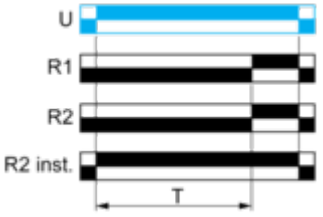
Technical Description

Function A: Power On-Delay Relay

Description

On energisation of power supply, the timing period T starts. After timing, the output(s) R close(s).The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

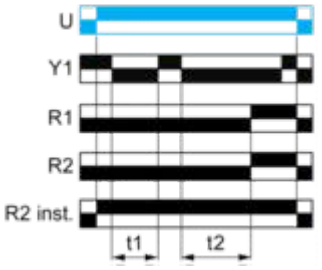


Function At: Power On-Delay Relay with Pause / Summation Control Signal

Description

On energisation of power supply, the timing period T starts.Timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R close(s).The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



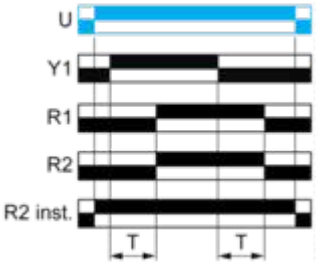
T = t1 + t2 +…

Function Ac: On-Delay and Off-Delay Relay 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: 2 Output

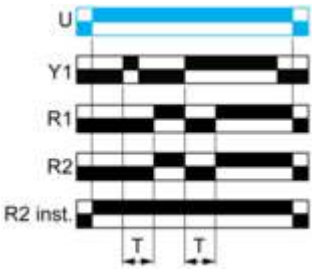


Function Ad : Pulse Delayed Relay with Control Signal

Description

After energisation of power supply, pulsing or maintaining of energization of Y1 starts the timing T.
At the end of this timing period T, the output(s) R close(s).
The output(s) R reverts to its initial position the next time Y1 is energized in pulsation or permanent energized manner.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

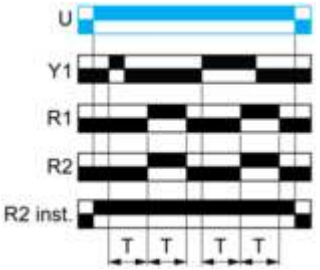


Function Ah : Pulse Delayed Relay (Single Cycle) with Control Signal

Description

After energisation of power supply, pulsing or maintaining of energization of Y1 starts the timing T.
A single flashing cycle then starts with 2 timing periods T of equal duration (start with output(s) R in initial position).
Output(s) 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.
Re-energizing of Y1, either in pulsation or permanent energized manner, will re-start the single flashing cycle again.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

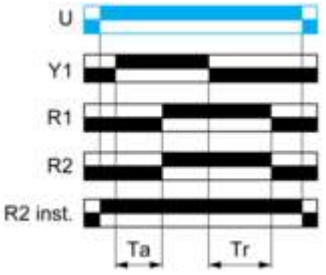


Function Ak: Asymmetrical On-Delay and Off-Delay Relay With Control Signal

Description

After energisation of power supply and energization of Y1, timing starts for a period Ta.
At the end of this timing period Ta, the output(s) R closes.
Deenergization of Y1 causes a second timing period Tr to start.
At the end of this timing period Tr, the output(s) R reverts to its initial state.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

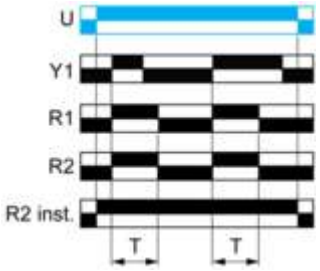


Function B: Single Interval Relay with Control Signal

Description

After energisation of power supply, pulsing or maintaining of energization of Y1 starts the timing T.
The output(s) R close(s) for the duration of the timing period T then revert(s) to its/their initial state.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

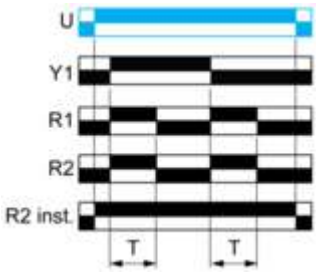


Function Bw : Double Interval Relay with Control Signal

Description

After energisation of power supply, transition of Y1 (either from energization to deenergization or vice-versa) will cause the output(s) R close(s) for the duration of the timing period T then revert(s) to its/their initial state.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

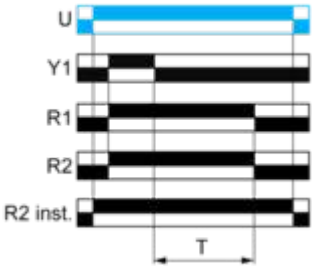


Function C: Off-Delay Relay with Control Signal

Description

After energisation of power supply and energization of Y1 causes output(s) R close(s). When Y1 deenergizes, 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: 2 Output

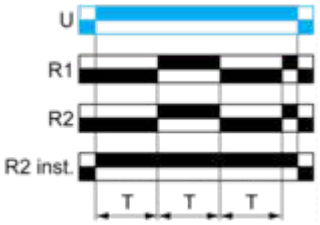


Function D: Symmetrical Flashing Relay (Starting Pulse-Off)

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

Function: 2 Output

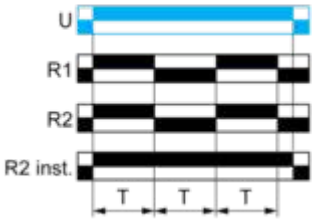


Function Di: Symmetrical Flashing Relay (Starting Pulse-On)

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T then revert(s) to its/their initial state for the same timing duration T.This cycle is repeated indefintely until power supply removal.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

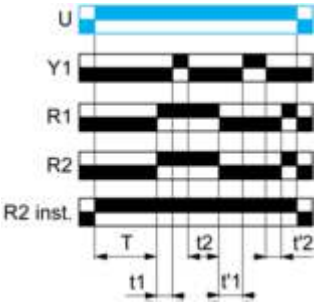


Function Dt: Symmetrical Flashing Relay (Starting Pulse-Off) With Pause / Summation Control Signal

Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T and the timing can be interrupted / paused each time Y1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, then changes to output(s) R close(s).The output(s) R close state will remain for the same timing duration T and the timing can be interrupted / paused each time Y1 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.This cycle is repeated indefintely until power supply removal.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



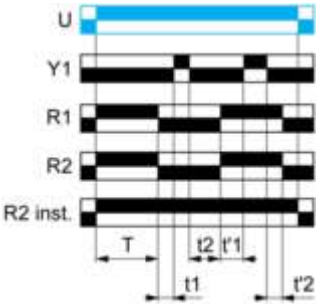
T = t1 + t2 +…
T = t'1 + t'2 +…

Function Dit: Symmetrical Flashing Relay (Starting Pulse-On) With Pause / Summation Control Signal

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T and the timing can be interrupted / paused each time Y1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, then revert(s) to its/their initial state.The output(s) R at initial state will remain for the same timing duration T and the timing can be interrupted / paused each time Y1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R change(s) to close state.This cycle is repeated indefinitely until power supply removal.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



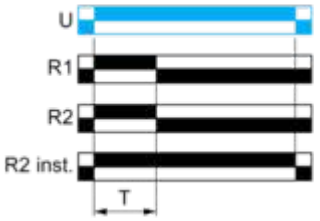
T = t1 + t2 +…
T = t'1 + t'2 +…

Function H: Interval Relay

Description

On energisation of power supply, output(s) R close(s) and timing period T starts.At the end of the timing period T, the output(s) R revert(s) to its/their initial state.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

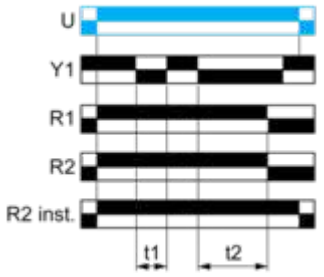


Function Ht: Interval Relay With Pause / Summation Control Signal

Description

On energisation of power supply, output(s) R close(s) and timing period T starts.The timing can be interrupted / paused each time Y1 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. The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 2 Output



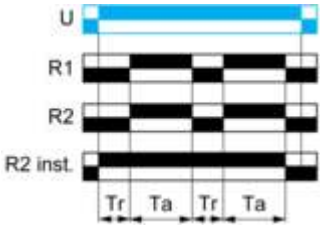
T = t1 + t2 +…

Function L: Asymmetrical Flashing Relay (Starting Pulse-Off)

Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration Tr then change(s) to output(s) R close(s) for the another timing duration Ta.
This cycle is repeated indefinitely until power supply removal.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

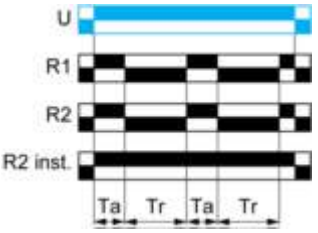


Function Li: Asymmetrical Flashing Relay (Starting Pulse-On)

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration Ta then change(s) to its/their initial state for timing duration Tr.
This cycle is repeated indefinitely until power supply removal.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

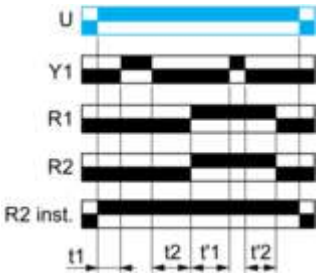


Function Lt: Asymmetrical Flashing Relay (Starting Pulse-Off) With Pause / Summation Control Signal

Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration Tr and the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Tr, then changes to output(s) R close(s).
The output(s) R close state will remain for the same timing duration Ta and the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Ta, the output(s) R revert(s) to its/their initial state.
This cycle is repeated indefinitely until power supply removal.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



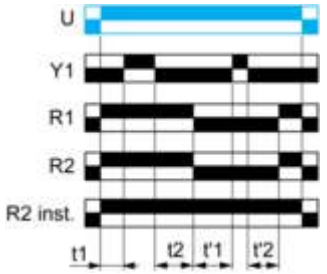
Tr = t1 + t2 +…
Ta = t'1 + t'2 +…

Function Lit: Asymmetrical Flashing Relay (Starting Pulse-On) With Pause / Summation Control Signal

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration Ta and the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Ta, the output(s) R revert(s) to its/their initial state.
The output(s) R at initial state will remain for timing duration Tr the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Tr, then changes to output(s) R close(s)
This cycle is repeated indefinitely until power supply removal.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



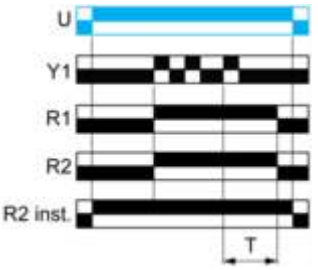
Ta = t1 + t2 +…
Tr = t'1 + t'2 +…

Function N : Safe-Guard Relay

Description

After energisation of power supply and on energization of Y1 cause the output(s) R close(s) and starts the timing T.
If the duration interval between 2 consecutive energization of Y1 is greater than the pre-set value T, the output(s) R close(s) at the end of the timing period.
If the duration interval between 2 consecutive energization of Y1 is less than the pre-set value T, the output(s) R remain(s) closed and timing restarted base on the last energization of Y1.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

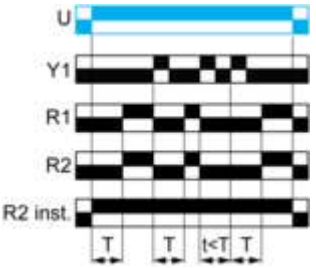


Function O : Delayed Safe-Guard Relay

Description

On energisation of power supply, the timing T starts.
At the end of this timing period, the output(s) R close(s).
On energization of Y1, the output(s) R revert(s) to its/their initial state and the timing T restarts.
If the duration interval between 2 consecutive energization of Y1 is greater than the pre-set value T, the output(s) R close(s) at the end of the timing period.
If the duration interval between 2 consecutive energization of Y1 is less than the pre-set value T, the output(s) R remain(s) at its/their initial state and timing restarted base on the last energization of Y1.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

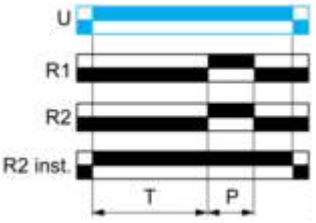


Function P : Pulse Delayed Relay with Fixed Pulse Length

Description

On energisation of power supply, the timing T starts.
At the end of this period, the output(s) R close(s) for a fixed time P then revert(s) to its/their initial state.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



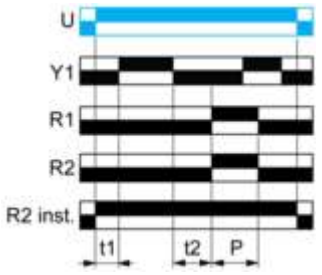
P = 500ms

Function Pt : Pulse Delayed Relay With Fixed Pulse Length and Pause / Summation Control Signal

Description

On energisation of power supply, the timing T starts.
The timing can be interrupted / paused each time Y1 energizes.
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R close(s) for a fixed time P then revert(s) to its/their initial state.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



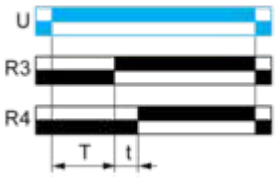
T = t1 + t2 + …
P = 500ms

Function Qt: Star-Delta Relay (2 CO Outputs with Split Common)

Description

On energisation of power supply, the output R3 & R4 initializes at its initial state such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts).At the end of the timing period T, the output R3 closes such that deenergizes STAR CONTACTOR and causes t transition time starts.At the end of the transition time, the output R4 closes such that energizes DELTA CONTACTOR. Diagnostic feature not available.

Function: 2 Output



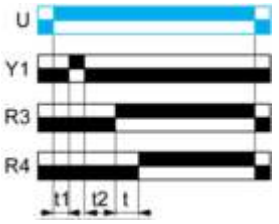
T = 50, 60... ms

Function Qtt: Star-Delta Relay (2 CO Outputs With Split Common) with Pause / Summation Control Signal

Description

On energisation of power supply, the output R3 & R4 initializes at its initial state such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts).During STAR connection time, the timing can be interrupted / paused each time Y1 energizes.When the cumulative total of time periods elapsed reaches the pre-set value T, the output R3 closes such that deenergizes STAR CONTACTOR and causes t transition time starts.At the end of the transition time, the output R4 closes such that energizes DELTA CONTACTOR. Diagnostic feature not available.

Function: 2 Output



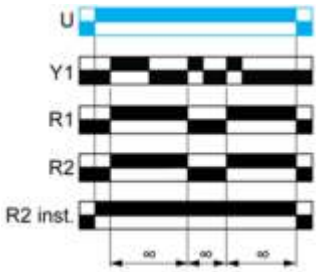
T = t1 + t2 +...
t = 50, 60 ... ms

Function TL : Bistable Relay with Control Signal On

Description

After energisation of power supply and on energization of Y1 cause the output(s) R close(s). The subsequent on energization of Y1 cause the output(s) R revert(s) to its/their initial state.
This cycle is repeated indefinitely until power supply removal.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

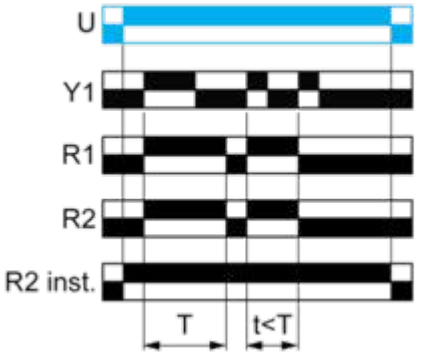


Function Tt : Retriggerable Bistable Relay with Control Signal On

Description

After energisation of power supply and on energization of Y1 cause the output(s) R close(s) and starts the timing T.
If the duration interval between 2 consecutive energization of Y1 is greater than the pre-set value T, the output(s) R will toggle from its/their present status the end of the timing period.
If the duration interval between 2 consecutive energization of Y1 is less than the pre-set value T, the output(s) R toggle from its/their present status as soon as Y1 energizes without completing T duration.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output

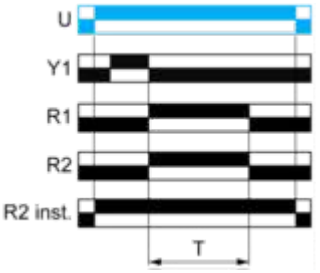


Function W: Interval Relay with Control Signal Off

Description

After energisation of power supply and on energization of Y1 following by denergization of Y1, the output(s) R close(s) and starts the timing T.At the end of the timing period, the output(s) R revert(s) to its/their initial state.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 2 Output



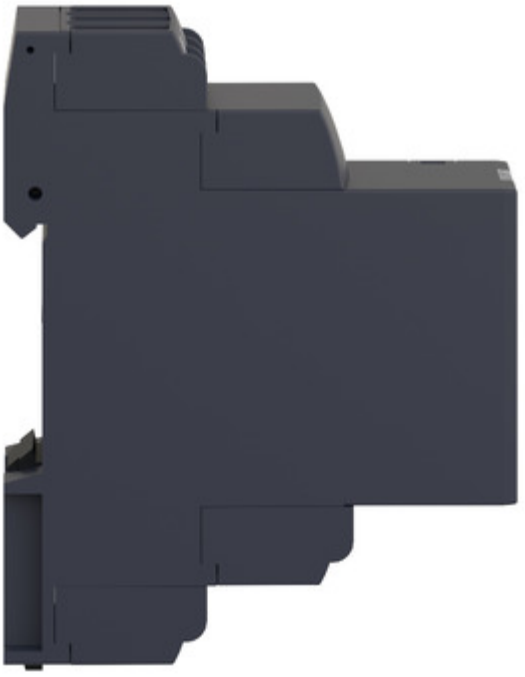
Legend

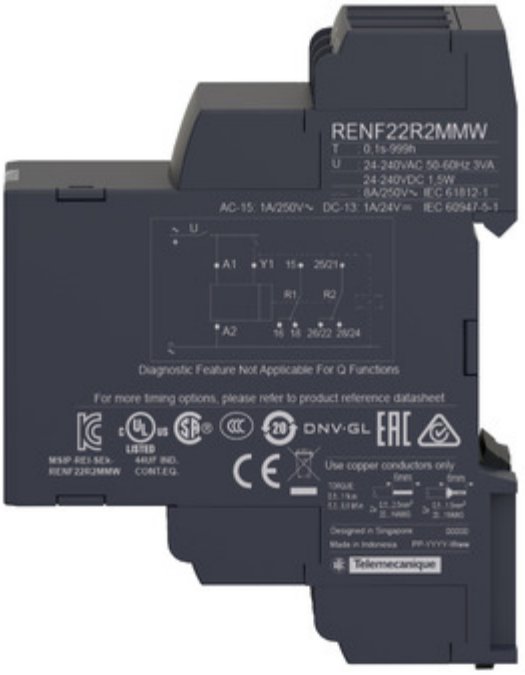
Relay de-energised
Relay energised
Output open
Output closed

U -	Supply
R1/R2 -	2 timed outputs
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
Y1 -	Retrigger / Restart control
R2 inst. -	The second output is instantaneous if the right position is selected
T -	Timing period
R4 -	Delta contact output
t -	Delay to switch ON Delta contact output
R3 -	Star-Delta contact output

Image of product / Alternate images

Alternative




RENF22R2MMW
T 0.1s-999h
U 24-240VAC 50-60Hz 3VA
24-240VDC 1.5W
8A/250V~ IEC 61812-1
AC-15: 1A/250V~ DC-13: 1A/24V⎓ IEC 60947-5-1
A1 Y1 15 26/21
R1 R2
A2 18 28/22 28/24
Diagnostic Feature Not Applicable For Q Functions
For more timing options, please refer to product reference datasheet
DNV·GL
Use copper conductors only
Designed in Singapore
Made in Indonesia
Telemecanique


A1
15
25/21
RENF22R2MMW
NFC
R2
R1
Un
18
16
A2
28/24
26/22
Y1