Tuotetiedot

Tekniset tiedot

Aikarele, Harmony Time, monitoimi, NFC, 0,1 s…999 h, syöttö 24…240 V AC/DC, 2 vaihtokoskettimet

Sähkönumero:

2721235 RENF22R2MMW

GTIN-koodi: 3606480936203

Tuotetiedot

Tuoteryhmä	Harmony Timer Relays
Tuote Tai Komponentti Tyyppi	Multifunction relay
Laitteen Lyhytnimi	RENF22
Supported Os	Android
Ohjelmistoversio	V4.4 ja yli
App For Product	Zelio NFC (ladattavissa Google Play -kaupasta)

Täydentävät tiedot

Lähdön Tyyppi	Rele
Nimellinen Lähtövirta	8 A
Liittimien Tyyppi Ja Koostumus	2 C/O Ajastettu liitin, Kadmiumvapaa 1 C/O ajastettu ja välitön liitin, Kadmiumvapaa
Aikaviiveen Tyyppi	Power on-delay On-delay and off-delay Pulse delay Asymmetrical on-delay and off-delay Interval Pois päältä -viive Symmetrical flashing Safe-guard Star-delta Asymmetrical flashing Bistable
Aikaviiveen Alue	0.05 s...999 h
Tuotteen Soveltuvuus	NFC-yhteensopiva mobiililaite
[Us] Nimellissyöttöjännite	24...240 V AC/DC
Release Input Voltage	<= 2,4 V
Jännitealue	0,85...1,1 Un
Maximum Rf Power Transmitted	0,0002 mW
Nfc Operating Frequency	13,56 MHz
Syöttötaajuus	50...60 Hz +/- 5 %
Kytkentä - Liittimet	Ruuviliitin, 1 x 0.5...1 x 3.3 mm² (AWG 20...AWG 12) Kiinteä Ilman kaapelipäätettä Ruuviliitin, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) Kiinteä Ilman kaapelipäätettä Ruuviliitin, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 14) Taipuisa Johdinpäätteellä Ruuviliitin, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) Taipuisa Johdinpäätteellä
Kiristysmomentti	0,6…1 N.m IEC 60947-1 0,60…0,99 N.m IEC 60947-1
Kotelon Materiaali	Itsestään sammuva

Toistotarkkuus	+/- 0,2 % 10 s...999 h aikaviivealueella +/- 0,5 % 100 ms...10 s aikaviivealueella +/- 0.7 % 50...100 ms aikaviivealueella
Lämpötilan Ryömintä	+/- 0,05 %/°C
Jännitteen Ryömintä	+/- 0,2 %/V
Asettelun Tarkkuus Aikaviiveelle	+/- 1 % 1...999 h aikaviivealueella25 °C +/- 2 % 1...3600 s aikaviivealueella25 °C +/- 20 ms 100 ms...10 s aikaviivealueella25 °C +/- 30 ms 50...100 ms aikaviivealueella25 °C
Control Signal Pulse Width	100 ms Kun kuorma rinnalla 60 ms Ei kuormaa
Eristysresistanssi	100 MOhm 500 V DC IEC 60664-1
Recovery Time	120 ms Syötön poiskytkennästä
Tehonkulutus Va	3 VA 240 V AC
Tehonkulutus W	1,5 W 240 V DC 0,6 W 24 V DC
Kytkentäkapasiteetti Va	2000 VA
Minimi Kytkentävirta	10 mA 5 V
Maksimi Kytkentävirta	8 A
Maksimi Kytkentäjännite	250 V
Sähköinen Kestävyys	100000 Syklit Resistiivinen kuorma, 8 A 250 V, AC
Mekaaninen Kestävyys	10000000 Syklit
Rated Impulse Withstand Voltage	5 kV 1,2/50 µs IEC 60664-1
Power On Delay	100 ms
Creepage-Etäisyys	4 kV/3 IEC 60664-1
Ylijännite Kategoria	III IEC 60664-1
Turvallisuuden Luotettavuus -Data	MTTFd = 227,5 vuotta 100 % duty cycle continuous operating condition at 30 °C
Asennuskohta	Kaikki asennot
Asennusalusta	35 mm DIN-kisko IEC 60715
Status Led	Un, Vihreä LED: (Vakaa)Virta päällä R1, Kullanruskea LED: (Vakaa)relay energised R2, Kullanruskea LED: (Vakaa)relay energised Pairing, Vihreä LED: (Vakaa)Viestinnän tila Un, Vihreä LED: (Nopeasti vilkkuva)Diagnoositila R1, Kullanruskea LED: (Vilkkuva)Aikatoiminto käynnissä R2, Kullanruskea LED: (Vilkkuva)Aikatoiminto käynnissä
Maximum Communication Distance	10 mm

Funktio Saatavilla	A- Power on-delay relay-2 C/O Ac- On-delay and off-delay relay w/ control signal-2 C/O Ad- Pulse delayed relay w/ control signal-2 C/O Ah- Pulse delayed relay (single cycle) w/ control signal-2 C/O Ak- Asymmetrical on-delay and off -delay relay w/ control signal-2 C/O At- Power on-delay relay w/ pause/summation (Y1)-2 C/O B- Single interval relay w/ control signal-2 C/O Bw- Double interval relay w/ control signal-2 C/O C- Off-delay relay w/ control signal-2 C/O D- Symmetrical flashing relay (starting pulse-off)-2 C/O Di- Symmetrical flashing relay (starting pulse-on)-2 C/O Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/summation (Y1)-2 C/O Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/summation (Y1)-2 C/O H- Interval relay-2 C/O Ht- Interval relay w/ pause/summation (Y1)-2 C/O Li- Asymmetrical flashing relay (starting pulse-on)-2 C/O Lt- Asymmetrical fl ashing relay (starting pulse-off) w/ pause/summation (Y1)-2 C/O Lit- Asymmetrical flashing relay (starting pulse-on) w/ pause/summation (Y1)-2 C/O N- Safe-guard relay-2 C/O O- Delayed Safe-guard relay-2 C/O P- Pulse delayed relay w/ fixed pulse length-2 C/O Pt- Pulse delayed relay w/ fixed pulse length and pause/summation-2 C/O Qt- Star-delta relay (2 CO outputs w/ split common)-2 C/O Qtt- Star-delta relay (2 CO outputs w/ split common) w/ pause/summation (Y1)-2 C/O TI- Bistable relay w/ control signal on-2 C/O Tt- Retriggerable bistable relay w/ control signal on-2 C/O W- Interval relay w/ control signal off-2 C/O L- Asymmetrical flashing relay (starting pulse-off)-2 C/O
Leveys	22,5 mm
Tuotteen Paino	0,0904 kg

Ympäristötiedot

Suojattu Sähkönjakelun Pienhäiriöiltä	10 ms
Läpilyöntilujuus	2,5 kV 1 mA/1 minuutti 50 Hz kanssa between relay output and power supply with basic insulation kanssa Peruseristyksellä
Standardit	IEC 61000-6-1 IEC 61000-6-2 IEC 61000-6-4 EN 61812-1 IEC 61000-6-3
Direktiivit	2014/35/EU - pienjännitedirektiivi 2014/53/EU - radiolaitedirektiivi 2014/30/EU - EMC-yhteensopivuus
Tuote Sertifiointi	CE CSA KC UL CCC EAC DNV-GL
Ympäristön Lämpötila Käytettäessä	−20…60 °C
Ympäristön Lämpötila Varastoitaessa	−40…70 °C
Ip Suojausluokka	IP40 Peitteet: conforming to IEC 60529 IP40 Etulevy: conforming to IEC 60529 IP20 Liittimet: conforming to IEC 60529
Epäpuhtausaste	3 IEC 60664-1
Tärinänkestoisuus	20 m/s² (f= 10…150 Hz)IEC 60068-2-6
Iskunkestävyys	15 gn Ei käytössä 11 ms IEC 60068-2-27 5 gn Toiminnassa 11 ms IEC 60068-2-27
Suhteellinen Kosteus	95 % 25…55 °C

Sähkömagneettinen Yhteensopivuus	Elektrostaattisen purkauksen sietotesti - test level: 6 kV Taso 3 (Kosketinpurkaus) conforming to IEC 61000-4-2 Elektrostaattisen purkauksen sietotesti - test level: 8 kV Taso 3 (Ilmapurkautus) conforming to IEC 61000-4-2 Transienttipulssien sietotesti - test level: 1 kV Taso 3 (Kapasitiivinen liitäntäpidike) conforming to IEC 61000-4-4 Transienttipulssien sietotesti - test level: 2 kV Taso 3 (Suora kontakti) conforming to IEC 61000-4-4 Ylijännitesuojan testi - test level: 1 kV Taso 3 (Eromuotoinen) conforming to IEC 61000-4-5 Ylijännitesuojan testi - test level: 2 kV Taso 3 (Yhteismuotoinen) conforming to IEC 61000-4-5 Säteilevän radiotaajuisen sähkömagneettisen kentän häiriönsietotesti - test level: 10 V Taso 3 (0.15...80 MHz) conforming to IEC 61000-4-6 Sähkömagneettisen kentän sietotesti - test level: 10 V/m Taso 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Kestää mikrokatkoja ja jännitealenemaa - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Kestää mikrokatkoja ja jännitealenemaa - test level: 100 % (20 ms) conforming to IEC 61000-4-11 Säteilyemissio Luokka B conforming to EN 55022 Johtuvat häiriöt Luokka A conforming to EN 55022 Sähkömagneettisen kentän sietotesti - test level: 3 V/m Taso 2 (1,4 GHz...2 GHz) conforming to IEC 61000-4-3 Sähkömagneettisen kentän sietotesti - test level: 1 V/m Taso 1 (2...2,7 GHz) conforming to IEC 61000-4-3

Pakkaustiedot

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2,4 cm
Package 1 Width	8,05 cm
Package 1 Length	9,45 cm
Package 1 Weight	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

Kestävä kehitys

Green Premium™ -merkki osoittaa Schneider Electricin sitoumuksen toimittaa tuotteita, jotka ovat luokkansa ympäristöystävällisimpiä. Green Premium takaa uusimpien säädösten noudattamisen, ympäristövaikutusten läpinäkyvyyden sekä kiertotaloutta edistävät ja vähähiiliset tuotteet.
Tuotteen kestävän kehityksen arviointiopas on White Paper -julkaisu, jossa selvennetään maailmanlaajuisia ympäristömerkintästandardeja ja ympäristöilmoitusten tulkintaa.

Lue lisää Green Premiumista >

Opas kaupallisen tuotteen kestävän kehityksen arviointiin >


Avoimuus RoHS/REACh

Hyvinvointi

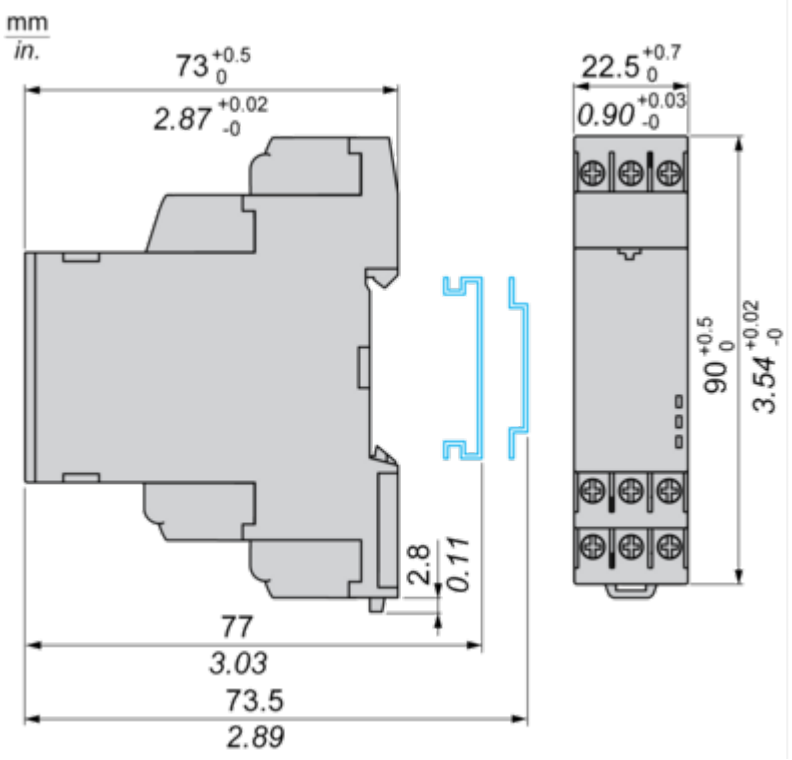
Ei Elohopeaa	
Rohs-Vapautuksen Tiedot	Kyllä

Sertifioinnit ja standardit

Reach-Asetus	REACh-ilmoitus
Eu:N Rohs-Direktiivi	Proaktiivinen vaatimustenmukaisuus (tuote ei kuulu EU:n RoHS-direktiivin piiriin)
Kiinan Rohs-Säädökset	Kiinan RoHS-ilmoitus
Ympäristöilmoitus	Tuotteen ympäristöprofiili
Kiertoprofiili	Elinkaaren lopun tiedot

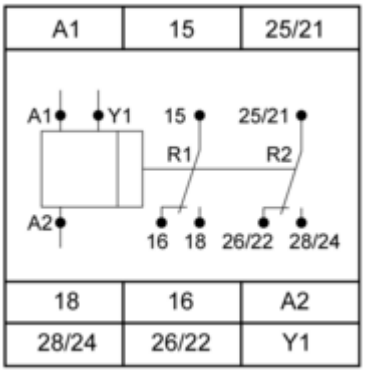
Dimensions Drawings

Dimensions

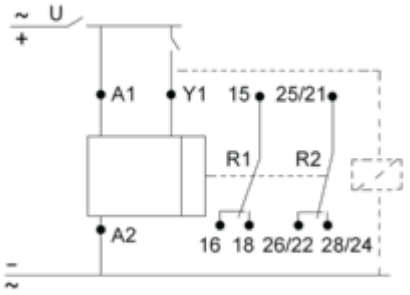


Connections and Schema

Internal Wiring Diagram



Wiring Diagram



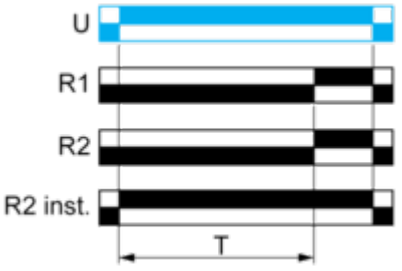
Technical Description

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

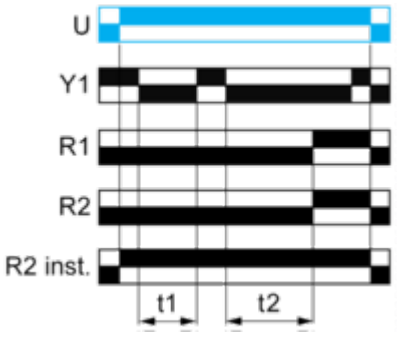


Function At: Power On-Delay Relay with Pause / Summation Control Signal

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



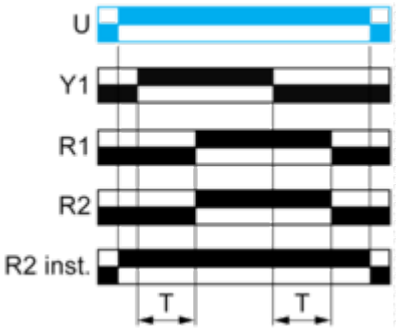
T = t1 + t2 +…

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

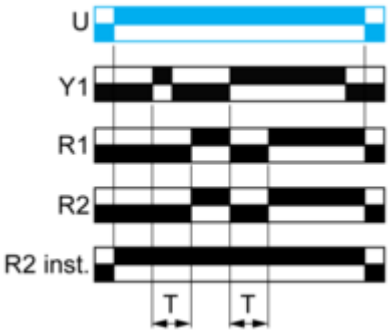


Function Ad : Pulse Delayed Relay with Control Signal

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

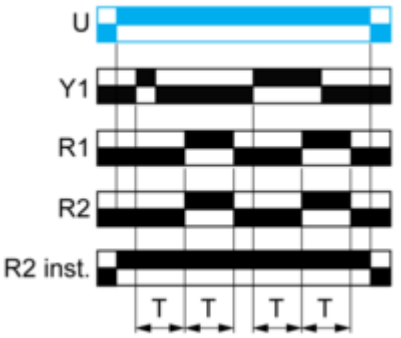


Function Ah : Pulse Delayed Relay (Single Cycle) with Control Signal

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

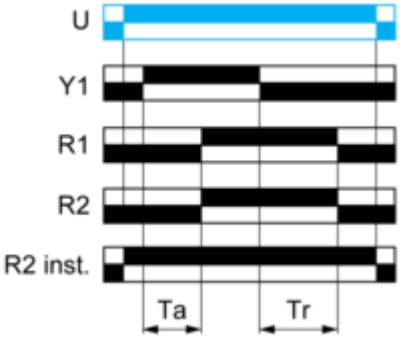


Function Ak: Asymmetrical On-Delay and Off-Delay Relay With Control Signal

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

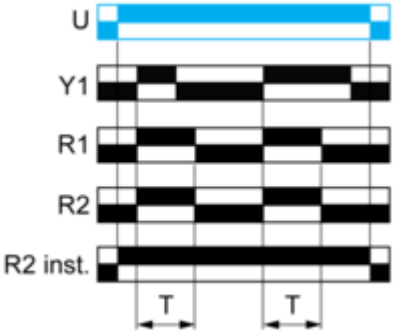


Function B: Single Interval Relay with Control Signal

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

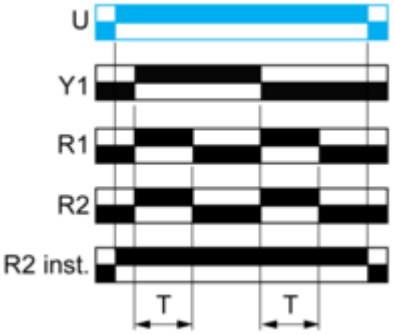


Function Bw : Double Interval Relay with Control Signal

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

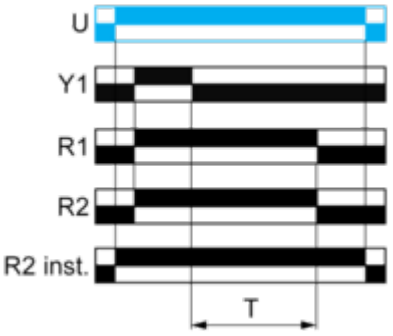


Function C: Off-Delay Relay with Control Signal

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

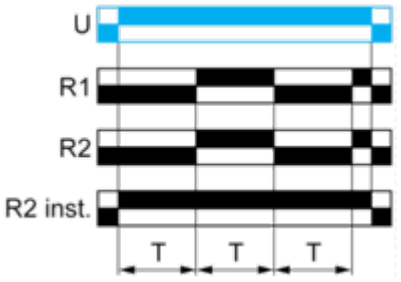


Function D: Symmetrical Flashing Relay (Starting Pulse-Off)

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

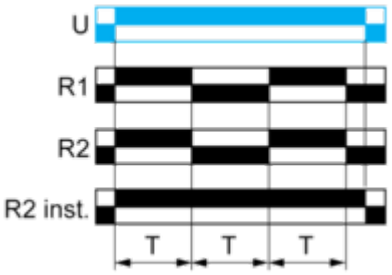


Function Di: Symmetrical Flashing Relay (Starting Pulse-On)

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

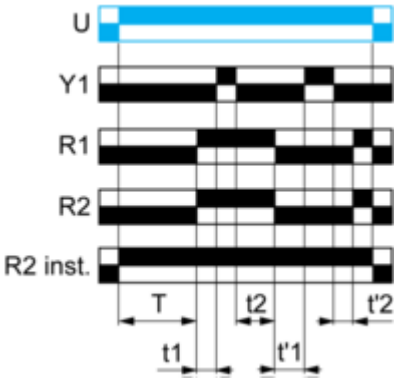


Function Dt: Symmetrical Flashing Relay (Starting Pulse-Off) With Pause / Summation Control Signal

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



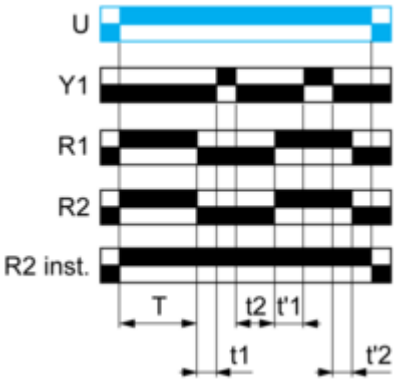
T = t1 + t2 +…
T = t'1 + t'2 +…

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



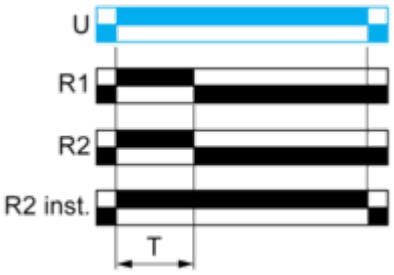
T = t1 + t2 +…
T = t'1 + t'2 +…

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

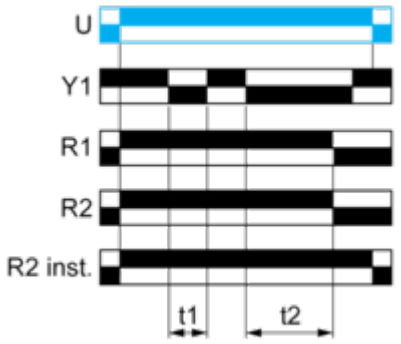


Function Ht: Interval Relay With Pause / Summation Control Signal

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



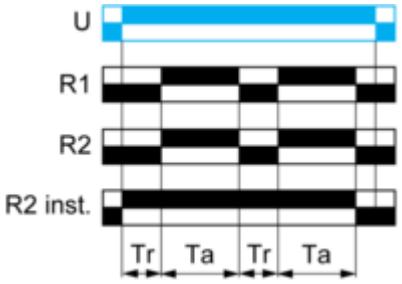
T = t1 + t2 +…

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

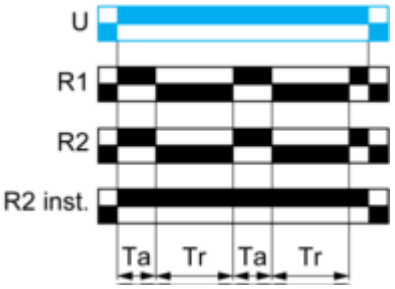


Function Li: Asymmetrical Flashing Relay (Starting Pulse-On)

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

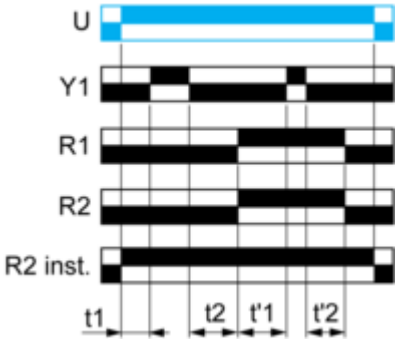


Function Lt: Asymmetrical Flashing Relay (Starting Pulse-Off) With Pause / Summation Control Signal

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



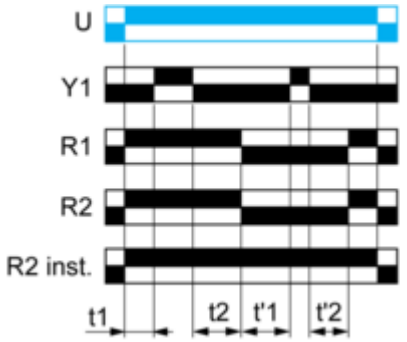
Tr = t1 + t2 +…
Ta = t'1 + t'2 +…

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



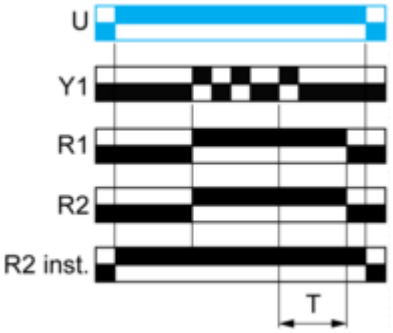
Ta = t1 + t2 +…
Tr = t'1 + t'2 +…

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

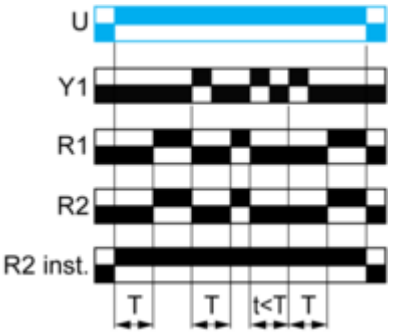


Function O : Delayed Safe-Guard Relay

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

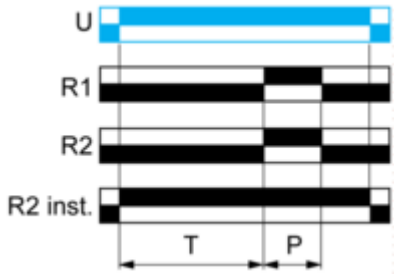


Function P : Pulse Delayed Relay with Fixed Pulse Length

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



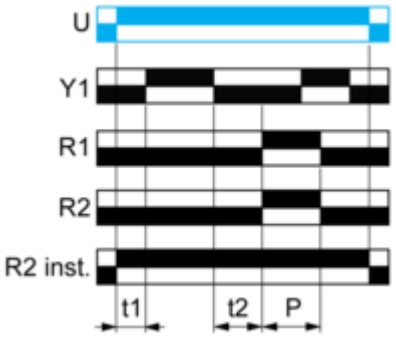
P = 500ms

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



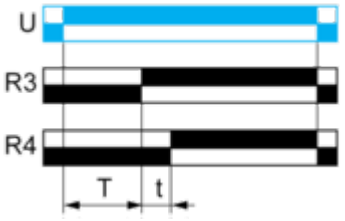
T = t1 + t2 + …
P = 500ms

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



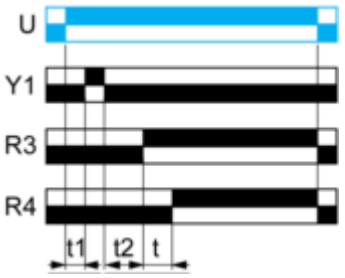
T = 50, 60... ms

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



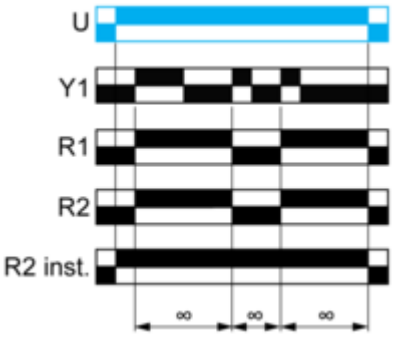
T = t1 + t2 +...
t = 50, 60 ... ms

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

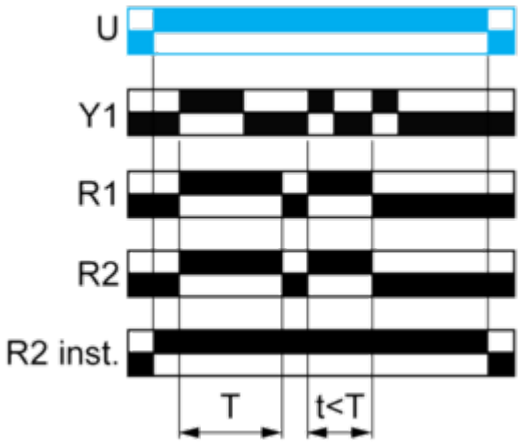


Function Tt : Retriggerable Bistable Relay with Control Signal On

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

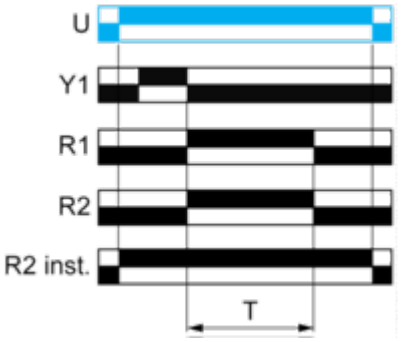


Function W: Interval Relay with Control Signal Off

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