Productinformatieblad

Specificaties

NFC modular timing relay, 8 A, 2 CO, 0.1 s…999 h, multifunction, 24...240 V AC/DC

RENF22R2MMW

EAN Code: 3606480936203

Prijs: 104,85 EUR

Hoofd

range of product	Harmony-timerrelais
product or component type	NFC-timerrelais
device short name	RENF22
App voor product	Ecostruxure Industrial Device (downloadable from Google Play store or Apple Store)

Complementair

digitaal uitgangstype	Relais
nominale uitgangsstroom	8 A
type en samenstelling contact	2 C/O tijdcontact, cadmiumvrij 1 C/O vertraagd en ogenblikkelijk contact, cadmiumvrij
type tijdsvertraging	Vertraging bij inschakeling Vertraging bij in- en uitschakelen Pulsvertraging Asymmetrische inschakelvertraging en uitschakelvertraging Print gegevens Vertraging bij uitschakeling Symmetrisch knipperend Safe-guard Star-delta Asymmetrisch knipperend Tastbaar
tijdvertraging bereik	0.05 s...999 H
compatibiliteit product	Mobiel apparaat met NFC
control type	Zonder testknop
Us nominale voedingsspanning	24...240 V AC/DC
ingangsspanning	<= 2.4 V
spanningsbereik	0,85...1,1 Un
Maximaal overgedragen RF-vermogen	0,0002 mW
NFC-bedrijfsfrequentie	13,56 MHz
voedingsfrequentie	50...60 Hz +/- 5 %
aansluitingen - aansluitklemmen	Schroefklemmen, 1 x 0,5...1 x 3,3 mm² (AWG 20...AWG 12) vast zonder kabeluiteinde Schroefklemmen, 2 x 0,5...2 x 2,5 mm² (AWG 20...AWG 14) vast zonder kabeluiteinde Schroefklemmen, 1 x 0,2...1 x 2,5 mm² (AWG 24...AWG 14) flexibel met kabeluiteinde Schroefklemmen, 2 x 0,2...2 x 1,5 mm² (AWG 24...AWG 16) flexibel met kabeluiteinde
aandraaimoment	0,6…1 N.m conform aan IEC 60947-1 0,6…1,0 N.m conform aan IEC 60947-1

De weergegeven prijs is de adviesprijs in euro excl. BTW. Deze kan onderhevig zijn aan korting. Neem contact op met uw lokale distributeur of detailhandel voor de daadwerkelijke prijs

materiaal behuizing	Zelf dovend
herhalingsnauwkeurigheid	+/- 0.2 % voor 10 s...999 h bereik tijdvertraging +/-0.5% voor 100 ms...10 s bereik tijdvertraging +/-0,7 % voor 50...100 ms bereik tijdvertraging
temperatuurafwijking	+/- 0,05 %/°C
spanningsverloop	+/- 0,2 %/V
instelling nauwkeurigheid tijdsvertraging	+/-1% voor 1...999 h bereik tijdvertraging bij 25 °C +/-2% voor 1...3600 sec bereik tijdvertraging bij 25 °C +/- 20 ms voor 100 ms...10 s bereik tijdvertraging bij 25 °C +/- 30 ms voor 50...100 ms bereik tijdvertraging bij 25 °C
Time delay type	Vertraging bij inschakeling - A- Vertragingsrelais bij inschakeling Vertraging bij in- en uitschakelen - Ac - Vertragingsinschakeling en uitschakelrelais m/ controlesignaal Pulsvertraging - Ad- pulsvertraagd relais m/ controlesignaal Pulsvertraging - Ah- pulsvertraagd relais (één cyclus) m/ controlesignaal Vertraging bij in- en uitschakelen - Ak-Asymmetrische on-delay en off-delay relais m/ controlesignaal Vertraging bij inschakeling - Bij- Vertragingsrelais bij inschakeling vermogen m/ pauze/optelling (Y1) Print gegevens - B- Eén intervalrelais met controlesignaal Print gegevens - Bw- Dubbel intervalrelais m/ besturingssignaal Vertraging bij uitschakeling - C- Uit-vertragingsrelais m/ controlesignaal Symmetrisch knipperend - D- Symmetrisch knipperend relais (start pulse-off) Symmetrisch knipperend - Di- Symmetrisch knipperend relais (start puls-on) Symmetrisch knipperend - Dt- Symmetrisch knipperend relais (startpuls-off) m/ pauze/optelling (Y1) Symmetrisch knipperend - Dit- Symmetrisch knipperend relais (startpuls-on) m/ pauze/optelling (Y1) Print gegevens - H- Intervalrelais Print gegevens - Ht- Intervalrelais m/ pauze/optelling (Y1) Asymmetrisch knipperend - Li- Asymmetrisch knipperend relais (startpuls-on) Asymmetrisch knipperend - Lt-asymmetrisch vertraagd relais (startpuls-uit) m/ pauze/optelling (Y1) Asymmetrisch knipperend - Lit- Asymmetrisch knipperend relais (startpuls-on) m/ pauze/optelling (Y1) Safe-guard - N- Veilig beveiligingsrelais Safe-guard - O- vertraagd veiligheidsrelais Pulsvertraging - P- Pulsvertraagd relais met vaste pulslengte Pulsvertraging - Pt- Pulsvertraagd relais met vaste pulslengte en pauze/optelling Star-delta - Qt- Star-delta relais (2 CO uitgangen m/ split common) Star-delta - Qtt-Star-delta relais (2 CO-uitgangen m/ split common) m/ pauze/optelling (Y1) Tastbaar - TI - Bistable relais met controlesignaal aan Tastbaar - Tt-Heractiveerbaar belastbaar relais met controlesignaal aan Print gegevens - W- Intervalrelais met controlesignaal uit Asymmetrisch knipperend - L- Asymmetrisch knipperend relais (start pulse-off)
impulsduur	100 ms met belasting in parallel 60 ms onbelast
isolatieweerstand	100 MOhm bij 500 V DC conform aan IEC 60664-1
Hersteltijd	120 ms bij ontkrachtiging
maximaal energieverbruik in VA	3 VA bij 240 V AC
maximaal energieverbruik in W	1,5 W bij 240 V DC 0,6 W bij 24 V DC
schakelcapaciteit in VA	2000 VA
minimale schakelstroom	10 mA bij 5 V
maximale schakelstroom	8 A
maximale schakelspanning	250 V
elektrische duurzaamheid	100000 cycles voor resistief laden, 8 A bij 250 V, AC
mechanical durability	10000000 cycles
Uimp toegekende schokgolfspanning	5 kV 1,2/50 µs conform aan IEC 60664-1
responsvertraging	100 ms

kruipweg	4 kV/3 conform aan IEC 60664-1
overvoltage category	III conforming to IEC 60664-1
betrouwbaarheidsgegevens veiligheid	MTTFd = 227.5 jaar 100 % bedrijfscyclus continue werkingstoestand bij 30°C
montagepositie	Eender welke positie
montagesteun	35mm DIN rail conform aan IEC 60715
status LED	Un, groen LED: (Vast) voor stroom AAN R1, amber LED: (Vast) voor relais bekrachtigd R2, amber LED: (Vast) voor relais bekrachtigd Koppeling, groen LED: (Vast) voor communicatiestatus Un, groen LED: (snel knipperend) voor diagnosemodus R1, amber LED: (Flitsend) voor timing in progress R2, amber LED: (Flitsend) voor timing in progress
Maximale communicatieafstand	10 mm
functie beschikbaar	A- Vertragingsrelais bij inschakeling-2 C/O Ac - Vertragingsinschakeling en uitschakelrelais m/ controlesignaal-2 C/O Ad- pulsvertraagd relais m/ controlesignaal-2 C/O Ah- pulsvertraagd relais (één cyclus) m/ controlesignaal-2 C/O Ak-Asymmetrische on-delay en off-delay relais m/ controlesignaal-2 C/O Bij- Vertragingsrelais bij inschakeling vermogen m/ pauze/optelling (Y1)-2 C/O B- Eén intervalrelais met controlesignaal-2 C/O Bw- Dubbel intervalrelais m/ besturingssignaal-2 C/O C- Uit-vertragingsrelais m/ controlesignaal-2 C/O D- Symmetrisch knipperend relais (start pulse-off)-2 C/O Di- Symmetrisch knipperend relais (start puls-on)-2 C/O Dt- Symmetrisch knipperend relais (startpuls-off) m/ pauze/optelling (Y1)-2 C/O Dit- Symmetrisch knipperend relais (startpuls-on) m/ pauze/optelling (Y1)-2 C/O H- Intervalrelais-2 C/O Ht- Intervalrelais m/ pauze/optelling (Y1)-2 C/O Li- Asymmetrisch knipperend relais (startpuls-on)-2 C/O Lt-asymmetrisch vertraagd relais (startpuls-uit) m/ pauze/optelling (Y1)-2 C/O Lit- Asymmetrisch knipperend relais (startpuls-on) m/ pauze/optelling (Y1)-2 C/O N- Veilig beveiligingsrelais-2 C/O O- vertraagd veiligheidsrelais-2 C/O P- Pulsvertraagd relais met vaste pulslengte-2 C/O Pt- Pulsvertraagd relais met vaste pulslengte en pauze/optelling-2 C/O Qt- Star-delta relais (2 CO uitgangen m/ split common)-2 C/O Qtt-Star-delta relais (2 CO-uitgangen m/ split common) m/ pauze/optelling (Y1)-2 C/O TI - Bistable relais met controlesignaal aan-2 C/O Tt-Heractiveerbaar belastbaar relais met controlesignaal aan-2 C/O W- Intervalrelais met controlesignaal uit-2 C/O L- Asymmetrisch knipperend relais (start pulse-off)-2 C/O
besturingssysteem	Androidversion >= V7.0 IOSversion >= V14.5
width	22,5 mm
net weight	0,0904 kg
Aantal functies	28

Omgeving

immuniteit voor micro-onderbrekingen	10 ms
doorslagvastheid	2,5 kV voor 1 mA/1 minuut bij 50 Hz met tussen relaisuitgang en voeding met basisisolatie met basisisolatie
standards	IEC 61000-6-1 IEC 61000-6-2 IEC 61000-6-4 NL 61812-1 IEC 61000-6-3
richtlijnen	2014/35/EU - laagspanningsrichtlijn 2014/53/EU - RF-richtlijn 2014/30/EU - elektromagnetische compatibiliteit

product certifications	CE CSA KC UL CCC EAC DNV-GL
ambient air temperature for operation	-20…60 °C
ambient air temperature for storage	-40…70 °C
IP beschermingsgraad	Behuizing: IP40 conform aan IEC 60529 Voorkant: IP40 conform aan IEC 60529 Aansluitklemmen: IP20 conform aan IEC 60529
pollution degree	3 conform aan IEC 60664-1
trilling bestendigheid	20 m/s² (f= 10…150 Hz) conforming to IEC 60068-2-6
schokbestendigheid	15 gn niet in werking voor 11 ms conform aan IEC 60068-2-27 5 gn in bedrijf voor 11 ms conform aan IEC 60068-2-27
relatieve vochtigheid	95 % bij 25…55 °C
elektromagnetische compatibiliteit	Elektrostatische ontlading immuniteitstest - test level: 6 kV niveau 3 (contactontlading) conforming to IEC 61000-4-2 Elektrostatische ontlading immuniteitstest - test level: 8 kV niveau 3 (luchtontlading) conforming to IEC 61000-4-2 Fast transients immunity test - test level: 1 kV niveau 3 (capacitieve verbindingsclip) conforming to IEC 61000-4-4 Fast transients immunity test - test level: 2 kV niveau 3 (direct contact) conforming to IEC 61000-4-4 Immuniteitstest overspanning - test level: 1 kV niveau 3 (differentieelmodus) conforming to IEC 61000-4-5 Immuniteitstest overspanning - test level: 2 kV niveau 3 (gewone modus) conforming to IEC 61000-4-5 Radiofrequent elektromagnetisch veld immuniteitstest - test level: 10 V niveau 3 (0,15...80 MHz) conforming to IEC 61000-4-6 Elektromagnetisch veld immuniteitstest - test level: 10 V/m niveau 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Bestand tegen micro-onderbrekingen en spanningsverlies - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Bestand tegen micro-onderbrekingen en spanningsverlies - test level: 100 % (20 ms) conforming to IEC 61000-4-11 Uitgestraalde eliminatie klasse B conforming to EN 55022 Uitgevoerde overbrenging klasse A conforming to EN 55022 Elektromagnetisch veld immuniteitstest - test level: 3 V/m niveau 2 (1.4 GHz...2 GHz) conforming to IEC 61000-4-3 Elektromagnetisch veld immuniteitstest - test level: 1 V/m niveau 1 (2...2,7 GHz) conforming to IEC 61000-4-3

Verpakkingseenheid

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

Life Is On | Schneider Electric

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

Environmental Data

Schneider Electric wil tegen 2050 de Net Zero-status hebben bereikt via partnerschappen in de toeleveringsketen, materialen met een lagere impact en circulariteit via onze doorlopende campagne "Use Better, Use Longer, Use Again" om de levensduur van producten en de recycleerbaarheid te verlengen.

Uitleg van Environmental Data ⟩

Hoe evalueren we de duurzaamheid van producten? ⟩

Milieuvoetafdruk

Totale levenscyclus ecologische voetafdruk	**64**

Use Better

Materialen en verpakking

Pakket met gerecycleerd karton	**Ja**
Verpakkingen zonder kunststof	**Ja**
EU-richtlijn RoHS	**Voldoet pro-aktief (Product valt niet onder de EU RoHS juridische scoop)**
SCIP-nummer	**7bdc2711-0ad2-427c-8ece-532c5e9f09d7**
REACh-regelgeving	**REACh-verklaring**

Use Again

Herverpakken en herfabriceren

Terugname	**No**

Life Is On | Schneider Electric

Dimensions Drawings

Dimensions
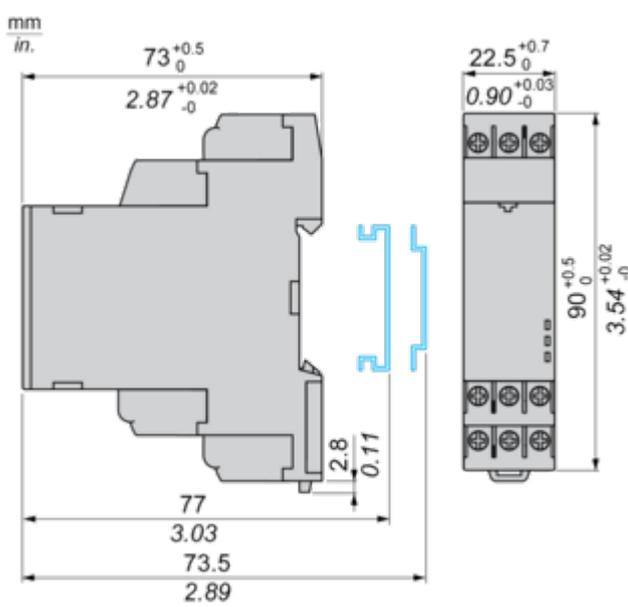
Connections and Schema

Internal Wiring Diagram

A1	15	25/21
	A1● ●Y1 15● 25/21●	
	R1 R2	
	A2●	
	16 18 26/22 28/24	
18	16	A2
28/24	26/22	Y1
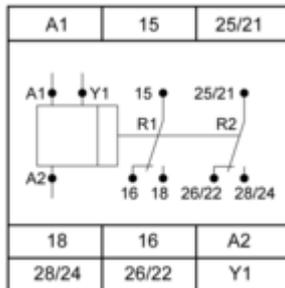
Wiring Diagram
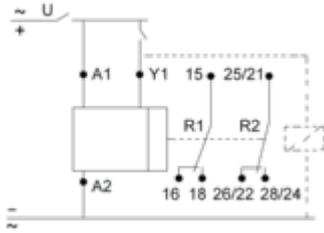
Technical Description

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

Life Is On | Schneider Electric
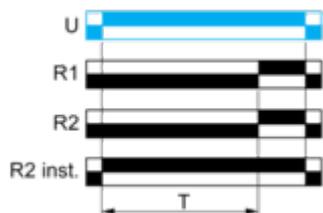
Function At: Power On-Delay Relay with Pause / Summation Control Signal

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").
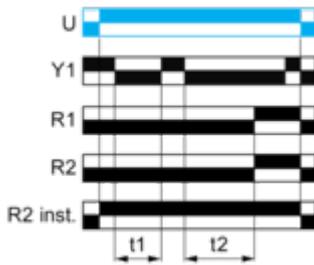
Function: 2 Output

T = t1 + t2 +…

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

Description

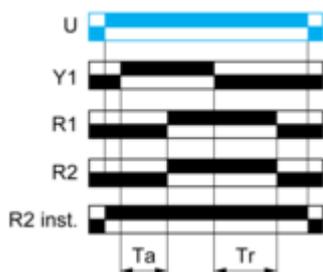After energisation of power supply and energization of Y1 causes the timing period T to start.
At the end of this timing period, the output(s) R close(s).
When deenergization of Y1, the timing T starts.
At the end of this timing period T,the output(s) R revert(s) to its/their initial position.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").
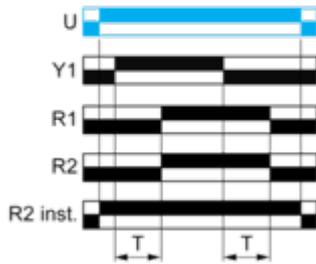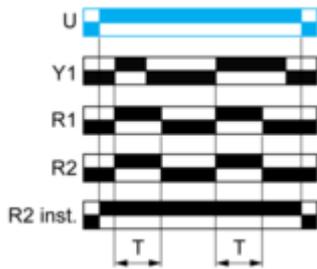
Function: 2 Output

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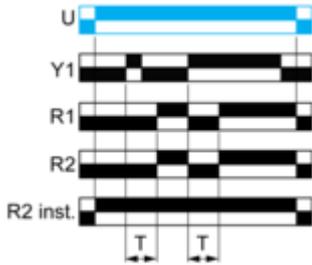
**Function Ah : Pulse Delayed Relay (Single Cycle) with Control Signal**

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

Life Is On | Schneider Electric   **29 jul 2025**
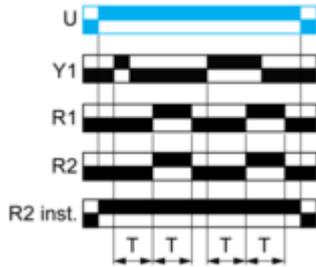
Function Ak: Asymmetrical On-Delay and Off-Delay Relay With Control Signal

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").
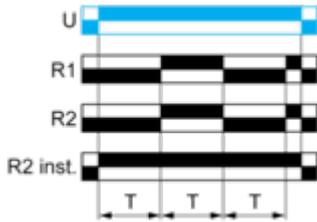
Function: 2 Output

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").
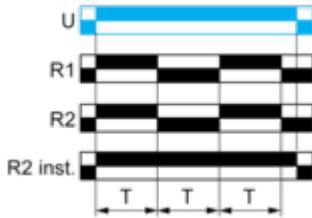
Function: 2 Output

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").
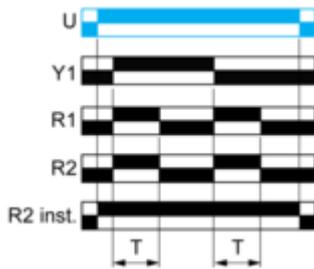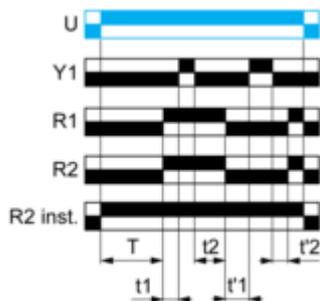
Function: 2 Output

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").
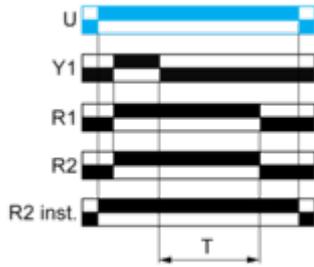
Function: 2 Output

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").
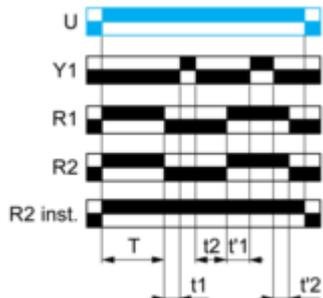
Function: 2 Output

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

Life Is On | Schneider Electric

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").
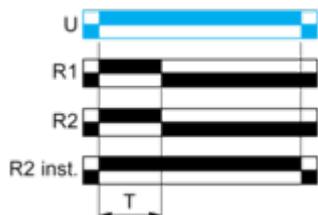
Function: 2 Output

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").
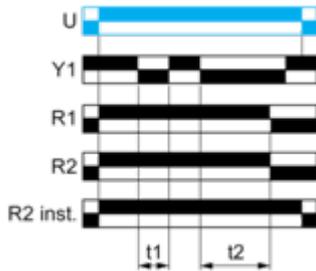
Function: 2 Output

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
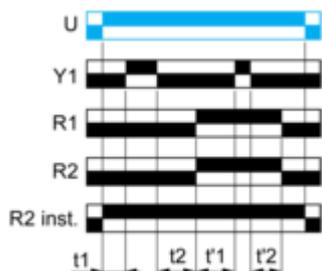
On energisation of power supply, output(s) R starts at its/their initial state for timing duration Tr then change(s) to output(s) R close(s) for the another timing duration Ta.
This cycle is repeated indefinitely until power supply removal.
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").
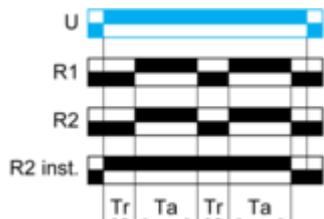
Function: 2 Output

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").
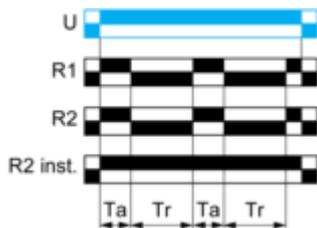
Function: 2 Output

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
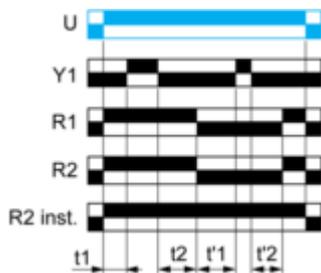
Description

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").
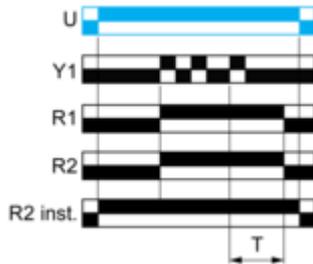
Function: 2 Output

Function O : Delayed Safe-Guard Relay

Description

On energisation of power supply, the timing T starts.
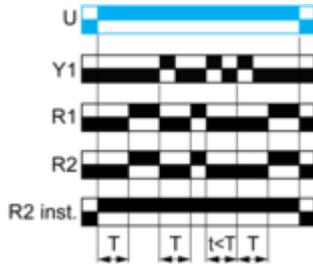At the end of this timing period, the output(s) R close(s).
On energization of Y1, the output(s) R revert(s) to its/their initial state and the timing T restarts.
If the duration interval between 2 consecutive energization of Y1 is greater than the pre-set value T, the output(s) R close(s) at the end 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

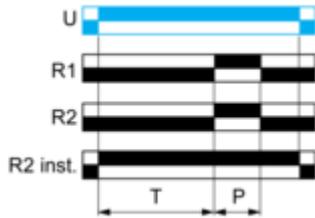## Function P : Pulse Delayed Relay with Fixed Pulse Length

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").
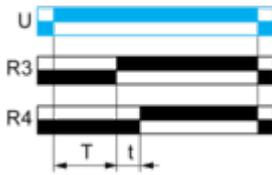
Function: 2 Output

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").
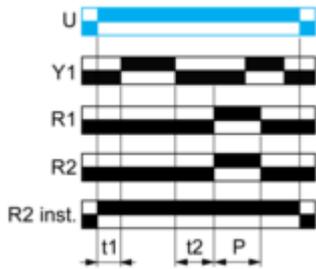
Function: 2 Output

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.
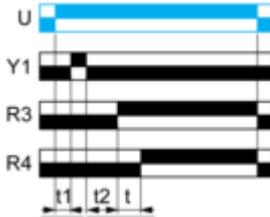
Function: 2 Output

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

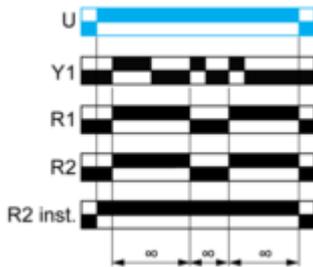## Function TL : Bistable Relay with Control Signal On

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").
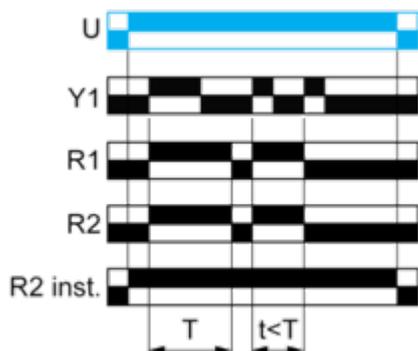
Function: 2 Output

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").
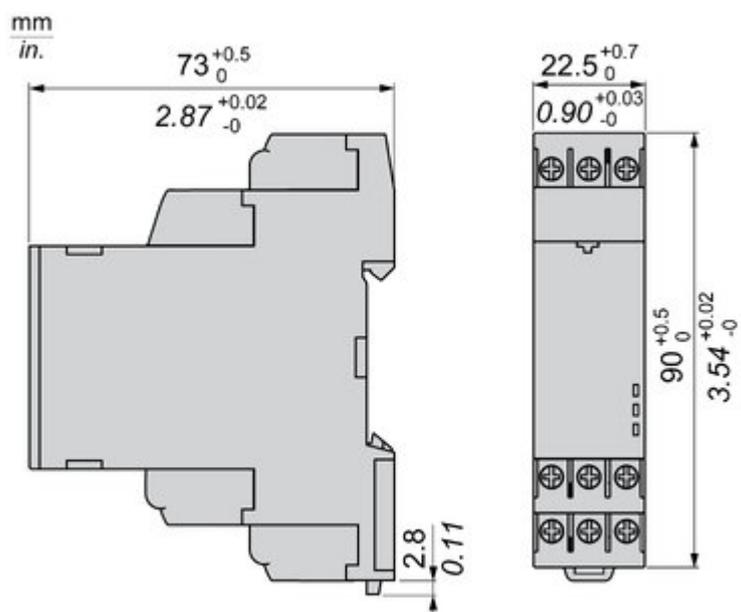
Function: 2 Output
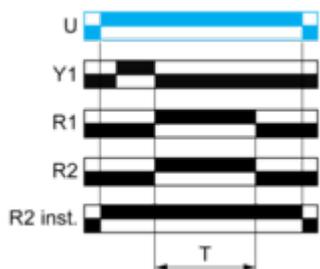
Legend

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

Technical Illustration

Dimensions

$\dfrac{mm}{in.}$

$73^{+0.5}_{0}$

$2.87^{+0.02}_{-0}$

2.8
0.11

$22.5^{+0.7}_{0}$

$0.90^{+0.03}_{-0}$

$90^{+0.5}_{0}$

$3.54^{+0.02}_{-0}$

Offer Marketing Illustration

Product benefits / Features

Offer Marketing Illustration

Product benefits / Features

Technical benefits
NFC Control & Timer Relays

Technology uses a mobile app that is compatible with Android and iOS operating systems

Pair with relays even without power. Front LEDs give clear indication when pairing Android and iOS

2 outputs, individually configurable

2No physical dial, configure digitally

7 control and monitoring functions

28 timing functions

Offer Marketing Illustration

Product benefits / Features

Technical Benefits
Harmony Timer Relay

choice of screw
ig connection
als for wiring.

A Dial-Pointe
indicator that er
ease of operation
environments such
or low-light cor

duct reference
ng 28 timing
ns, 2 outputs,
vide range of
oly voltage
10 V AC/DC.

id unintended
i intervention
ded thanks
: IP50 lead-
ble settings
ction cover.

Different mc
style to mee
preferen
DIN rail mou
product w
17.5 mm/0.
22.5 mm/0
Plug in mot
with soc

Offer Marketing Illustration

Product benefits / Features

Image of product / Alternate images

Alternative

Image of product in real life situation