

Fiche produit

Caractéristiques

RENF22R2MMW

Zelio Time RE22 - relais temporisé - 2OF - paramétrable NFC - 24V à 240VACDC



Statut commercial: Commercialisé



Principales

Gamme de produits	Zelio Time
Fonction produit	Relais de temporisation modulaire
Nom abrégé de l'appareil	RENF22
Système d'exploitation	Android
Version logicielle	V4.4 et versions supérieures
Désignation du logiciel	Zelio NFC (téléchargeable à partir de la boutique-Google Play)

Complémentaires

Type de sortie TOR	Relais
Courant de sortie nominal	8 A
Description des contacts	2 "OF" contact temporisé, sans cadmium 1 F/O contact minuté et instantané, sans cadmium
Type de temporisation	Dit H Bw L C D O Li Pt Dt P Ht Tt B Di Ad Qtt Ak C.A. At Lit W N A Qt Ah Ti Lt
Domaine de réglage de la temporisation	0.1...3596400 s
Accessoires associés	Dispositif mobile équipé de la technologie NFC
[Us] tension d'alimentation	24...240 V AC/DC
Tension d'entrée	<= 2.4 V
Plage d'utilisation en tension	0,85 à 1,1 Un
Puissance nominale	0.0002 mW
Fréquence de fonctionnement maximale	13.56 MHz
Fréquence d'alimentation	50...60 Hz +/- 5 %

Mode de raccordement	Bornes à vis 1 x 0,5 à 1 x 3,3 mm ² AWG 20 à AWG 12 rigide câble sans embout Bornes à vis 2 x 0,5 à 2 x 2,5 mm ² AWG 20 à AWG 14 rigide câble sans embout Bornes à vis 1 x 0,2 à 1 x 2,5 mm ² AWG 24...AWG 14 souple câble avec embout Bornes à vis 2 x 0,2 à 2 x 1,5 mm ² AWG 24 à AWG 16 souple câble avec embout
Couple de serrage	5,3 à 8,8 lbf.in se conformer à IEC 60947-1 0,6...1 N.m se conformer à IEC 60947-1
Matière du boîtier	Auto-extinguible
Précision de répétition	10...3596400 s +/- 0,2 % 0,1...10 s +/- 0,5 %
Dérive en température	+/- 0,05 %/°C
Dérive en tension	+/- 0,2 %/V
Réglage exact du temps de retard	1...999 h +/- 1 % de valeur de consigne à 25 °C 1 H +/- 2 % of set value à 25 °C 0,1...10 s +/- 20 ms of set value at 25 °C
Durée minimale de l'impulsion	60 ms sans charge 100 ms avec charge en parallèle
Résistance d'isolement	100 MΩ à 500 V CC se conformer à IEC 60664-1
Temps de reset	120 ms sur désexcitation
Puissance consommée en VA	3 VA à 240 V AC
Puissance consommée en W	0,6 W at 24 V 1,5 W at 240 V
Capacité de commutation en VA	2000 VA
Courant commuté minimum	10 mA à 5 V
Courant commuté maximum	8 A
Tension de coupure maximale	250 V
Durée de vie électrique	100000 cycle à 8 A, 250 V AC sur résistif charge
Durée de vie mécanique	10000000 cycle
[Uimp] tension assignée de tenue aux chocs	5 kV pour 1,2/50 µs se conformer à IEC 60664-1
Retard réponse	< 100 ms
Distance de fuite	4 kV/3 se conformer à IEC 60664-1
Catégorie de surtension	III se conformer à IEC 60664-1
Données de fiabilité	MTTFd = 227,5 ans pour condition d'exploitation continue 100 % cycle de service à 30 °C
Position de montage	Toutes positions
Support de montage	Rail DIN 35 mm se conformer à EN/IEC 60715
Signalisation locale	Un, vert LED: (fixe) pour puissance ON R1, jaune LED: (fixe) pour relais alimenté R1, jaune LED: (clignotant) pour chronométrage en cours R2, jaune LED: (fixe) pour relais alimenté R2, jaune LED: (clignotant) pour chronométrage en cours Pairing, vert LED: (fixe) pour état de communication Un, vert LED: (clignotement rapide) pour mode diagnostic
Distance de fonctionnement	10 mm
Temps de réponse	2 s
Largeur	22,5 mm
Poids	0,0904 kg

Environnement

Immunité aux micro-coupures	<= 10 ms
Tenue diélectrique	2,5 kV pour 1 mA/1 minute à 50 Hz entre sortie de relais et alimentation avec isolation de base
Normes	EN 61000-6-1 EN 61812-1 EN 61000-6-4 EN 61000-6-3 EN 61000-6-2
Directives	2014/35/EU - directive basse tension 2014/53/EU - directive équipements radioélectriques 2014/30/EU - compatibilité électromagnétique
Certifications du produit	CE CSA KC UL
Température de fonctionnement	-20...60 °C

Température ambiante pour le stockage	-40...70 °C
Degré de protection IP	IP20 sur bornes se conformer à IEC 60529 IP40 sur enveloppe se conformer à IEC 60529 IP40 sur face avant se conformer à IEC 60529
Degré de pollution	3 se conformer à IEC 60664-1
Tenue aux vibrations	20 m/s ² à 10...150 Hz se conformer à IEC 60068-2-6
Tenue aux chocs mécaniques	15 gn (non fonctionnant) pendant 11 ms se conformer à IEC 60068-2-27 5 gn (en marche) pendant 11 ms se conformer à IEC 60068-2-27
Humidité relative	95 % à 25...55 °C
Compatibilité électromagnétique	Test d'immunité aux décharges électrostatiques (niveau de test: 6 kV, niveau 3 - décharge par contact) se conformer à EN/IEC 61000-4-2 Test d'immunité aux décharges électrostatiques (niveau de test: 8 kV, niveau 3 - décharge dans l'air) se conformer à EN/IEC 61000-4-2 Test d'immunité des transitoires rapides (niveau de test: 1 kV, niveau 3 - clip de connexion capacitive) se conformer à IEC 61000-4-4 Test d'immunité des transitoires rapides (niveau de test: 2 kV, niveau 3 - contact-direct) se conformer à IEC 61000-4-4 Test d'immunité aux surtensions (niveau de test: 1 kV, niveau 3 - mode différentiel) se conformer à IEC 61000-4-5 Test d'immunité aux surtensions (niveau de test: 2 kV, niveau 3 - mode commun) se conformer à IEC 61000-4-5 Test d'immunité aux champs électromagnétiques radio-fréquences rayonnés (niveau de test: 10 V, niveau 3 - 0,15 à 80 MHz) se conformer à IEC 61000-4-6 Test d'immunité de champ électromagnétique (niveau de test: 10 V/m, niveau 3 - 80 MHz...1 GHz) se conformer à IEC 61000-4-3 Immunité aux micro-coupures et baisses de tension (niveau de test: 30 % - 500 ms) se conformer à IEC 61000-4-11 Immunité aux micro-coupures et baisses de tension (niveau de test: 100 % - 20 ms) se conformer à IEC 61000-4-11 Émission rayonnée, classe B se conformer à EN 55022 Émission transmise par conduction, classe A se conformer à EN 55022 Test d'immunité de champ électromagnétique (niveau de test: 3 V/m, niveau 2 - 1.4 GHz...2 GHz) se conformer à IEC 61000-4-3 Test d'immunité de champ électromagnétique (niveau de test: 1 V/m, niveau 1 - 2...2.7 GHz) se conformer à IEC 61000-4-3

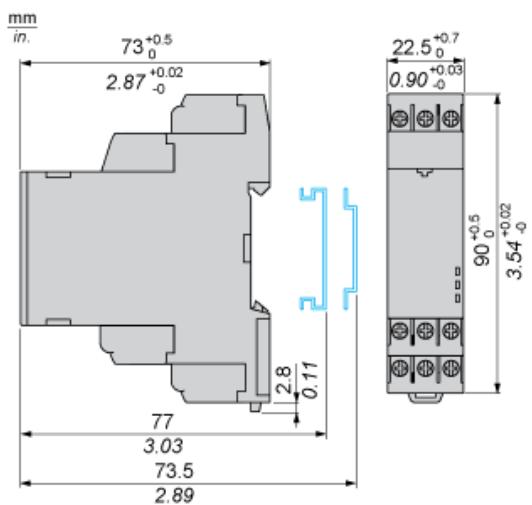
Durabilité de l'offre

Statut environnemental	Produit Green Premium
RoHS (code date: AnnéeSemaine)	Conforme - depuis 1551 - Déclaration de conformité Schneider Electric  Déclaration de conformité Schneider Electric
REACH	Référence ne contenant pas de SVHC au-delà du seuil
Profil environnemental du produit	Disponible
Instructions de fin de vie du produit	Disponible

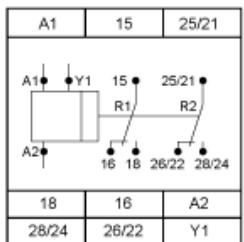
Garantie contractuelle

Période	18 mois
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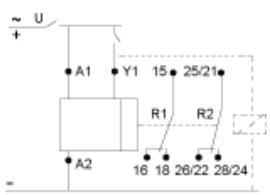
Dimensions



Internal Wiring Diagram



Wiring Diagram

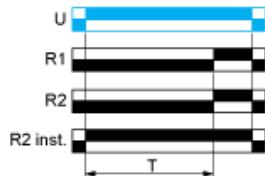


Function A: Power On-Delay Relay

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

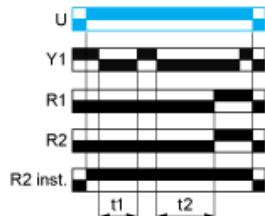


Function At: Power On-Delay Relay with Pause / Summation Control Signal

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



$$T = t_1 + t_2 + \dots$$

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.

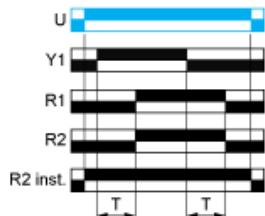
At the end of this timing period, the output(s) R close(s).

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

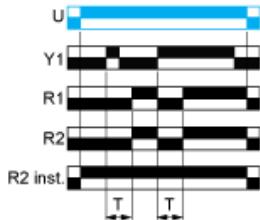
After energisation of power supply, pulsing or maintaining of energization of Y1 starts the timing T.

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

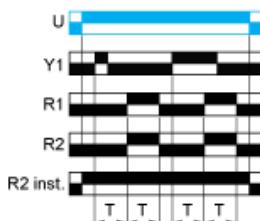
After energisation of power supply, pulsing or maintaining of energization of Y1 starts the timing T.

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.

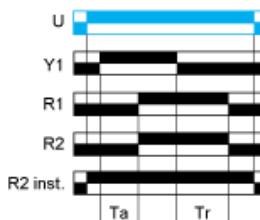
At the end of this timing period Ta, the output(s) R closes.

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

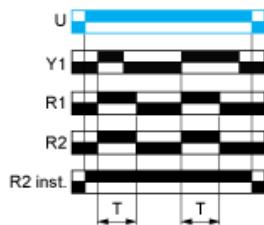
Description

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



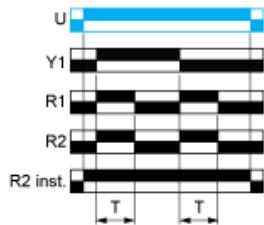
Function Bw : Double Interval Relay with Control Signal

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

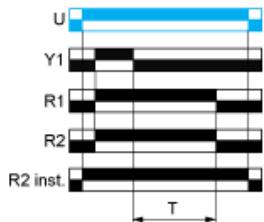


Function C: Off-Delay Relay with Control Signal

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

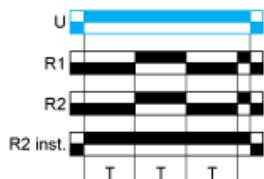


Function D: Symmetrical Flashing Relay (Starting Pulse-Off)

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

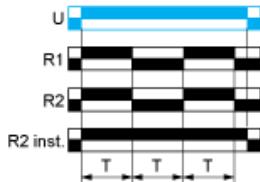


Function Di: Symmetrical Flashing Relay (Starting Pulse-On)

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 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

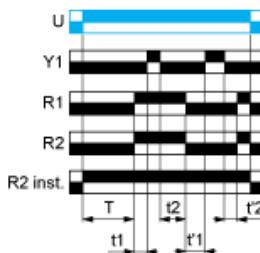


Function Dt: Symmetrical Flashing Relay (Starting Pulse-Off) With Pause / Summation Control Signal

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 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



$$T = t_1 + t_2 + \dots$$

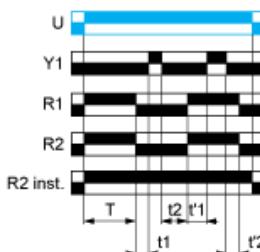
$$T = t'_1 + t'_2 + \dots$$

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



$$T = t_1 + t_2 + \dots$$

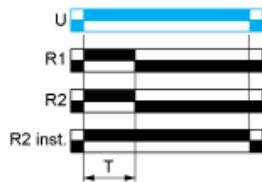
$$T = t'_1 + t'_2 + \dots$$

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

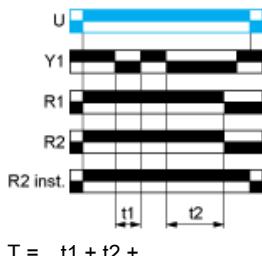


Function Ht: Interval Relay With Pause / Summation Control Signal

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



$$T = t_1 + t_2 + \dots$$

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

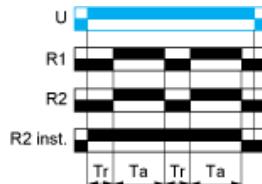
Description

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)

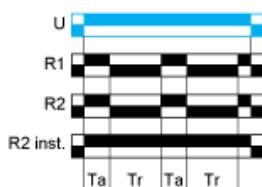
Description

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

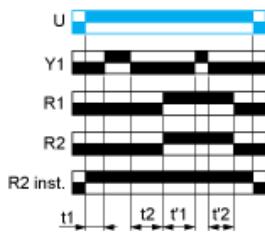
On energisation of power supply, output(s) R starts at its/their initial state for timing duration Tr and the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Tr, then changes to output(s) R close(s).

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



$$Tr = t_1 + t_2 + \dots$$

$$Ta = t'_1 + t'_2 + \dots$$

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

Description

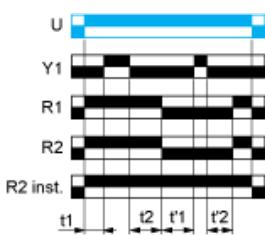
On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration Ta and the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Ta, the output(s) R revert(s) to its/their initial state.

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



$$Ta = t_1 + t_2 + \dots$$

$$Tr = t'_1 + t'_2 + \dots$$

Function N : Safe-Guard Relay

Description

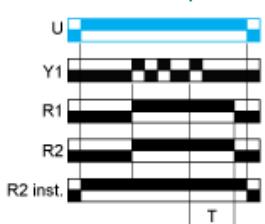
After energisation of power supply and on energization of Y1 cause the output(s) R close(s) and starts the timing T.

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).

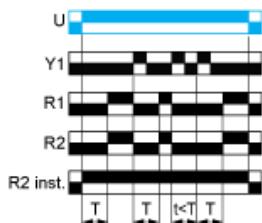
On energization of Y1, the output(s) R revert(s) to its/their initial state and the timing T restarts.

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

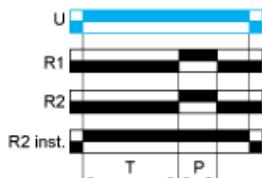
Description

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

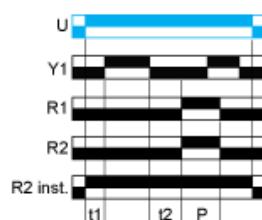
On energisation of power supply, the timing T starts.

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.

Function: 2 Output



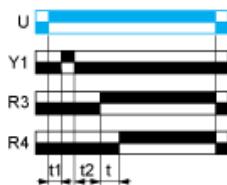
T = 50, 60... ms

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.

Function: 2 Output



T = t1 + t2 +...

t = 50, 60 ... ms

Function TL : Bistable Relay with Control Signal On

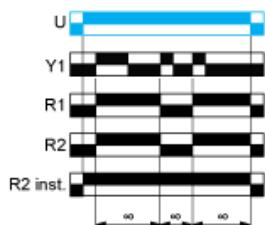
Description

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

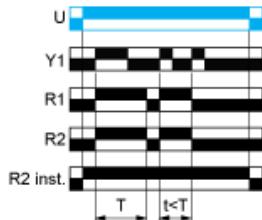
After energisation of power supply and on energization of Y1 cause the output(s) R close(s) and starts the timing T.

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

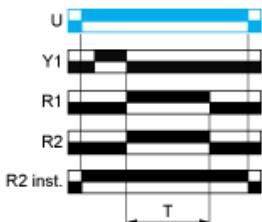


Function W: Interval Relay with Control Signal Off

Description

After energisation of power supply and on energization of Y1 following by deenergization 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

- [Light Blue Box] Relay de-energised
 - [Blue Box] Relay energised
 - [White Box] Output open
 - [Black Box] 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