

RENF22R2MMW

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



Principales

Gamme de produits	Zelio Time
Type de produit ou équipement	Relais de temporisation modulaire
Nom de l'appareil	RENF22
Supported OS	Android
Version logicielle	V4.4 et versions supérieures
App for product	Zelio NFC (téléchargeable à partir de la boutique Google Play)

Complémentaires

Type de sortie numérique	Relais
Courant de sortie nominal	8 A
Description des contacts	2 "O/F" contact temporisé, sans cadmium 1 F/O contact minuté et instantané, sans cadmium
Type de temporisation	Tt Ak Ah Di Pt H At Dt Ad A Qt N Li L Qtt O Ht Lit C Lt W TI P C.A. Dit B D Bw
Plage de temporisation	0,1 s...999 H
Accessoires associés	Dispositif mobile équipé de la technologie NFC
[Us] tension d'alimentation	24...240 V CA/CC
Release input voltage	<= 2,4 V
Plage d'utilisation en tension	0,85 à 1,1 Un
Maximum RF power transmitted	0,0002 mW
NFC operating frequency	13.56 MHz
Fréquence d'alimentation	50...60 Hz +/- 5 %

Le présent document comprend des descriptions générales et/ou des caractéristiques techniques générales sur la performance des produits auxquels il se réfère. Le présent document ne peut être utilisé pour déterminer l'aptitude ou la fiabilité de ces produits pour des applications utilisateur spécifiques et n'est pas destiné à se substituer à cette détermination. Il appartient à chaque utilisateur ou intégrateur de réaliser, sous sa propre responsabilité, l'analyse de risques complète et appropriée, d'évaluer et tester les produits dans le contexte de leur application ou utilisation spécifique. Ni la société Schneider Electric Industries SAS, ni aucune de ses filiales ou sociétés associées dans lesquelles elle détient une participation, ne peut être tenue pour responsable de la mauvaise utilisation de l'information contenue dans le présent document.

Mode de raccordement	Bornes à vis, 1 x 0,5 à 1 x 3,3 mm ² (AWG 20 à AWG 12) rigide sans embout Bornes à vis, 2 x 0,5 à 2 x 2,5 mm ² (AWG 20 à AWG 14) rigide sans embout Bornes à vis, 1 x 0,2 à 1 x 2,5 mm ² (AWG 24...AWG 14) souple avec embout Bornes à vis, 2 x 0,2 à 2 x 1,5 mm ² (AWG 24 à AWG 16) souple avec embout
Couple de serrage	0,6...1 N.M se conformer à IEC 60947-1 0,60...0,99 N.m se conformer à IEC 60947-1
Matière du boîtier	Auto-extinguible
Précision de répétition	+/-0,2 % pour 10 s...999 h plage de relais temporisé +/-0,5% pour 100 ms...10 s plage de relais temporisé
Dérive en température	+/- 0,05 %/°C
Dérive en tension	+/- 0,2 %/V
Réglage exact du temps de retard	+/- 1 % pour 1...999 h plage de relais temporisé à 25 °C +/- 2 % pour 1 H plage de relais temporisé à 25 °C +/- 20 ms pour 100 ms...10 s plage de relais temporisé à 25 °C
Control signal pulse width	100 Ms avec charge en parallèle 60 ms sans charge
Résistance d'isolement	100 MΩ à 500 V CC se conformer à IEC 60664-1
Recovery time	120 ms sur désexcitation
Puissance consommée en VA	3 VA à 240 V CA
Puissance consommée en W	1,5 W à 240 V CC 0,6 W à 24 V CC
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 pour résistive charge, 8 A à 250 V, AC
Endurance mécanique	10000000 cycle
Rated impulse withstand voltage	5 kV 1,2/50 μs se conformer à IEC 60664-1
Power on delay	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 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
Status LED	Un, vert LED: (fixe) pour puissance ON R1, jaune LED: (fixe) pour relais alimenté R2, jaune LED: (fixe) pour relais alimenté Pairing, vert LED: (fixe) pour état de communication Un, vert LED: (clignotement rapide) pour mode diagnostic R1, jaune LED: (clignotant) pour chronométrage en cours R2, jaune LED: (clignotant) pour chronométrage en cours
Maximum communication distance	10 mm
Temps de réponse	2 s
Largeur	22,5 mm
Poids du produit	0,0904 kg

Environnement

Immunité aux micro-coupures	10 ms
Tenue diélectrique	2,5 KV pour 1 mA/1 minute à 50 Hz avec between relay output and power supply with basic insulation Avec isolement de base
Normes	EN 61000-6-1 EN 61000-6-2 EN 61000-6-4 EN 61812-1 EN 61000-6-3
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 CCC EAC DNV-GL
Température ambiante de fonctionnement	-20...60 °C
Température ambiante de stockage	-40...70 °C
Degré de protection IP	IP40 enveloppe: se conformer à CEI 60529 IP40 face avant: se conformer à CEI 60529 IP20 bornes: se conformer à CEI 60529
Degré de pollution	3 se conformer à IEC 60664-1
Tenue aux vibrations	20 m/s ² (f= 10...150 Hz) se conformer à CEI 60068-2-6
Tenue aux chocs mécaniques	15 gn non fonctionnant pour 11 ms se conformer à CEI 60068-2-27 5 gn en marche pour 11 ms se conformer à CEI 60068-2-27
Humidité relative	95 % à 25...55 °C
Compatibilité électromagnétique	Test d'immunité aux décharges électrostatiques - niveau de test: 6 kV (décharge par contact)niveau 3 se conformer à EN/IEC 61000-4-2 Test d'immunité aux décharges électrostatiques - niveau de test: 8 kV (décharge dans l'air)niveau 3 se conformer à EN/IEC 61000-4-2 Test d'immunité des transitoires rapides - niveau de test: 1 kV (clip de connexion capacitive)niveau 3 se conformer à CEI 61000-4-4 Test d'immunité des transitoires rapides - niveau de test: 2 kV (contact direct)niveau 3 se conformer à CEI 61000-4-4 Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5 Test d'immunité aux champs électromagnétiques radio-fréquences rayonnés - niveau de test: 10 V (0,15 à 80 MHz)niveau 3 se conformer à CEI 61000-4-6 Test d'immunité de champ électromagnétique - niveau de test: 10 V/m (80 MHz... 1 GHz)niveau 3 se conformer à CEI 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 (1.4 GHz... 2 GHz)niveau 2 se conformer à CEI 61000-4-3 Test d'immunité de champ électromagnétique - niveau de test: 1 V/m (2...2.7 GHz)niveau 1 se conformer à CEI 61000-4-3

Emballage

Poids de l'emballage (Kg)	89,930 g
Hauteur de l'emballage 1	24,000 mm
Largeur de l'emballage 1	80,500 mm
Longueur de l'emballage 1	94,500 mm

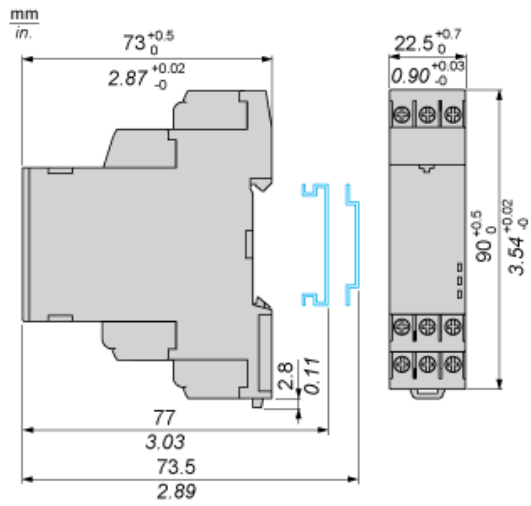
Durabilité de l'offre

Statut environnemental de l'offre	Produit Green Premium
Régulation REACH	Déclaration REACH
Directive RoHS UE	Conformité pro-active (Produit en dehors du scope légal RoHS UE) Déclaration RoHS UE
Sans mercure	Oui
Information sur les exemptions RoHS	Oui
Régulation RoHS Chine	Déclaration RoHS Pour La Chine
Profil environnemental	Profil Environnemental Du Produit
Profil de circularité	Informations De Fin De Vie

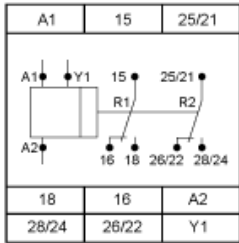
Garantie contractuelle

Garantie	18 mois
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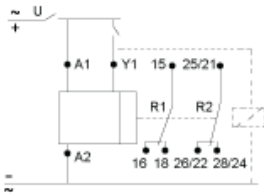
Dimensions



Internal Wiring Diagram



Wiring Diagram

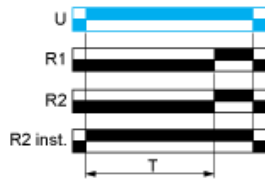


Function A: Power On-Delay Relay

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

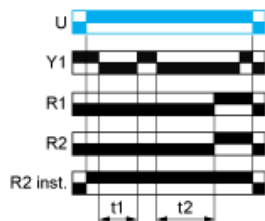


Function At: Power On-Delay Relay with Pause / Summation Control Signal

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



$$T = t1 + t2 + \dots$$

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.

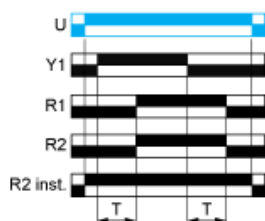
At the end of this timing period, the output(s) R close(s).

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

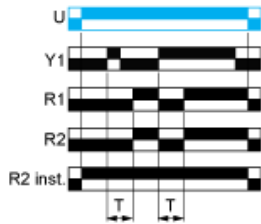


Function Ad : Pulse Delayed Relay with Control Signal

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

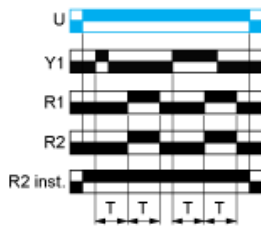


Function Ah : Pulse Delayed Relay (Single Cycle) with Control Signal

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

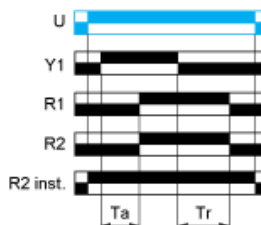


Function Ak: Asymmetrical On-Delay and Off-Delay Relay With Control Signal

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

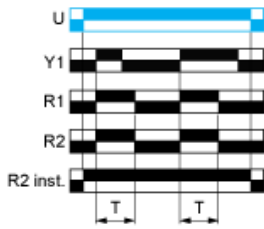


Function B: Single Interval Relay with Control Signal

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



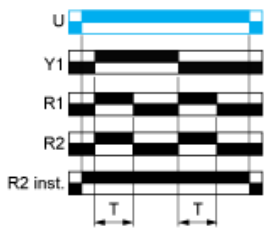
Function Bw : Double Interval Relay with Control Signal

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

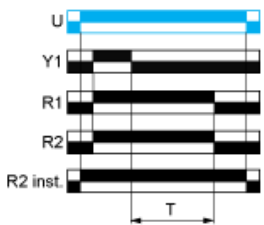


Function C: Off-Delay Relay with Control Signal

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

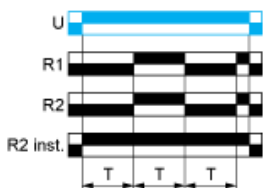


Function D: Symmetrical Flashing Relay (Starting Pulse-Off)

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

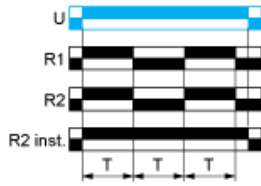


Function Di: Symmetrical Flashing Relay (Starting Pulse-On)

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

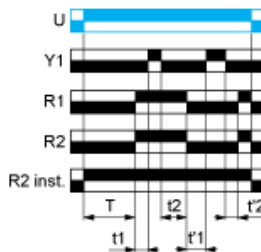


Function Dt: Symmetrical Flashing Relay (Starting Pulse-Off) With Pause / Summation Control Signal

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



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

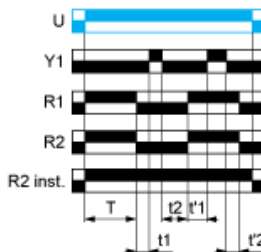
$$T = t'_1 + t'_2 + \dots$$

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



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

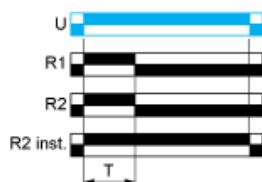
$$T = t'_1 + t'_2 + \dots$$

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

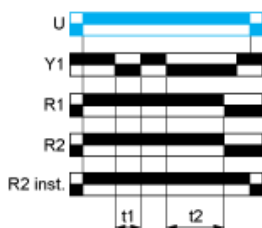


Function Ht: Interval Relay With Pause / Summation Control Signal

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



$$T = t1 + t2 + \dots$$

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

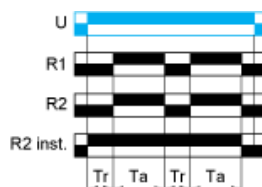
Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T_r then change(s) to output(s) R close(s) for the another timing duration T_a .

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)

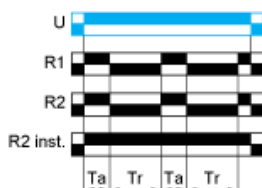
Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T_a then change(s) to its/their initial state for timing duration T_r .

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

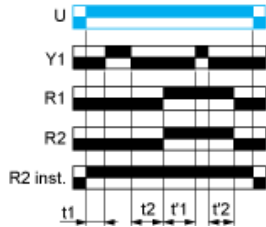
On energisation of power supply, output(s) R starts at its/their initial state for timing duration T_r and the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T_r , then changes to output(s) R close(s).

The output(s) R close state will remain for the same timing duration T_a 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_a , 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



$$T_r = t_1 + t_2 + \dots$$

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

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

Description

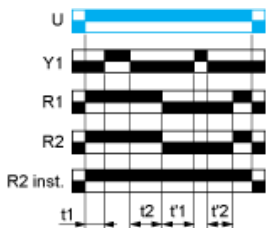
On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T_a and the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T_a , the output(s) R revert(s) to its/their initial state.

The output(s) R at initial state will remain for timing duration T_r the timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T_r , 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



$$T_a = t_1 + t_2 + \dots$$

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

Function N : Safe-Guard Relay

Description

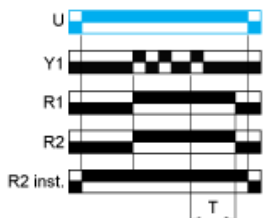
After energisation of power supply and on energization of Y1 cause the output(s) R close(s) and starts the timing T.

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).

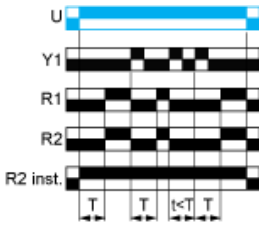
On energization of Y1, the output(s) R revert(s) to its/their initial state and the timing T restarts.

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

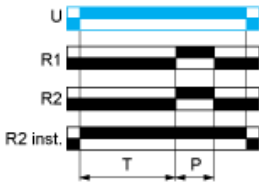
Description

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

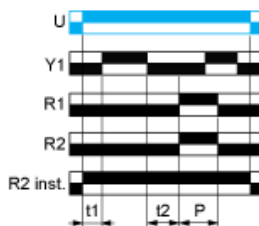
On energisation of power supply, the timing T starts.

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



$T = t_1 + t_2 + \dots$

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



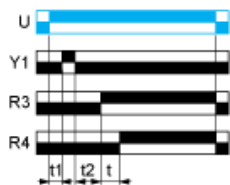
T = 50, 60... ms

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

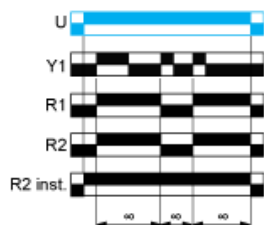
Description

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

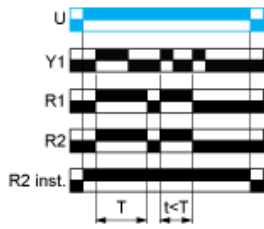
After energisation of power supply and on energization of Y1 cause the output(s) R close(s) and starts the timing T.

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

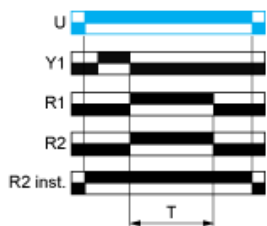


Function W: Interval Relay with Control Signal Off

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/ 2 timed outputs

R2

-

Ta Adjustable On-delay

-

Tr Adjustable Off-delay

-

Y1 Retrigger / Restart control

-

R2 The second output is instantaneous if the right position is selected

inst.

-

T - Timing period

R4 Delta contact output

-

t - Delay to switch ON Delta contact output

R3 Star-Delta contact output

-