

Principales

Gamme de produit	Zelio Time
Type de produit ou équipement	Relais de temporisation modulaire
Type de sortie logique	Relais
Nom de composant	RE11R
Type de temporisation	Di D B Bw C Ac At Ht H A
Plage de temporisation	6...60 min 1...10 H 1...10 s 1...10 min 0,1...1 s 10...100 H 6...60 s
[Us] tension d'alimentation	24...240 V CA à 50/60 Hz 24 V CC
Courant de sortie nominal	8 A

Complémentaires

Matière des contacts	AgNi (sans cadmium)
Dimension du pas en largeur	17,5 mm
Type de commande	Sélecteur face avant
Plage d'utilisation en tension	0,85 à 1,1 Us
Mode de raccordement	Bornes à vis, 2 x 1,5 mm ² sans embout Bornes à vis, 2 x 2,5 mm ² + 1 x 4 mm ² avec embout
Matière du boîtier	Auto-extinguible
Précision de répétition	+/- 0,5% se conformer à CEI 61812-1
Dérive en température	+/- 0,05 %/°C
Dérive en tension	+/- 0,2 %/V
Réglage exact du temps de retard	+/- 10 % pleine échelle à 25 °C se conformer à CEI 61812-1
Durée minimale de l'impulsion	100 Ms avec charge en parallèle 30 ms
Temps de réinitialisation maximum	100 ms sur désexcitation
Facteur de marche	100 %
Consommation d'énergie maximale	32 VA à 240 V
Consommation d'énergie maximale	0,6 W à 24 V 1,5 W à 240 V
Courant commuté minimum	10 mA
Courant commuté maximum	8 A
Tension de coupure maximale	250 V
Pouvoir de coupure	2000 VA
Pouvoir de coupure	80 W
Durée de vie électrique	100000 cycle à 8 A, 250 V pour résistive charge
Endurance mécanique	5000000 cycle

[Uimp] tension assignée de tenue aux chocs	5 KV pour 1,2...50 µs se conformer à CEI 60664-1 5 kV pour 1,2...50 µs se conformer à CEI 61812-1
Marquage	CE
Distance de fuite	4 kV/3 se conformer à CEI 60664-1
Tenue aux ondes de choc	1 KV mode différentiel se conformer à CEI 61000-4-5 niveau 3 2 kV mode commun se conformer à CEI 61000-4-5 niveau 3
Support de montage	Profilé symétrique 35mm se conformer à EN 50022
Signalisation locale	Pourclignotant&Nbsp;: temporisation en cours voyant DEL (vert) Pourstabilisé&Nbsp;: relais alimenté, aucune temporisation en cours voyant DEL (vert) Pourimpulsion : relais alim., aucune temporisation en cours (sauf pour fonct. Di-D) voyant DEL (vert)
Poids du produit	0,06 kg

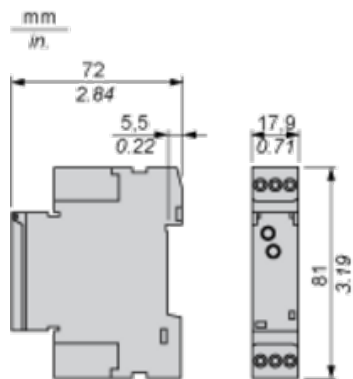
Environnement

Immunité aux micro-coupures	10 ms
Tenue diélectrique	2,5 kV pour 1 mA/1 minute à 50 Hz se conformer à CEI 61812-1
Normes	CEI 61812-1 73/23/EEC 89/336/EEC 93/68/EEC CEI 60669-2-3 EN 50081-1/2 EN 50082-1/2
Certifications du produit	GL[RETURN]CSA[RETURN]cULus
Température ambiante de stockage	-30...60 °C
Température ambiante de fonctionnement	-20...60 °C
Degré de protection IP	IP20 se conformer à CEI 60529 (bornier) IP40 se conformer à CEI 60529 (enveloppe) IP50 se conformer à CEI 60529 (face avant)
Tenue aux vibrations	0,35 mm (f= 10...55 Hz) se conformer à CEI 60068-2-6
Humidité relative	93 % sans condensation se conformer à CEI 60068-2-3
Tenue aux décharges électrostatiques	6 KV en contact se conformer à CEI 61000-4-2 niveau 3 8 kV dans l'air se conformer à CEI 61000-4-2 niveau 3
Tenue aux champs électromagnétiques rayonnés	10 V/M 80 MHz à 1 GHz se conformer à ENV 50140/204 niveau 3 10 V/m 80 MHz à 1 GHz se conformer à CEI 61000-4-3 niveau 3
Tenue aux transitoires rapides	1 KV se conformer à CEI 61000-4-4 niveau 3 (clip de connexion capacitive) 2 kV se conformer à CEI 61000-4-4 niveau 3 (directe)
Tenue aux champs radioélectriques	10 V (0,15 à 80 MHz) se conformer à ENV 50141 (IEC 61000-4-6)
Immunité aux creux de tension	30 % / 10 ms se conformer à CEI 61000-4-11 60 % / 100 ms se conformer à CEI 61000-4-11 95 % / 5 s se conformer à CEI 61000-4-11
Perturbation radiée/conduite	Classe B se conformer à EN 55022 (EN 55011 group 1)

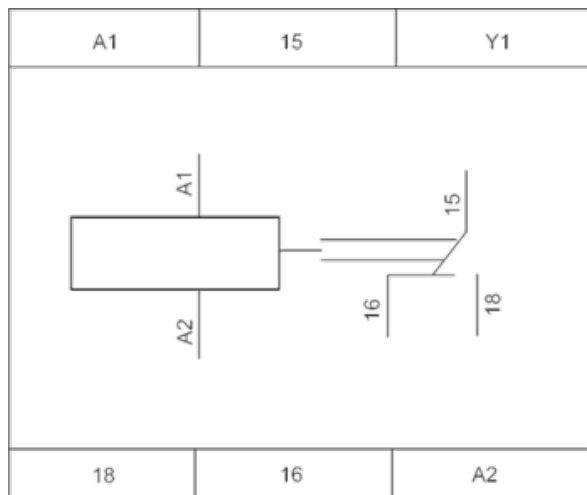
Garantie contractuelle

Garantie	18 months
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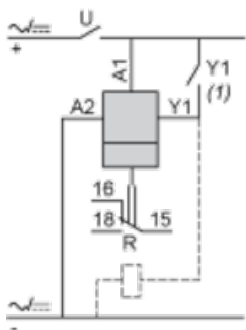
Width 17.5 mm



Internal Wiring Diagram



Wiring Diagram



1) Contact Y1:

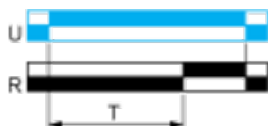
- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

Function A : Power on Delay Relay

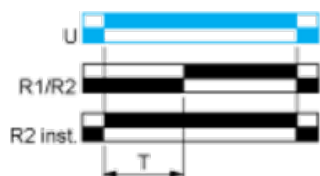
Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

Description

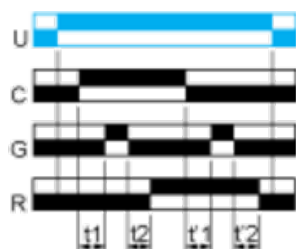
After power-up, closing of the control contact C causes the timing period T to start (timing can be interrupted by operating the Gate control contact G). At the end of this timing period, the relay closes.

When control contact C re-opens, the timing T starts.

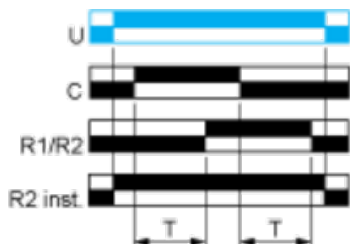
At the end of this timing period T, the output reverts to its initial position (timing can be interrupted by operating the Gate control contact G).

The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



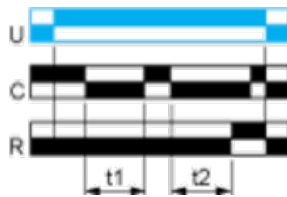
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function At : Power on Delay Relay (Summation) with Control Signal

Description

After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.

Function: 1 Output



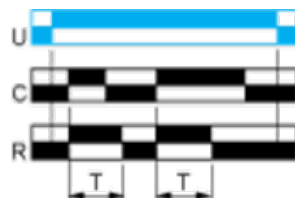
$$T = t1 + t2 + \dots$$

Function B : Interval Relay with Control Signal

Description

After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.

Function: 1 Output



Function Bw : Double Interval Relay with Control Signal

Description

On closing and opening of control contact C, the output R closes for the duration of the timing period T.

Function: 1 Output

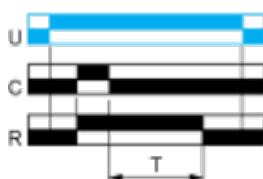


Function C : Off-Delay Relay with Control Signal

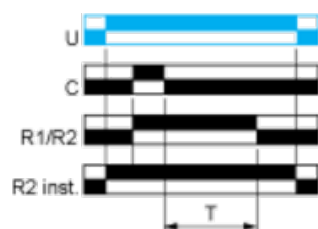
Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

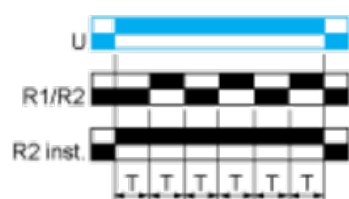
Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Di : Symmetrical Flasher Relay (Starting Pulse On)

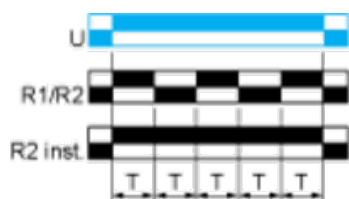
Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function H : Interval Relay

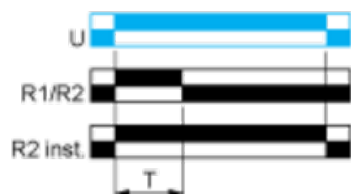
Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ht : Interval Relay (Summation) with Control Signal

Description

On energisation, the output R closes for the duration of a timing period T then reverts to its initial state.

Pulsing or maintaining control contact C will again close the output R.

Timing T is only active when control contact C is released and so the output R will not revert to its initial state until after a time $t_1 + t_2 + \dots$

The relay memorises the total, cumulative opening time of control contact C and, once the set time T is reached, the output R reverts to its initial state.

Function: 1 Output



$T = t_1 + t_2 + \dots$

Legend

Relay de-energised

Relay energised

Output open

Output closed

C	Control contact
G	Gate
R	Relay or solid state output
R1/R2	2 timed outputs
R2 inst.	The second output is instantaneous if the right position is selected
T	Timing period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply