

Fișă tehnică produs

Specificatii



Releu de Timp, 0.05S...300H, 24... 240V Ac/Dc, 1C/O

RE22R1MYMR

Principale

gama de produse	Harmony Timer Relays
tip de iesire discreta	Releu
Tip produs sau componenta	Releu de sincronizare modular
nume scurt al dispozitivului	RE23
curent nominal de iesire	8 A

Suplimentare

tip si compozitie contacte	1 C/O contact temporizat, fara cadmiu
tip intarziere	Power on-delay Temporizare la revenire On-delay and off-delay Symmetrical flashing Interval
intervalul de intarziere	30...300 s 10...100 s 3...30 s 30...300 min 3...30 min 0.3...3 s 0.05...1 s 30...300 h 1...10 s 3...30 h
tip de control	Maner sferic rotativ Buton diagnostic Potentiometru extern
[Us] tensiune nominala de alimentare	24...240 V c.a./c.c. 50/60 Hz
Release input voltage	≤ 2.4 V
interval de tensiune	0,85...1,1 Us
frecventa de alimentare	50...60 Hz +/- 5 %
conexiuni - borne	Borne cu surub, 2 x 0.5 - 1 x 3.3 mm ² (AWG 20 - AWG 12) solid fara terminale de cablu Borne cu surub, 3 x 0.5 - 2 x 2.5 mm ² (AWG 20...AWG 14) solid fara terminale de cablu Borne cu surub, 1 x 0.2 - 1 x 2.5 mm ² (AWG 24 - AWG 14) flexibil cu pini Borne cu surub, 2 x 0.2 - 2 x 1.5 mm ² (AWG 24 - AWG 16) flexibil cu pini
cuplu de strangere	0,6...1 N.m conformitate cu IEC 60947-1
material carcasa	Policarbonat
precizie de repetare	+/- 0,5 % conformitate cu IEC 61812-1
Abatere temperatura	+/- 0,05 %/°C
abatere a tensiunii	+/- 0,2 %/V

setarea preciziei temporizarii	+/- 10 % din capatul scarii la 25 °C conformitate cu IEC 61812-1
Time delay type	<p>Power on-delay - A- Power on-delay relay</p> <p>On-delay and off-delay - Ac- On-delay and off-delay relay w/ control signal</p> <p>Power on-delay - At- Power on-delay relay w/ pause/summation (X1)</p> <p>Power on-delay - Aw- Power on-delay relay w/ retrigger/restart</p> <p>On-delay and off-delay - Act- On-delay and off-delay relay w/ control signal and pause/summation</p> <p>Temporizare la revenire - C- Off-delay relay w/ control signal</p> <p>Temporizare la revenire - Ct- Off-delay relay w/ control signal and pause/summation</p> <p>Symmetrical flashing - D- Symmetrical flashing relay (starting pulse-off)</p> <p>Symmetrical flashing - Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/summation (X1)</p> <p>Symmetrical flashing - Dw- Symmetrical flashing relay (starting pulse-off) w/ retrigger/restart</p> <p>Symmetrical flashing - Di- Symmetrical flashing relay (starting pulse-on)</p> <p>Symmetrical flashing - Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/summation (X1)</p> <p>Symmetrical flashing - Diw- Symmetrical flashing relay (starting pulse-on) w/ retrigger/restart</p> <p>Interval - H- Interval relay</p> <p>Interval - Ht- Interval relay w/ pause/summation (X1)</p> <p>Interval - Hw- Interval relay w/ retrigger/restart</p> <p>Interval - W- Interval relay w/ control signal off</p> <p>Interval - Wt- Interval relay w/ control signal off and pause/summation</p>
Control signal pulse width	100 ms cu sarcina în paralel 30 ms
rezistenta de izolatie	100 MΩ la 500 V c.c. conformitate cu SR EN 60664-1
Recovery time	120 ms la întreruperea alimentarii
imunitate la microintreruperi	10 ms
puterea consumata in VA	3 VA la 240 V c.a.
puterea consumata in W	1,5 W la 240 V c.c.
capacitatea de comutare in VA	2000 VA
curentul minim de comutare	10 mA la 5 V c.c.
curent maxim comutat	8 A
tensiunea maxima de comutatie	250 V c.a.
durabilitate electrica	100000 cic, 8 A la 250 V, AC-1 100000 cic, 2 A la 24 V, DC-1
durabilitate mecanica	10000000 cic
Rated impulse withstand voltage	5 kV pentru 1,2...50 μs conformitate cu SR EN 60664-1
Power on delay	100 ms
distanța de conturare	4 kV/3 conformitate cu SR EN 60664-1
categorie de supratensiune	III conforming to SR EN 60664-1
fiabilitate securitate date	MTTFd = 205.4 ani B10d = 190000
pozitia de montaj	Orice poziție
suport de montare	Sina DIN 35 mm conformitate cu IEC 60715
stare LED	Verde lumina fond LED (stabil) pentru selectati indicatia Galben LED (stabil) pentru Releu dse iesire alimentat Galben LED (intermitent rapid) pentru sincronizare in curs si releu iesire dezactivat Galben LED (intermitent incet) pentru sincronizare in curs si releu iesire alimentat

functie disponibila	A- Power on-delay relay-1 C/O Ac- On-delay and off-delay relay w/ control signal-1 C/O At- Power on-delay relay w/ pause/summation (X1)-1 C/O Aw- Power on-delay relay w/ retrigger/restart-1 C/O Act- On-delay and off-delay relay w/ control signal and pause/summation-1 C/O C- Off-delay relay w/ control signal-1 C/O Ct- Off-delay relay w/ control signal and pause/summation-1 C/O D- Symmetrical flashing relay (starting pulse-off)-1 C/O Dt- Symmetrical flashing relay (starting pulse-off) w/ pause/summation (X1)-1 C/O Dw- Symmetrical flashing relay (starting pulse-off) w/ retrigger/restart-1 C/O Di- Symmetrical flashing relay (starting pulse-on)-1 C/O Dit- Symmetrical flashing relay (starting pulse-on) w/ pause/summation (X1)-1 C/O Diw- Symmetrical flashing relay (starting pulse-on) w/ retrigger/restart-1 C/O H- Interval relay-1 C/O Ht- Interval relay w/ pause/summation (X1)-1 C/O Hw- Interval relay w/ retrigger/restart-1 C/O W- Interval relay w/ control signal off-1 C/O Wt- Interval relay w/ control signal off and pause/summation-1 C/O
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latime	22,5 mm
greutate produs	0,1 kg
tip de control	With test button
Number of functions	18

Mediu

rigiditate dielectrica	2,5 kV pentru 1 mA/1 minut la 50 Hz intre iesirea releului si sursa de alimentare cu Izolatie de baza conformitate cu IEC 61812-1
standarde	IEC 61812-1 UL 60947-1
directive	2004/108/EC - compatibilitate electromagnetica 2006/95/EC - directiva de joasa tensiune
certificari produs	RCM GL EAC UE CSA CCC UL
temperatura ambientala de functionare	-20...60 °C
temperatura ambietala pentru depozitare	-40...70 °C
grad de protectie IP	IP40 carcasa: conformitate cu SR EN 60529 IP50 parte frontala: conformitate cu SR EN 60529 IP20 borne: conformitate cu SR EN 60529
grad de poluare	3 conformitate cu SR EN 60664-1
rezistenta la vibratii	20 m/s² (f= 10...150 Hz) conforming to IEC 60068-2-6
rezistenta la socuri	15 gn nu functioneaza pentru 11 ms conformitate cu IEC 60068-2-27 5 gn in functionare pentru 11 ms conformitate cu IEC 60068-2-27
umiditate relativa	95 % la 25...55 °C

compatibilitate electromagnetica	<p>Test de imunitate la tranzienti rapizi - nivel de testare:1 kV nivel 3 (brida de conectare capacitiva) conforming to IEC 61000-4-4</p> <p>Test de imunitate la supratensiuni - nivel de testare:1 kV nivel 3 (mod diferential) conforming to IEC 61000-4-5</p> <p>Test de imunitate la supratensiuni - nivel de testare:2 kV nivel 3 (mod comun) conforming to IEC 61000-4-5</p> <p>Descărcare electrostatică - nivel de testare:6 kV nivel 3 (descarcare pe contact) conforming to IEC 61000-4-2</p> <p>Descărcare electrostatică - nivel de testare:9 kV nivel 3 (descarcare în aer) conforming to IEC 61000-4-2</p> <p>Test de imunitate la frecventa radio radiata - nivel de testare:10 V/m nivel 3 (80 MHz - 1 GHz) conforming to IEC 61000-4-3</p> <p>Perturbații conduse de RF - nivel de testare:10 V nivel 3 (0.15 - 80 MHz) conforming to IEC 61000-4-6</p> <p>Repetări rapide tranzitorii - nivel de testare:2 kV nivel 3 (contact direct) conforming to IEC 61000-4-4</p> <p>Imunitate la microîntreruperi si caderi ale tensiunii - nivel de testare:30 % (500 ms) conforming to IEC 61000-4-11</p> <p>Imunitate la microîntreruperi si caderi ale tensiunii - nivel de testare:100 % (21 ms) conforming to IEC 61000-4-11</p>
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Unitati de ambalare

Unitate de masura pentru prima forma de impachetare	PCE
Număr de produse în pachet	1
Inaltime prima forma de impachetare	2,900 cm
Latime prima forma de impachetare	8,600 cm
Lungime prima forma de impachetare	10,000 cm
Greutate colet(Lbs)	101,000 g
Unitate de masura pentru a doua forma de impachetare	S02
Numar unitati in a doua forma de impachetare	40
Inaltime a doua forma de impachetare	15,000 cm
Latime a doua forma de impachetare	30,000 cm
Lungime a doua forma de impachetare	40,000 cm
Greutate a doua forma de impachetare	4,500 kg

Garanție contractuală

Garantie (in luni)	18
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Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

[Environmental Data explicate >](#)

[Cum evaluam sustenabilitatea produselor >](#)

Amprenta de mediu

Amprenta de carbon totala pe durata de viata	53 kg CO2 eq.
Amprenta de carbon a fazei de fabricație [A1–A3]	2 kg CO2 eq.
Amprenta de carbon a fazei de distribuție [A4]	0 kg CO2 eq.
Amprenta de carbon a fazei de instalare [A5]	0 kg CO2 eq.
Amprenta de carbon a fazei de utilizare [B2, B3, B4, B6]	52 kg CO2 eq.
Amprenta de carbon a fazei de sfârșit de viață [C1–C4]	0.1 kg CO2 eq.
Raport de mediu	Profilul ambiental al produsului

Use Better

Materiale si ambalare

Pachet cu carton reciclabil	Da
Ambalaj fara plastic	Da
Numar SCIP	7bdc2711-0ad2-427c-8ece-532c5e9f09d7
Directiva RoHS a UE	Conform Prin Scutire
Regulamentul REACH	Referința conține SVHC peste prag

Use Longer

Prelungire durata de viata

Reparare	Nu
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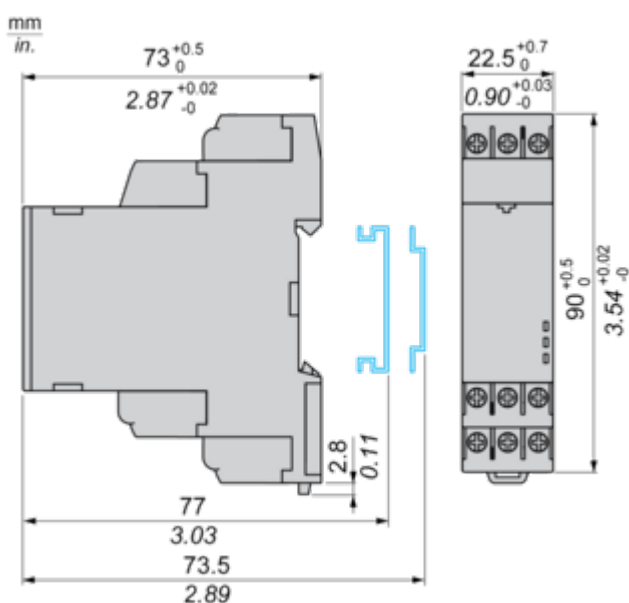
Use Again

Reambalare si refabricare

Profil circularitate	Informatii privind sfarsitul duratei de viata
Preluare la sfarsitul duratei de viata	Da

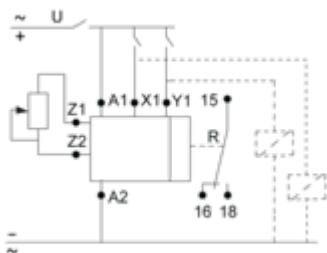
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram



Technical Description

Function A: Power On-Delay

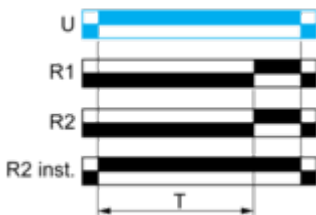
Description

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: 1 Output



Function: 2 Outputs



Function Ac: On-Delay & Off-Delay 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.

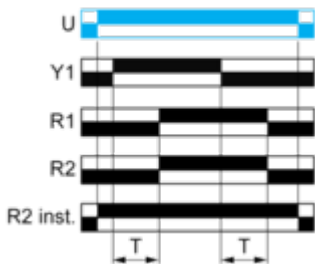
At the end of this timing period T, the output(s) R revert(s) to its/their initial position.

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

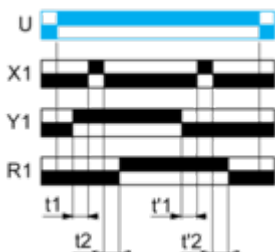


Function Act: On-Delay & Off-Delay with Control Signal & With Pause / Summation Control

Description

After energisation of power supply and energization of Y1 causes the timing period T to start and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R close(s). When deenergization of Y1, the timing T starts and the timing can be interrupted / paused each time X1 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 position. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

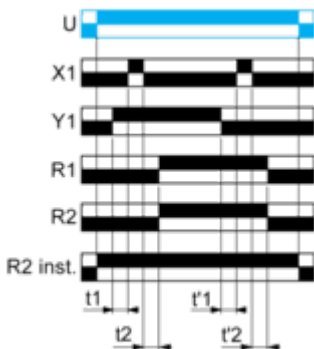
Function: 1 Output



$T = t1 + t2 + \dots$

$T = t'1 + t'2 + \dots$

Function: 2 Outputs



$T = t1 + t2 + \dots$

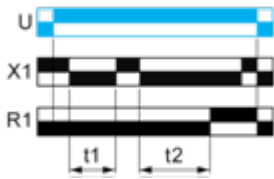
$T = t'1 + t'2 + \dots$

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

Description

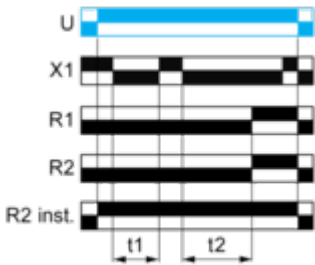
On energisation of power supply, the timing period T starts. Timing can be interrupted / paused each time X1 energizes. Except for RE17*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, timing can be interrupted / paused each time Y1 energizes. When the cumulative total of time periods elapsed reaches the 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: 1 Output with Pause / Summation Control



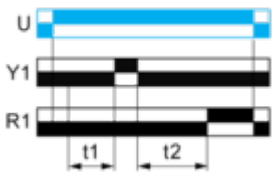
$T = t1 + t2 + \dots$

Function: 2 Outputs with Pause / Summation Control



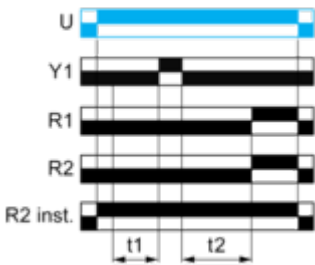
$T = t1 + t2 + \dots$

Function: 1 Output with Retrigger / Restart Control



$T = t1 + t2 + \dots$

Function: 2 Outputs with Retrigger / Restart Control



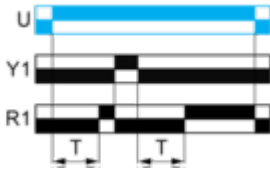
$T = t1 + t2 + \dots$

Function Aw : Power On-Delay With Retrigger / Restart Control

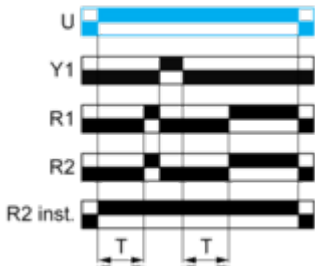
Description

On energisation of power supply, the timing period T starts. At the end of the timing period T, the output(s) R close(s). Energization of Y1 makes the output(s) R open(s). Deenergization of Y1 restarts timing period T. At the end of timing period 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: 1 Output



Function: 2 Outputs

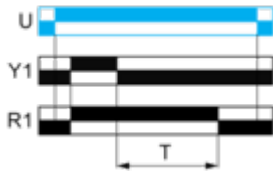


Function C: Off-Delay Relay with Control Signal

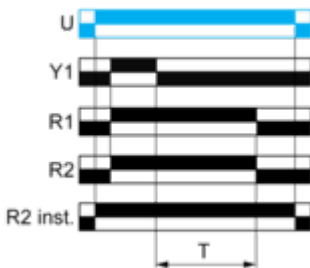
Description

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: 1 Output



Function: 2 Outputs

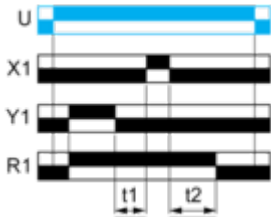


Function Ct: Off-Delay Relay with Control Signal & With Pause / Summation Control

Description

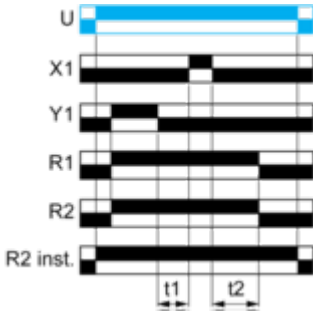
After energisation of power supply and energization of Y1 cause output(s) R close(s). When Y1 deenergizes, timing starts and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



$T = t1 + t2 + \dots$

Function: 2 Outputs



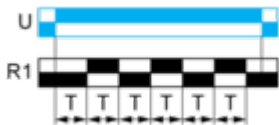
$T = t1 + t2 + \dots$

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

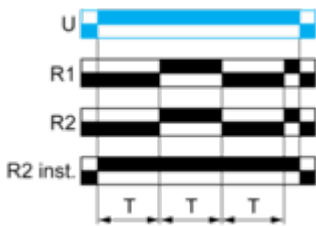
Description

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. Specially for RE17*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



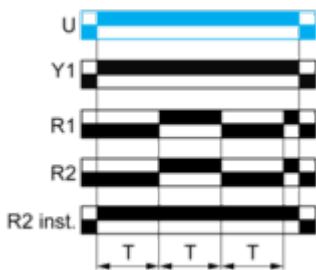
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control

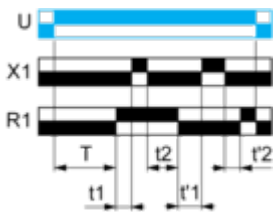


Function Dt: Symmetrical Flashing Relay (Starting Pulse Off) & With Pause / Summation Control

Description

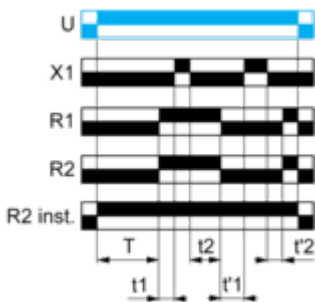
On energisation of power supply, output(s) R starts at its/their initial state for timing duration T and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, then changes to output(s) R close(s). The output(s) R close state will remain for the same timing duration T and the timing can be interrupted / paused each time X1 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: 1 Output



$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

Function: 2 Outputs



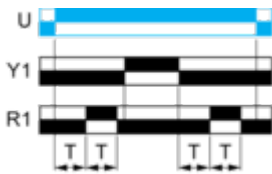
$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

Function DW: Symmetrical Flashing Relay (Starting Pulse Off) & With Retrigger / Restart Control

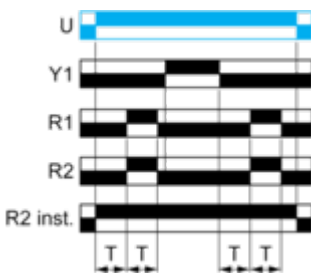
Description

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. Specially for RE17*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

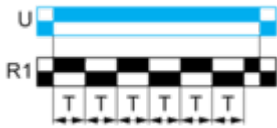


Function Di: Symmetrical Flashing Relay (Starting Pulse On)

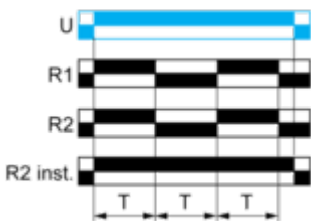
Description

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: 1 Output



Function: 2 Outputs

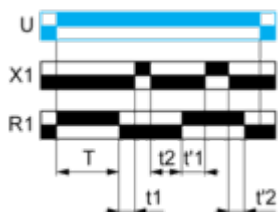


Function Dit: Symmetrical Flashing Relay (Starting Pulse On) & With Pause / Summation Control

Description

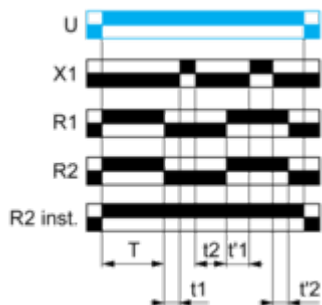
On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, then revert(s) to its/their initial state. The output(s) R at initial state will remain for the same timing duration T and the timing can be interrupted / paused each time X1 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: 1 Output



$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

Function: 2 Outputs



$T = t1 + t2 + \dots$
 $T = t'1 + t'2 + \dots$

Function Div: Symmetrical Flashing Relay (Starting Pulse On) & With Retrigger / Restart Control

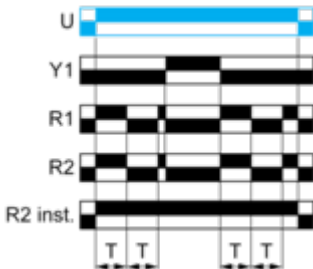
Description

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. At any state of the output(s) R when Y1 energizes, the output(s) R will revert to its/their initial state and followed by Y1 deenergizes then restarts the same operation as described at the beginning. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

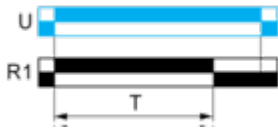


Function H: Interval Relay

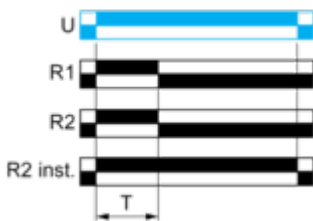
Description

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: 1 Output



Function: 2 Outputs



Function Ht: Interval Relay & With Pause / Summation Control

Description

On energisation of power supply, output(s) R close(s) and timing period T starts.

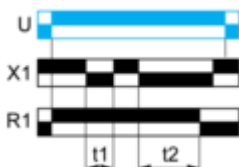
The timing can be interrupted / paused each time X1 energizes.

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 Reenergization of X1 will also cause output(s) R close(s) if the time has elapsed and restart the same operation as described at the beginning.

Except for RE17*, RE22R2MMW, RENF22R2MMW, RE22R2MMU and RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.

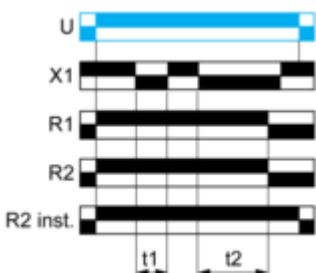
The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 1 Output



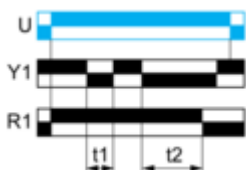
$T = t1 + t2 + \dots$

Function: 2 Outputs



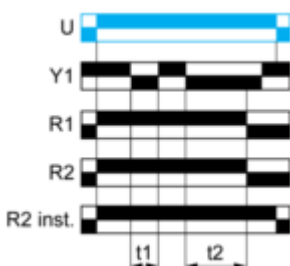
$T = t1 + t2 + \dots$

Function: 1 Output with Retrigger / Restart Control



$T = t1 + t2 + \dots$

Function: 2 Outputs with Retrigger / Restart Control



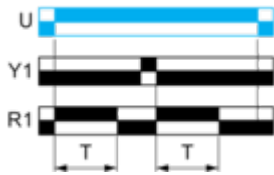
$T = t1 + t2 + \dots$

Function Hw: Interval Relay & with Retrigger / Restart Control

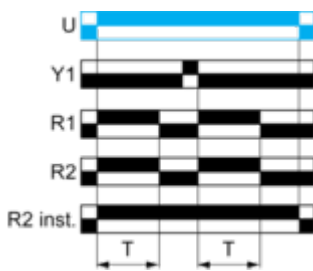
Description

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. At any state of the output(s) R when Y1 energizes followed by deenergizes, the output(s) R close(s) then restarts the same operation as described at the beginning. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs



Function W: Interval Relay with Control Signal Off

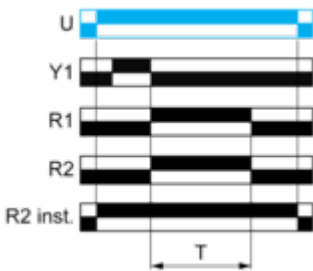
Description

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: 1 Output



Function: 2 Outputs



Function Wt: Interval Relay with Control Signal Off & with Pause / Summation Control

Description

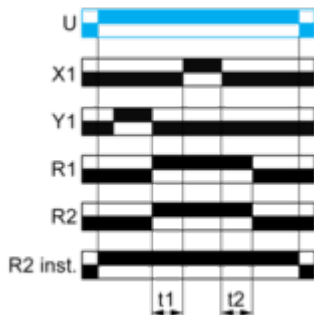
After energisation of power supply and on energization of Y1 following by deenergization of Y1, the output(s) R close(s) and starts the timing T. Timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



$T = t1 + t2 + \dots$

Function: 2 Outputs



$T = t1 + t2 + \dots$

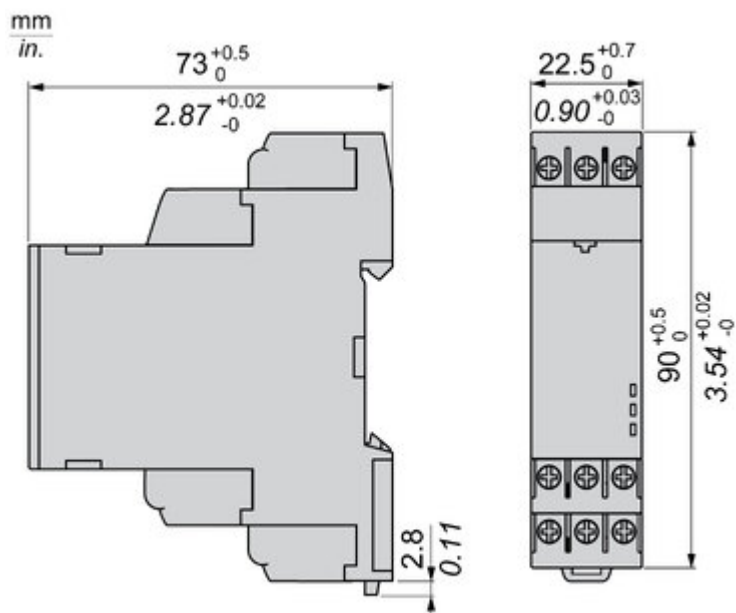
Legend

- Relay de-energised
- Relay energised
- Output open
- Output closed

U -	Supply
R1/R2 -	2 timed outputs
X1 -	Pause / Summation control
Y1 -	Retrigger / Restart control
R2 inst. -	The second output is instantaneous if the right position is selected
T -	Timing period

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony Timer Relay

Flexible choice of screw or spring connection terminals for wiring.

One product reference covering 28 timing functions, 2 outputs, and a wide range of supply voltage 24...240 V AC/DC.

Dust and unintended human intervention avoided thanks to the IP50 lead-sealable settings protection cover.

A Dial-Pointer LED indicator that enhances ease of operation in difficult environments such as dusty or low-light conditions

Different mounting style to meet your preference:
DIN rail mount with product width; 17.5 mm/0.69 in.
22.5 mm/0.88 in.
Plug in mounting with socket



Offer Marketing Illustration

Product benefits / Features



Features

Harmony Timer Relay

-  "Diagnostic button" to check downstream circuit immediately, shorten the commission and troubleshooting time
-  Compatible with a wide range of applications including machines, buildings, water segments, and HVAC.
-  Wide range of time delay for adjustment: from 0.01 s to 999 hrs.
-  Compliant with IEC 60255-1 standard, and a wide array of product certifications such as UL, CE, CSA, EAC.
-  Unprecedented accuracy, predictive maintenance, and superior security.

Image of product / Alternate images

Alternative

