



## Releu de Temporizare 10 Functii, 1 S, 100 H, 12, 240 V Ca/Cc, 1 Id

RE17RMMW

### Principale

|                              |                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| gama de produse              | Harmony Timer Relays                                                                                    |
| tip de iesire discreta       | Releu                                                                                                   |
| Tip produs sau componenta    | Releu de sincronizare modular                                                                           |
| latime                       | 17,5 mm                                                                                                 |
| nume scurt al dispozitivului | RE17R                                                                                                   |
| tip intarziere               | Power on-delay<br>On-delay and off-delay<br>Interval<br>Temporizare la revenire<br>Symmetrical flashing |
| intervalul de intarziere     | 1...10 H<br>0.1...1 s<br>6...60 s<br>10...100 H<br>6...60 min<br>1...10 s<br>1...10 min                 |
| curent nominal de iesire     | 8 A                                                                                                     |

### Suplimentare

|                                      |                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tip si compozitie contacte           | 1 C/O                                                                                                                                                                                                                                                                                                                                  |
| Material contacte                    | Fara cadmiu                                                                                                                                                                                                                                                                                                                            |
| inaltime                             | 90 mm                                                                                                                                                                                                                                                                                                                                  |
| adancime                             | 72 mm                                                                                                                                                                                                                                                                                                                                  |
| tip de control                       | Selector panou frontal                                                                                                                                                                                                                                                                                                                 |
| [Us] tensiune nominala de alimentare | 12...240 V c.a./c.c. 50/60 Hz                                                                                                                                                                                                                                                                                                          |
| interval de tensiune                 | 0,85...1,1 Us                                                                                                                                                                                                                                                                                                                          |
| frecventa de alimentare              | 50...60 Hz +/- 5 %                                                                                                                                                                                                                                                                                                                     |
| release of input voltage             | 5 V                                                                                                                                                                                                                                                                                                                                    |
| conexiuni - borne                    | Borne cu surub, 2 x 0.5 - 1 x 3.3 mm² (AWG 20 - AWG 12) solid fara terminale de cablu<br>Borne cu surub, 3 x 0.5 - 2 x 2.5 mm² (AWG 20...AWG 14) solid fara terminale de cablu<br>Borne cu surub, 1 x 0.2 - 1 x 2.5 mm² (AWG 24 - AWG 14) flexibil cu pini<br>Borne cu surub, 2 x 0.2 - 2 x 1.5 mm² (AWG 24 - AWG 16) flexibil cu pini |
| cuplu de strangere                   | 0,6...1 N.m conformitate cu IEC 60947-1                                                                                                                                                                                                                                                                                                |
| material carcasa                     | Autostingere                                                                                                                                                                                                                                                                                                                           |
| precizie de repetare                 | +/- 0,5 % conformitate cu IEC 61812-1                                                                                                                                                                                                                                                                                                  |

Declinare de responsabilitate: Această documentație nu se substituie și nu trebuie utilizată pentru stabilirea adecvării sau fiabilității acestor produse pentru aplicații utilizator

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                     | Power on-delay - A- Power on-delay relay<br>On-delay and off-delay - Ac- On-delay and off-delay relay w/ control signal<br>Power on-delay - At- Power on-delay relay w/ pause/summation (Y1)<br>Interval - B- Single interval relay w/ control signal<br>Interval - Bw- Double interval relay w/ control signal<br>Temporizare la revenire - C- Off-delay relay w/ control signal<br>Symmetrical flashing - D- Symmetrical flashing relay (starting pulse-off)<br>Symmetrical flashing - Di- Symmetrical flashing relay (starting pulse-on)<br>Interval - H- Interval relay<br>Interval - Ht- Interval relay w/ pause/summation (Y1) |
| control signal pulse width          | 100 ms cu sarcina în paralel tipic<br>30 ms tipic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| rezistenta de izolatie              | 100 MΩ la 500 V c.c. conformitate cu SR EN 60664-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| resetare timp                       | 120 ms la întreruperea alimentarii tipic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| factor de sarcina                   | 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| puterea consumata in VA             | 0...3 VA la 240 V c.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| consum de putere maxim in W         | 1,5 W la 240 V c.c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| curentul minim de comutare          | 10 mA la 5 V c.c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| curent maxim de comutatie           | 8 A c.a./c.c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| tensiunea maxima de comutatie       | 250 V c.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| capacitate de rupere                | 2000 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| operating frequency                 | 10 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| durabilitate electrica              | 100000 cic pentru rezistiv sarcina (8 A la 250 V c.a. maxim)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| durabilitate mecanica               | 10000000 cic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| rigiditate dielectrica              | 2,5 kV 1 mA/1 minut 50 Hz conformitate cu IEC 61812-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [Uimp] tensiune de tinere la impuls | 5 kV in timpul 1.2/50 μs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| power on delay                      | 100 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| marcaj                              | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| distanța de conturare               | 4 kV/3 conformitate cu SR EN 60664-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| fiabilitate securitate date         | MTTFd = 296.8 ani<br>B10d = 270000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| pozitia de montaj                   | Orice poziție în raport cu planul normal vertical de montare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| suport de montare                   | Sina DIN 35 mm conformitate cu IEC 60715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| semnalizare locala                  | Indicator cu LED pentru la funcționare stabilă: releu alimentat, fără temporizare în curs<br>Indicator cu LED 80 % ON și 20 % OFF pentru intermitent: temporizare în curs<br>Indicator cu LED 5 % ON și 95 % OFF pentru impulsuri: releu nealim., fără tempo. în progres (excepție funcția Di-D, Li-L)                                                                                                                                                                                                                                                                                                                               |
| functie disponibila                 | A- Power on-delay relay-1 C/O<br>Ac- On-delay and off-delay relay w/ control signal-1 C/O<br>At- Power on-delay relay w/ pause/summation (Y1)-1 C/O<br>B- Single interval relay w/ control signal-1 C/O<br>Bw- Double interval relay w/ control signal-1 C/O<br>C- Off-delay relay w/ control signal-1 C/O<br>D- Symmetrical flashing relay (starting pulse-off)-1 C/O<br>Di- Symmetrical flashing relay (starting pulse-on)-1 C/O<br>H- Interval relay-1 C/O<br>Ht- Interval relay w/ pause/summation (Y1)-1 C/O                                                                                                                    |
| greutate produs                     | 0,07 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                     |                                   |
|---------------------|-----------------------------------|
| tip de control      | Without test button               |
| Number of functions | 10                                |
| time delay type     | A, Ac, At, B, Bw, C, D, Di, H, Ht |
| functionalitate     | Multifunctie                      |
| Cod compatibilitate | RE17                              |

## Mediu

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| imunitate la microintreruperi           | 20 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| standarde                               | 2006/95/EC<br>IEC 61000-6-3<br>IEC 61812-1<br>IEC 61000-6-2<br>IEC 61000-6-1<br>2004/108/EC<br>IEC 61000-6-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| certificari produs                      | CSA<br>GL<br>cULus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| temperatura ambietala pentru depozitare | -30...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| temperatura ambientala de functionare   | -20...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| grad de protectie IP                    | IP20 conformitate cu SR EN 60529 (cutie de borne)<br>IP40 conformitate cu SR EN 60529 (carcasă)<br>IP50 conformitate cu SR EN 60529 (panou frontal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| rezistenta la vibratii                  | 20 m/s² (f= 10...150 Hz) conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| rezistenta la socuri                    | 15 gn pentru 11 ms conformitate cu IEC 60068-2-27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| umiditate relativa                      | 93 % fără condensare conformitate cu IEC 60068-2-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| compatibilitate electromagnetica        | Test de imunitate la descarcari electrostatice nivel de test: 6 kV (în contact) nivel 3 conformitate cu IEC 61000-4-2<br>Test de imunitate la descarcari electrostatice nivel de test: 9 kV (în aer) nivel 3 conformitate cu IEC 61000-4-2<br>Sensibilitate la câmpuri electromagnetice nivel de test: 10 V/m (80 MHz la 1 GHz) nivel 3 conformitate cu IEC 61000-4-3<br>Tranzienți rapizi/test de imunitate la impulsuri de ionizare nivel de test: 1 kV (brida de conectare capacitiva) nivel 3 conformitate cu IEC 61000-4-4<br>Tranzienți rapizi/test de imunitate la impulsuri de ionizare nivel de test: 2 kV (direct) nivel 3 conformitate cu IEC 61000-4-4<br>1.2/50 µs test de imunitate la undă de șoc nivel de test: 1 kV (mod diferential) nivel 3 conformitate cu IEC 61000-4-5<br>1.2/50 µs test de imunitate la undă de șoc nivel de test: 2 kV (mod comun) nivel 3 conformitate cu IEC 61000-4-5<br>Perturbații conduse de RF nivel de test: 10 V (0.15 - 80 MHz) nivel 3 conformitate cu IEC 61000-4-6<br>Test de imunitate la căderi de tensiune și întreruperi nivel de test: 1 % (1 ciclu) conformitate cu IEC 61000-4-11<br>Test de imunitate la căderi de tensiune și întreruperi nivel de test: 71 % (25/30 cicluri) conformitate cu IEC 61000-4-11<br>Emisii conduse și radiateclasa B conformitate cu EN 55022 |

## Unitati de ambalare

|                                                     |          |
|-----------------------------------------------------|----------|
| Unitate de masura pentru prima forma de impachetare | PCE      |
| Numar unitati in prima forma de impachetare         | 1        |
| Inaltime prima forma de impachetare                 | 2,700 cm |
| Latime prima forma de impachetare                   | 8,000 cm |
| Lungime prima forma de impachetare                  | 9,500 cm |
| Greutate prima forma de impachetare                 | 81,000 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                  | 3,735 kg  |
| Unitate de masura pentru a treia forma de impachetare | P06       |
| Numar unitati in a treia forma de impachetare         | 640       |
| Inaltime a treia forma de impachetare                 | 75,000 cm |
| Latime a treia forma de impachetare                   | 60,000 cm |
| Lungime a treia forma de impachetare                  | 80,000 cm |
| Greutate a treia forma de impachetare                 | 70,000 kg |

## Garanție contractuală

|          |         |
|----------|---------|
| Garantie | 18 luni |
|----------|---------|

Environmental Data

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 (kg CO2 eq.) | 55                                               |
| Raport de mediu                 | <a href="#">Profilul ambiental al produsului</a> |

Use Better

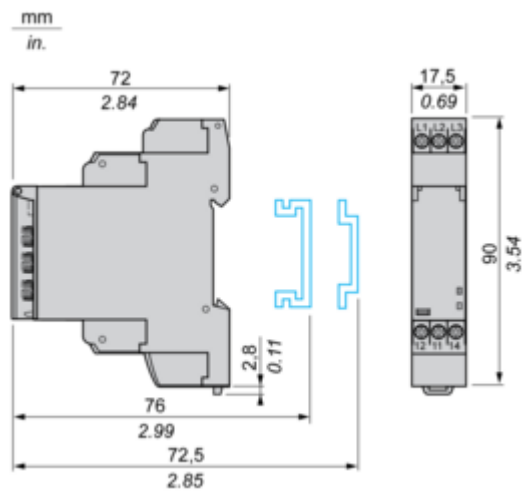
| Materiale si ambalare             |                                                                           |
|-----------------------------------|---------------------------------------------------------------------------|
| Pachet cu carton reciclabil       | Da                                                                        |
| Ambalaj fara plastic              | Da                                                                        |
| <a href="#">Directiva RoHS UE</a> | Conformitate proactiva (Produs in afara domeniului de aplicare a EU RoHS) |
| Numar SCIP                        | 7bdc2711-0ad2-427c-8ece-532c5e9f09d7                                      |
| Regulamentul REACH                | <a href="#">Declaratia REACH</a>                                          |

Use Again

| Reambalare si refabricare              |                                                               |
|----------------------------------------|---------------------------------------------------------------|
| Profil circularitate                   | <a href="#">Informatii privind sfarsitul duratei de viata</a> |
| Preluare la sfarsitul duratei de viata | No                                                            |

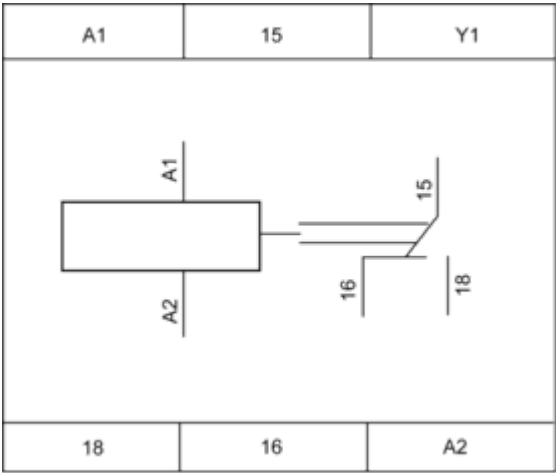
Dimensions Drawings

Width 17.5 mm



Connections and Schema

Internal Wiring Diagram





Technical Description

Function A : Power on Delay Relay

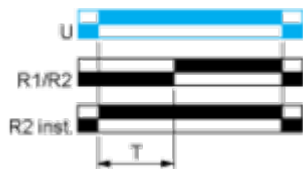
Description

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



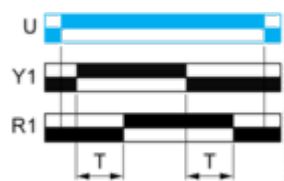
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ac: On-Delay & Off-Delay with Control Signal

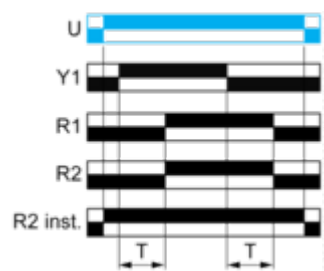
Description

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

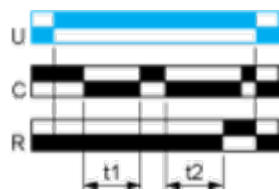


Function At : Power on Delay Relay (Summation) with Control Signal

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

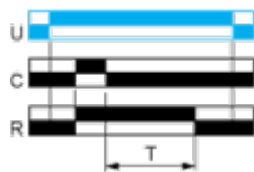


Function C : Off-Delay Relay with Control Signal

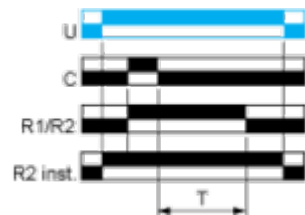
Description

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



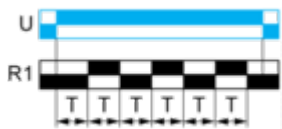
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

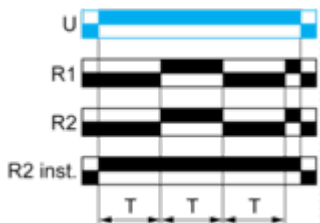
Description

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").

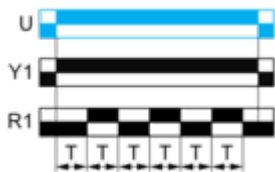
Function: 1 Output



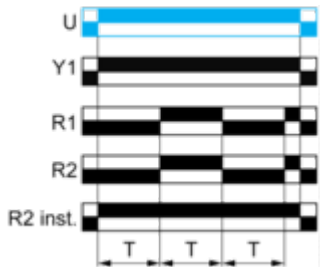
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Function Di : Symmetrical Flasher Relay (Starting Pulse On)

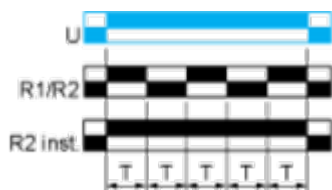
Description

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

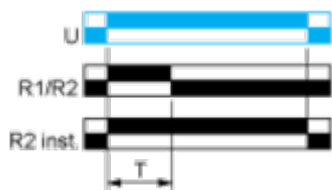
Description

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



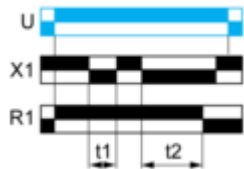
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Ht: Interval Relay & With Pause / Summation Control

Description

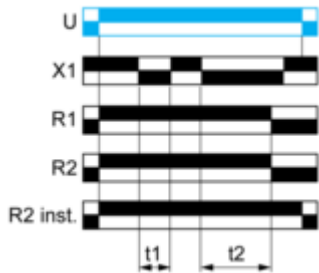
On energisation of power supply, output(s) R close(s) and timing period T starts.  
The timing can be interrupted / paused each time X1 energizes.  
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state  
Reenergization of 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



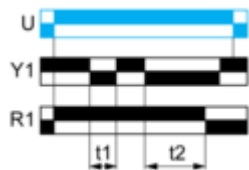
$T = t1 + t2 + \dots$

Function: 2 Outputs



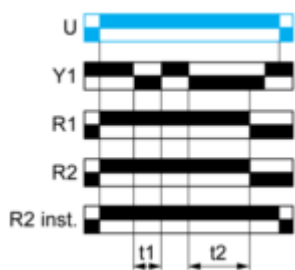
$T = t1 + t2 + \dots$

Function: 1 Output with Retrigger / Restart Control



$T = t1 + t2 + \dots$

Function: 2 Outputs with Retrigger / Restart Control



$T = t1 + t2 + \dots$

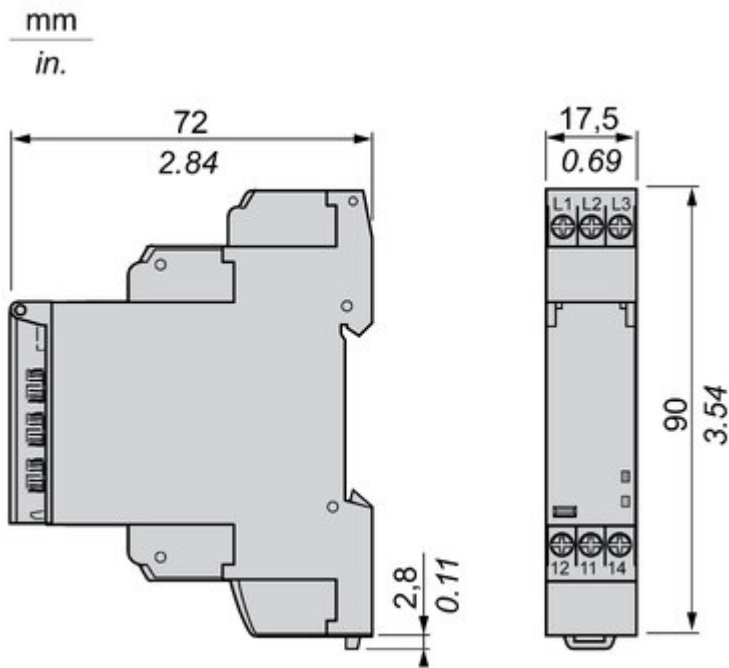
Legend

-  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                                                               |

Technical Illustration

Dimensions

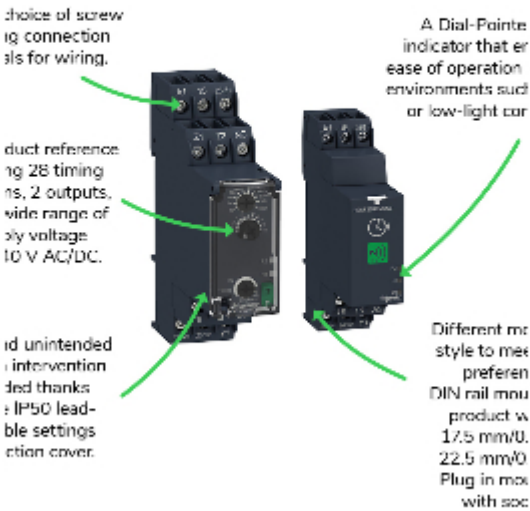


Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony Timer Relay



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

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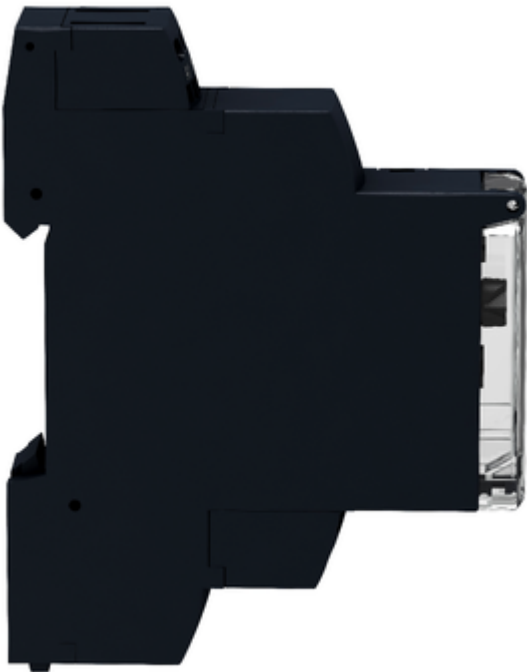






Image of product in real life situation

