

# Productinformatieblad

Specificaties



## Harmony - Tijdrelais - Multifunctioneel - 24V DC/24-240V AC - 2CO

RE22R2MXMU

EAN Code: 3606480676604

**Prijs: 76,55 EUR**

### Hoofd

range of product	Harmony-timerrelais
digitaal uitgangstype	Relais
product or component type	Modulaire tijdrelais
device short name	RE22
nominale uitgangsstroom	8 A

### Complementair

type en samenstelling contact	1 C/O tijdcontact 1 C/O tijd- of onmiddellijk contact
type tijdsvertraging	Pulsvertraging Safe-guard Tastbaar Print gegevens
tijdsvertraging bereik	0.1...1 s 1...10 h 1...10 s 6...60 min 10...100 h 6...60 s 1...10 min
besturingstype	Draaiknop voorpaneel
Us nominale voedingsspanning	24...240 V AC 24 V DC
spanningsbereik	0,85...1,1 Us
voedingsfrequentie	50...60 Hz +/- 5 %
aansluitingen - aansluitklemmen	Schroefklemmen, 2 x 1,5 mm <sup>2</sup> met kabeluiteinde Schroefklemmen, 2 x 2,5 mm <sup>2</sup> zonder kabeluiteinde
aandraaimoment	0,6...1 N.m conform aan IEC 60947-1
materiaal behuizing	Zelf dovend
herhalingsnauwkeurigheid	+/-0.5% conform aan IEC 61812-1
temperatuurafwijking	+/- 0,05 %/°C
spanningsverloop	+/- 0,2 %/V
instelling nauwkeurigheid tijdsvertraging	+/- 10% van totaal bij 25 °C conform aan IEC 61812-1

De weergegeven prijs is de adviesprijs in euro excl. BTW. Deze kan onderhevig zijn aan korting. Neem contact op met uw lokale distributeur of detailhandel voor de daadwerkelijke prijs

<b>Time delay type</b>	Pulsvertraging - Ad- pulsvertraagd relais m/ controlesignaal Pulsvertraging - Ah- pulsvertraagd relais (één cyclus) m/ controlesignaal Safe-guard - N- Veilig beveiligingsrelais Safe-guard - O- vertraagd veiligheidsrelais Pulsvertraging - P- Pulsvertraagd relais met vaste pulslengte Pulsvertraging - Pt- Pulsvertraagd relais met vaste pulslengte en pauze/optelling Tastbaar - TI - Bistable relais met controlesignaal aan Tastbaar - Tt-Heractiveerbaar belastbaar relais met controlesignaal aan Print gegevens - W- Intervalrelais met controlesignaal uit
<b>impulsduur</b>	30 ms 100 ms onderbelasting
<b>isolatieweerstand</b>	100 MOhm bij 500 V DC conform aan IEC 60664-1
<b>Hersteltijd</b>	120 ms bij ontkrachting
<b>immuñiteit voor micro-onderbrekingen</b>	10 ms
<b>maximaal energieverbruik in VA</b>	50 VA bij 240 V AC
<b>maximaal energieverbruik in W</b>	0,7 W bij 24 V DC
<b>uitschakelvermogen</b>	2000 VA
<b>minimale schakelstroom</b>	10 mA bij 5 V
<b>maximale schakelstroom</b>	8 mA
<b>maximale schakelspanning</b>	250 V
<b>elektrische duurzaamheid</b>	100000 cycles voor resistief laden, 8 A bij 250 V, AC
<b>mechanical durability</b>	10000000 cycles
<b>Uimp toegekende schokgolfspanning</b>	5 kV voor 1,2...50 µs conform aan IEC 60664-1 5 kV conform aan IEC 61812-1
<b>Vertraging bij inschakeling</b>	100 ms
<b>betrouwbaarheidsgegevens veiligheid</b>	B10d = 170000 MTTFd = 182.6 jaar
<b>montagepositie</b>	Eender welke positie in verhouding tot het normale verticale montagevlak
<b>montagesteun</b>	35mm DIN rail conform aan IEC 60715
<b>status LED</b>	Groen LED (Flitsend) voor timing in progress Groen LED (Vast) voor stroom AAN Geel LED voor relais bekrachtigd
<b>functie beschikbaar</b>	Ad- pulsvertraagd relais m/ controlesignaal-2 C/O Ah- pulsvertraagd relais (één cyclus) m/ controlesignaal-2 C/O N- Veilig beveiligingsrelais-2 C/O O- vertraagd veiligheidsrelais-2 C/O P- Pulsvertraagd relais met vaste pulslengte-2 C/O Pt- Pulsvertraagd relais met vaste pulslengte en pauze/optelling-2 C/O TI - Bistable relais met controlesignaal aan-2 C/O Tt-Heractiveerbaar belastbaar relais met controlesignaal aan-2 C/O W- Intervalrelais met controlesignaal uit-2 C/O
<b>width</b>	22,5 mm
<b>net weight</b>	0,09 kg
<b>control type</b>	Met testknop
<b>Aantal functies</b>	9

## Omgeving

<b>doorslagvastheid</b>	2,5 kV voor 1 mA/1 minuut bij 50 Hz conform aan IEC 61812-1
<b>standards</b>	IEC 61812-1 IEC 61000-6-1 IEC 61000-6-3 IEC 61000-6-4 IEC 61000-6-2

<b>richtlijnen</b>	2006/95/EG - laagspanningsrichtlijn 2004/108/EG - Elektromagnetische compatibiliteit
<b>product certifications</b>	CSA CCC GL cULus EAC CE RCM
<b>ambient air temperature for operation</b>	-20...60 °C
<b>ambient air temperature for storage</b>	-30...60 °C
<b>IP beschermingsgraad</b>	Behuizing: IP40 conform aan IEC 60529 Voorkant: IP50 conform aan IEC 60529 Klemmenblok: IP20 conform aan IEC 60529
<b>trilling bestendigheid</b>	20 m/s <sup>2</sup> (f= 10...150 Hz) conforming to IEC 60068-2-6
<b>schokbestendigheid</b>	15 gn voor 11 ms conform aan IEC 60068-2-27
<b>relatieve vochtigheid</b>	93 %, zonder condensatie conform aan IEC 60068-2-30
<b>elektromagnetische compatibiliteit</b>	Elektrostatische ontlading immuniteitstest - test level: 6 kV niveau 3 (contactontlading) conforming to IEC 61000-4-2 Elektrostatische ontlading immuniteitstest - test level: 8 kV niveau 3 (luchtontlading) conforming to IEC 61000-4-2 Fast transients immunity test - test level: 1 kV niveau 3 (capacitieve verbindingsclip) conforming to IEC 61000-4-4 Fast transients immunity test - test level: 2 kV niveau 3 (direct contact) conforming to IEC 61000-4-4 Immuniteitstest overspanning - test level: 1 kV niveau 3 (differentieelmodus) conforming to IEC 61000-4-5 Immuniteitstest overspanning - test level: 2 kV niveau 3 (gewone modus) conforming to IEC 61000-4-5 Radiofrequent elektromagnetisch veld immuniteitstest - test level: 10 V niveau 3 (0,15...80 MHz) conforming to IEC 61000-4-6 Elektromagnetisch veld immuniteitstest - test level: 10 V/m niveau 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Bestand tegen micro-onderbrekingen en spanningsverlies - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Bestand tegen micro-onderbrekingen en spanningsverlies - test level: 100 % (20 ms) conforming to IEC 61000-4-11

## Verpakkingseenheid

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	3,100 cm
<b>Package 1 Width</b>	8,900 cm
<b>Package 1 Length</b>	10,000 cm
<b>Package 1 Weight</b>	106,000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	40
<b>Package 2 Height</b>	15,000 cm
<b>Package 2 Width</b>	30,000 cm
<b>Package 2 Length</b>	40,000 cm
<b>Package 2 Weight</b>	4,622 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	640
<b>Package 3 Height</b>	70,000 cm

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<b>Package 3 Width</b>	60,000 cm
<b>Package 3 Length</b>	80,000 cm
<b>Package 3 Weight</b>	90,709 kg

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## Environmental Data

Schneider Electric wil tegen 2050 de Net Zero-status hebben bereikt via partnerschappen in de toeleveringsketen, materialen met een lagere impact en circulariteit via onze doorlopende campagne "Use Better, Use Longer, Use Again" om de levensduur van producten en de recycleerbaarheid te verlengen.

[Uitleg van Environmental Data](#) >

[Hoe evalueren we de duurzaamheid van producten?](#) >

### Milieuoetafdruk

Totale levenscyclus ecologische voetafdruk	54
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## Use Better

### Materialen en verpakking

Pakket met gerecycleerd karton	Ja
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Verpakkingen zonder kunststof	Ja
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<a href="#">EU-richtlijn RoHS</a>	Voldoet pro-actief (Product valt niet onder de EU RoHS juridische scope)
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SCIP-nummer	7bdc2711-0ad2-427c-8ece-532c5e9f09d7
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REACH-regelgeving	<a href="#">REACH-verklaring</a>
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## Use Again

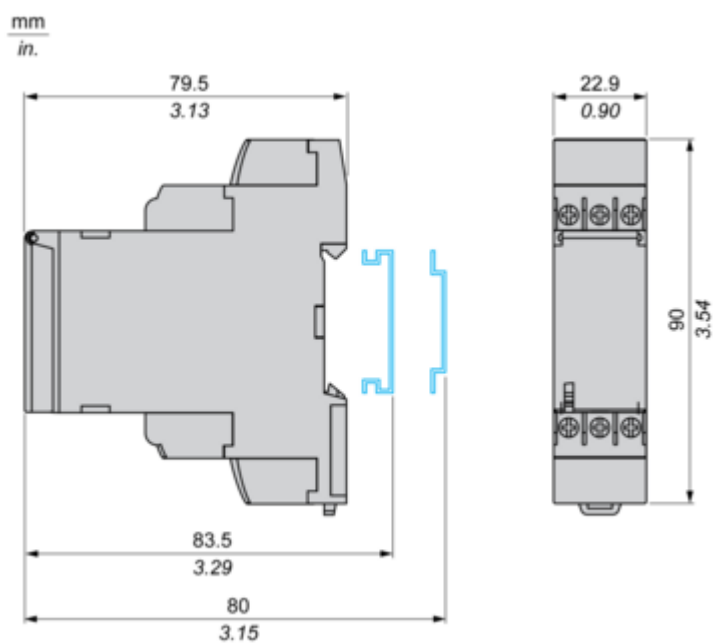
### Herverpakken en herfabriceren

Terugname	No
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Dimensions Drawings

Dimensions

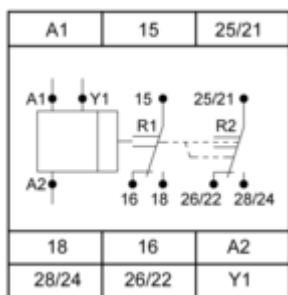
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Connections and Schema

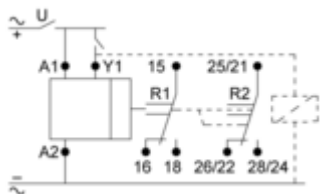
Internal Wiring Diagram

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Wiring Diagram

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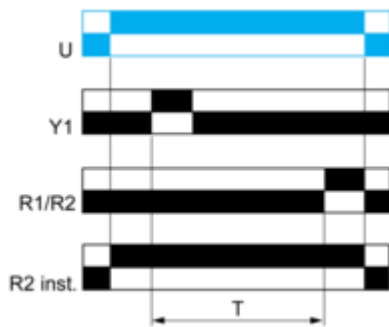
Technical Description

**Function Ad : Pulse Delayed Relay with Control Signal**

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**Description**

After power-up, pulsing or maintaining of control contact Y1 starts the timing T.  
 At the end of this timing period T, the output R closes.  
 The output relay will be reset the next time control contact Y1 is pulsed or maintained.

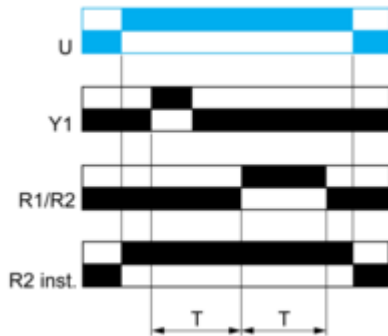


**Function Ah : Pulse Delayed Relay (Single Cycle) with Control Signal**

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**Description**

After power-up, pulsing or maintaining of control contact Y1 starts the timing T. A single cycle then starts with 2 timing periods T of equal duration (start with output in rest position). Output relay closes at the end of the first timing period T and reverts to its initial position at the end of the second timing period T. Control contact Y1 must be reset in order to re-start the single flashing cycle.



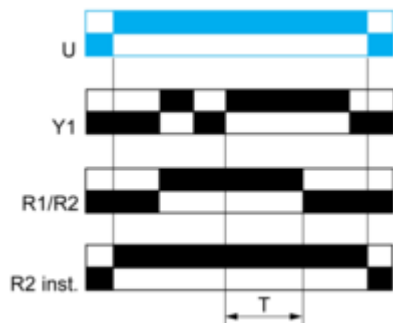
**Function N : Retriggerable Interval Relay with Control Signal On**

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**Description**

After power-up and an initial control pulse C, the output relay closes.

If the interval between two control pulses C is greater than the set timing period T, timing elapses normally and the output relay closes at the end of the timing period. If the interval is not greater than the set timing period, the output relay remains closed until this condition is met.

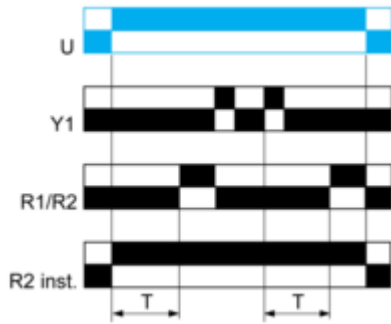


**Function O : Retriggerable Interval Delayed Relay with Control Signal On**

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**Description**

An initial timing period  $T$  begins on energization. At the end of this timing period, the output relay closes. As soon as there is a control pulse  $C$ , the output relay reverts to its initial state until the interval between two control pulses is less than the value of the set timing period  $T$ . Otherwise, the output relay closes at the end of the timing period  $T$ .



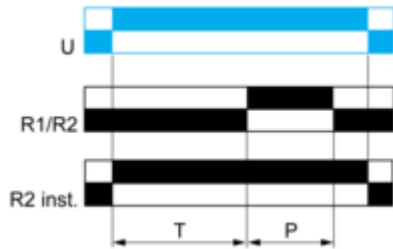
**Function P : Pulse Delayed Relay with Fixed Pulse Length**

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**Description**

The timing period T begins on energization.

At the end of this period, the output relay closes for a fixed time P.

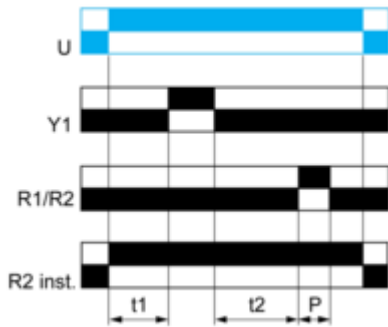


Function Pt : Pulse Delayed Relay (Summation and Fixed Pulse Length) with Control Signal Off

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**Description**

On energization, timing period T starts (it can be interrupted by operating the Gate control contact G).  
At the end of this period, the output relay closes for a fixed time P.



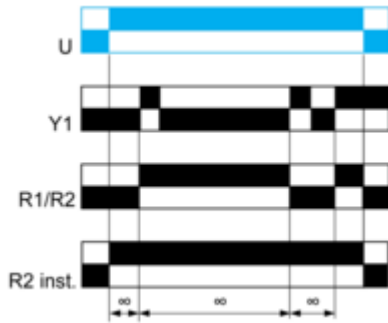
$T = t1+t2$   $P = 500ms$

**Function TL : Bistable Relay with Control Signal On**

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**Description**

After power-up, pulsing or maintaining of control contact Y1 switches the output on.  
A second pulse on the control contact Y1 switches the output relay off.

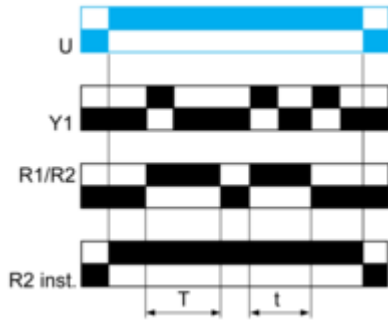


**Function Tt :Retriggerable Bistable Relay with Control Signal On**

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**Description**

After power-up, pulsing or maintaining of control contact Y1 switches output relay on and starts timing T. The output switches off at the end of the timing period T or following a second pulse on the control contact Y1.



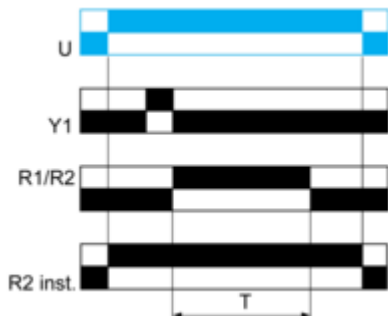
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

**Function W :Interval Relay with Control Signal Off**

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**Description**

After power-up and opening of the control contact, the output(s) close(s) for a timing period T. At the end of this timing period the output(s) revert(s) to its/their initial state.



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

**Legend**

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

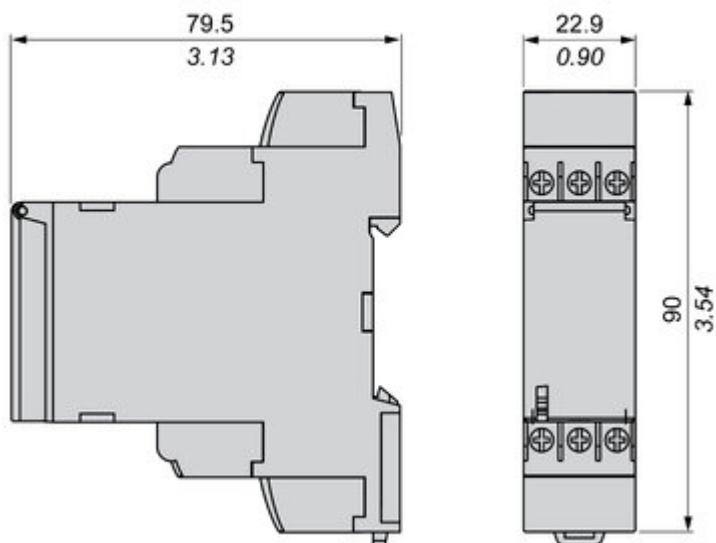
Y1 :	Control contact
R1/R2 :	2 timed outputs
R2 inst. :	The second output is instantaneous if the right position is selected
T :	Timing period
U :	Supply

Technical Illustration

Dimensions

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mm  
in.



Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony Timer Relay

choice of screw  
ing connection  
als for wiring.

duct reference  
ing 28 timing  
ns, 2 outputs.  
wide range of  
ply voltage  
10 V AC/DC.

id unintended  
intervention  
ed thanks  
: IP50 lead-  
ble settings  
ction cover.



A Dial-Pointe  
indicator that er  
ease of operation  
environments such  
or low-light con

Different mo  
style to mee  
preferen  
DIN rail mou  
product w  
17.5 mm/U,  
22.5 mm/U  
Plug in mod  
with soc

Offer Marketing Illustration

Product benefits / Features

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### 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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