# Produktdatablad

Specifikationer

## Harmony tidsrelæ 17,5 mm med 10 funktioner (0,1 Sek-100 Timer) med 1 C/O relæudgang på 8A og 12-240VAC/DC

El-nr.:

7523006665 RE17RMMW

**EAN-nr: 3606480552762**

## Egenskaber

| | |
|---|---|
| **Produktserie** | Harmony Timer Relays |
| **digital udgangstype** | Relæ |
| **Produkttype** | Modular timing relay |
| **bredde** | 17,5 mm |
| **Enhedsforkortelse** | "RE17R" |
| **Tidsforsinkelsestype** | Power on-delay<br>On-delay and off-delay<br>Interval<br>Off-tidsforsinket<br>Symmetrical flashing |
| **Tidsforsinkelse** | 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 |
| **Nominel udgangsstrøm** | 8 A |

## Produktinformationer

| | |
|---|---|
| **Kontakttype og sammensætning** | 1 C/O |
| **Kontaktmateriale** | Cadmium free |
| **Højde** | 90 mm |
| **Dybde** | 72 mm |
| **betjening** | Selector switch front panel |
| **[Us] forsyningsspænding** | 12...240 V AC/DC 50/60 Hz |
| **Spændingsområde** | 0.85...1.1 Us |
| **tilslutningsfrekvens** | 50...60 Hz +/- 5 % |
| **release of input voltage** | 5 V |
| **tilslutningsklemmer** | Skrueterminaler, 1 x 0.5...1 x 3.3 mm² (AWG 20...AWG 12) stiv Uden kabeltylle<br>Skrueterminaler, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) stiv Uden kabeltylle<br>Skrueterminaler, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 14) Fleksibel Med kabeltylle<br>Skrueterminaler, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) Fleksibel Med kabeltylle |
| **Tilspændingsmoment** | 0,6…1 N.m i henhold til IEC 60947-1 |
| **Kapslingsmateriale** | Self-extinguishing |
| **gentagelsesnøjagtighed** | +/- 0.5 % i henhold til IEC 61812-1 |
| **Temperaturdrift** | +/- 0.05 %/°C |

| | |
|---|---|
| **Spændingsdrift** | +/- 0.2 %/V |
| **indstillingsnøjagtighed for tidsforsinkelse** | +/- 10 % af fuld skala ved "25 °C" i henhold til 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>Off-tidsforsinket - 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 med load in parallel typical<br>30 ms typical |
| **isolationsmodstand** | 100 MOhm ved 500 V DC i henhold til IEC 60664-1 |
| **resettid** | 120 milisekund På afbrydelse af forsyning typical |
| **belastningsfaktor** | 100 % |
| **effektforbrug i VA** | 0…3 VA ved 240 V AC |
| **effektforbrug i W** | 1,5 W ved 240 V DC |
| **Mindste sluttestrøm** | 10 mA ved 5 V DC |
| **maksimum sluttestrøm** | 8 A AC/DC |
| **masimal spænding** | 250 V AC |
| **Brydeevne** | 2000 VA |
| **operating frequency** | 10 Hz |
| **elektrisk holdbarhed** | 100000 kredsløb til modstandsdygtig belastning (8 A ved 250 V AC maksimum) |
| **Mekanisk holdbarhed** | 10000000 kredsløb |
| **dielektrisk gennemslagsholdbarhed** | 2,5 kV 1 mA/1 minut 50 Hz i henhold til IEC 61812-1 |
| **[Uimp] impulsmodstandsspænding** | 5 kV gennem 1.2/50 µs |
| **power on delay** | 100 milisekund |
| **Mærkning** | CE |
| **creepage distance** | "4 kV/3" i henhold til IEC 60664-1 |
| **sikkerhedsdata** | MTTFd = 296.8 years<br>B10d = 270000 |
| **mounting position** | Any position in relation to normal vertical mounting plane |
| **Montagevejledning** | 35 mm DIN skinne i henhold til "IEC 60715" |
| **lokal indikering** | LED indikator til on steady: relay energised, no timing in progress<br>LED indikator 80 % ON and 20 % OFF til flashing: timing in progress<br>LED indikator 5 % ON and 95 % OFF til pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) |
| **funktion tilgængelig** | 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 |
| **Vægt** | 0,07 kg |
| **Type af betjening** | Uden testknap |

| | |
|---|---|
| **Number of functions** | 10 |
| **time delay type** | A, Ac, At, B, Bw, C, D, Di, H, Ht |
| **funktionalitet** | Multifunction |
| **Kompatibilitetskode** | RE17 |

## Miljø

| | |
|---|---|
| **imunitet over for microafbrydelser** | 20 milisekund |
| **Standarder** | 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 |
| **Produktcertificeringer** | CSA<br>GL<br>cULus |
| **Omgivelsestemperatur ved opbevaring** | -30…60 °C |
| **Omgivelsestemperatur under drift** | -20…60 °C |
| **IP kapslingsklasse** | IP20 i henhold til IEC 60529 (terminal blok)<br>IP40 i henhold til IEC 60529 (kabinet)<br>IP50 i henhold til IEC 60529 (Tavlefront) |
| **Vibrationsmodstand** | "20 m/s²" (f= 10…150 Hz) conforming to IEC 60068-2-6 |
| **Modstandsdygtighed overfor stød** | 15 gn til 11 milisekund i henhold til IEC 60068-2-27 |
| **relativ fugtighed** | 93 % uden kondensering i henhold til IEC 60068-2-30 |
| **elektromagnetisk kompatibilitet** | Immunitetstest overfor elektrostatisk afladning: testniveauel: 6 kV (i kontakt) , Level 3 i henhold til IEC 61000-4-2<br>Immunitetstest overfor elektrostatisk afladning: testniveauel: 8 kV (i luft) , Level 3 i henhold til IEC 61000-4-2<br>Modtagelighed overfor elektromagnetiske felter: testniveauel: 10 V/m (80 MHz til 1 GHz) , Level 3 i henhold til IEC 61000-4-3<br>Immunitetstest overfor hurtige elektriske transienter: testniveauel: 1 kV (capacitive connecting clip) , Level 3 i henhold til IEC 61000-4-4<br>Immunitetstest overfor hurtige elektriske transienter: testniveauel: 2 kV (direkte) , Level 3 i henhold til IEC 61000-4-4<br>1.2/50 µs chokbølge immunitetstest: testniveauel: 1 kV (Differential tilstand) , Level 3 i henhold til IEC 61000-4-5<br>1.2/50 µs chokbølge immunitetstest: testniveauel: 2 kV (Almindelig tilstand) , Level 3 i henhold til IEC 61000-4-5<br>Udledt RF forstyrelser: testniveauel: 10 V (0.15...80 MHz) , Level 3 i henhold til IEC 61000-4-6<br>Voltage dips and interruptions immunity test: testniveauel: 0 % (1 cyklus) i henhold til IEC 61000-4-11<br>Voltage dips and interruptions immunity test: testniveauel: 70 % (25/30 cyklus) i henhold til IEC 61000-4-11<br>Emissionsstråling og udledelse: , Klasse B i henhold til EN 55022 |

## Forpakningsinformation

| | |
|---|---|
| **Enhedstype af pakke 1** | PCE |
| **Antal enheder i pakke 1** | 1 |
| **Pakke 1 Højde** | 2,700 cm |
| **Pakke 1 Længde** | 8,000 cm |
| **Package 1 Length** | 9,500 cm |
| **Pakke 1 Vægt** | 81,000 g |
| **Enhedstype af pakke 2** | S02 |
| **Antal enheder i pakke 2** | 40 |

| | |
|---|---|
| **Pakke 2 Højde** | 15,000 cm |
| **Pakke 2 Bredde** | 30,000 cm |
| **Pakke 2 Længde** | 40,000 cm |
| **Pakke 2 Vægt** | 3,735 kg |
| **Enhedstype af pakke 3** | P06 |
| **Antal enheder i pakke 3** | 640 |
| **Pakke 3 Højde** | 75,000 cm |
| **Pakke 3 Bredde** | 60,000 cm |
| **Pakke 3 Længde** | 80,000 cm |
| **Pakke 3 Vægt** | 70,000 kg |

## Logistik informationer

| | |
|---|---|
| **Oprindelsesland** | ID |

## Environmental Data

Schneider Electrics mål er at opnå Net Zero-status i 2050 gennem partnerskaber med forsyningskæden, materialer med lavere påvirkning og cirkularitet via vores igangværende kampagne "Use Better, Use Longer, Use Again" for at forlænge produkternes levetid og genbrugelighed.

Forklaring af Environmental Data >

Sådan vurderer vi produktets bæredygtighed >

### Miljøfodaftryk

| | |
|---|---|
| CO2-belastning (kg CO2 eq.) | 55 |
| Miljøoplysning | Miljøprofil for produkt |

## Use Better

### Materialer og emballage

| | |
|---|---|
| Pakke med genbrugspap | Yes |
| Emballage uden plast | Yes |
| EU RoHS-direktivet | Proaktiv overensstemmelse (produkt ikke omfattet af EU RoHS) |
| SCIP-nummer | 948566f8-a5c9-4da0-afbe-9524116a5ab8 |
| Reach-forordning | REACh-erklæring |

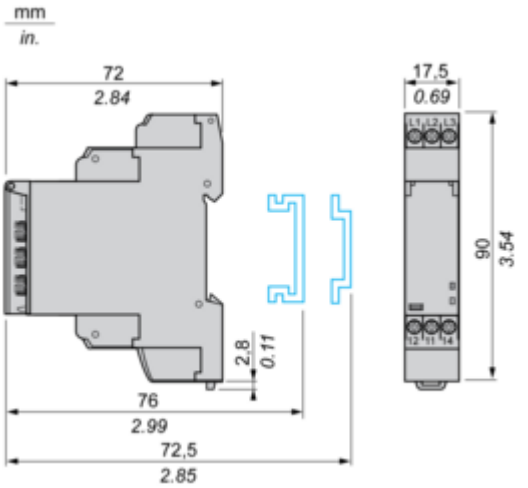
## Use Again

### Ompakning og genfremstilling

| | |
|---|---|
| Cirkularitetsprofil | Oplysninger om udtjent udstyr |
| Returnering | No |

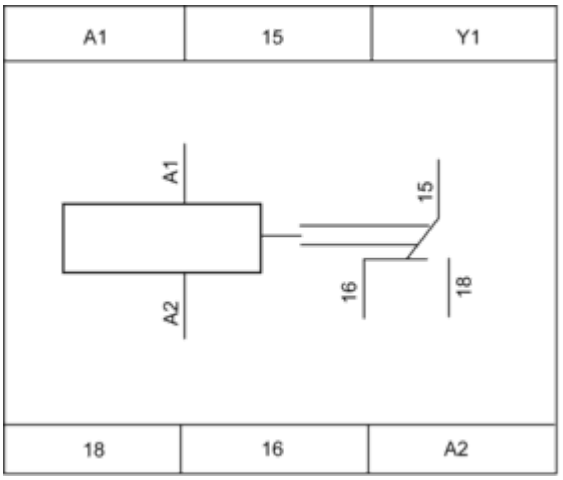
Dimensions Drawings

**Width 17.5 mm**

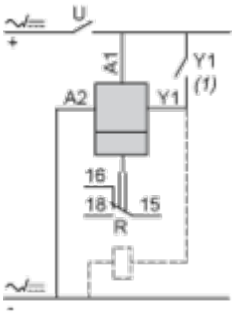


Connections and Schema

**Internal Wiring Diagram**



## Wiring Diagram




1) Contact Y1:

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

Technical Description

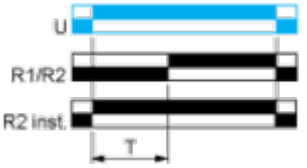
## Function A : Power on Delay Relay

### 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



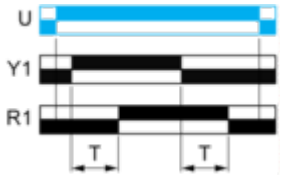

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

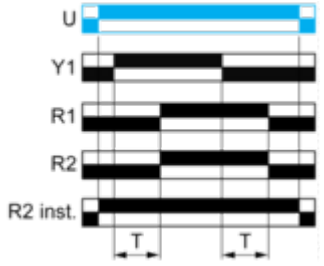
### Description

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

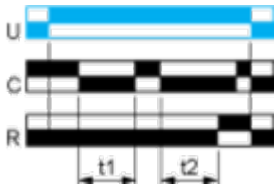


## Function At : Power on Delay Relay (Summation) with Control Signal

### 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 +...

## 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.

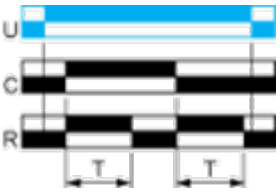
### Function: 1 Output

## 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

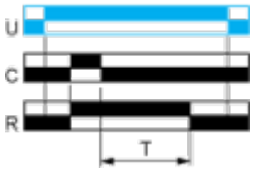


## Function C : Off-Delay Relay with Control Signal

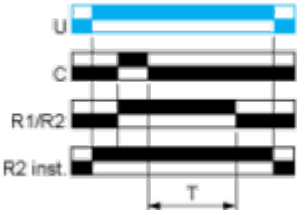
### Description

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



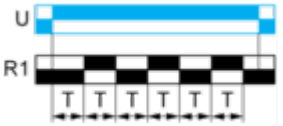

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

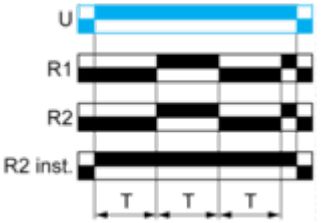
### Description

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 indefintely 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

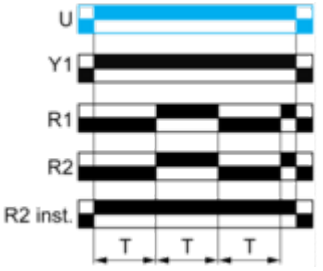



### Function: 2 Outputs




### 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.)

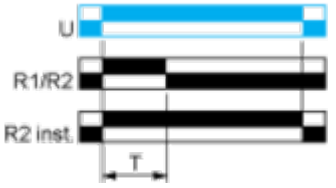
## Function H : Interval Relay

### 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



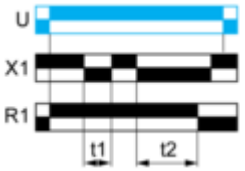

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

## Function Ht: Interval Relay & With Pause / Summation Control

### Description

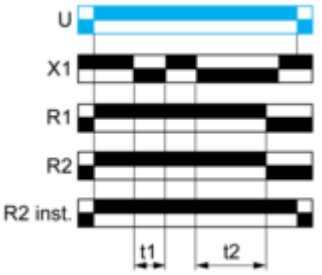
On energisation of power supply, output(s) R close(s) and timing period T starts.
The timing can be interrupted / paused each time X1 energizes.
When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state Reenergization of X1 will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



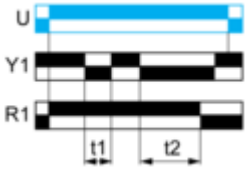

T = t1 + t2 +...

### Function: 2 Outputs



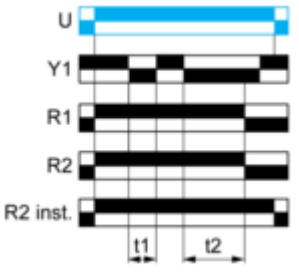

T = t1 + t2 +...

### Function: 1 Output with Retrigger / Restart Control




T = t1 + t2 +...

### Function: 2 Outputs with Retrigger / Restart Control




T = t1 + t2 +...

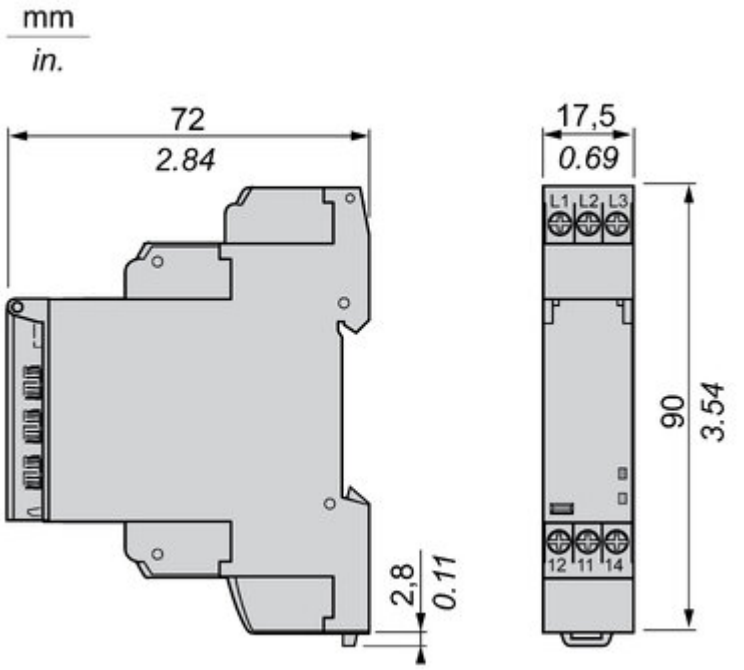
## Legend

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 |

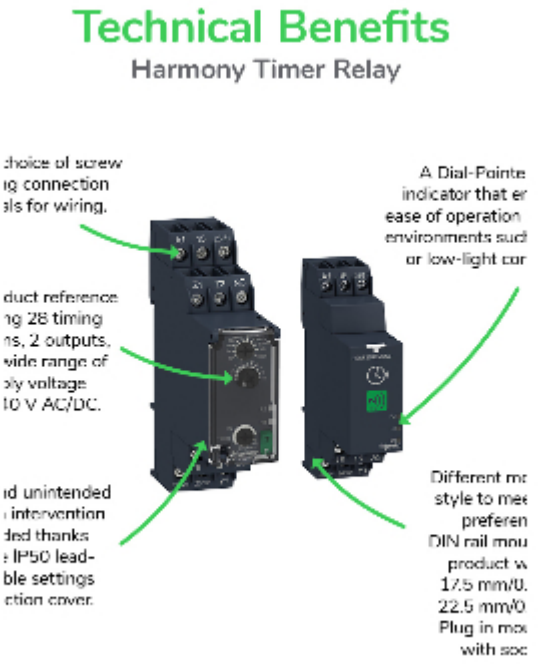
Technical Illustration

**Dimensions**



Offer Marketing Illustration

**Product benefits / Features**

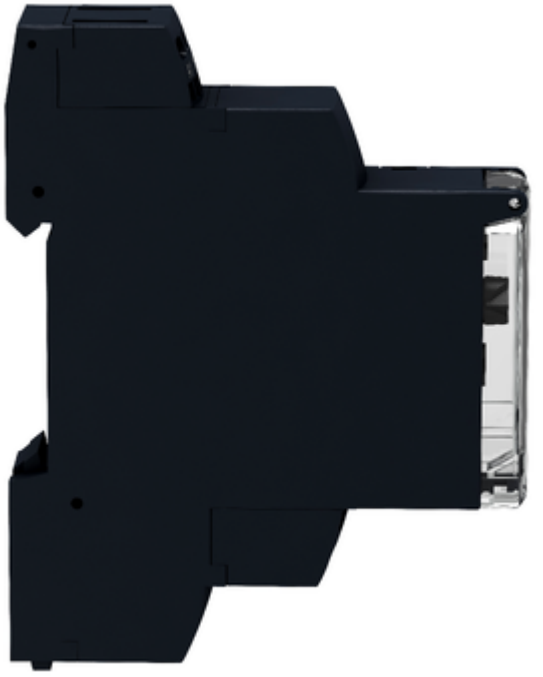


Offer Marketing Illustration

**Product benefits / Features**

Image of product / Alternate images

**Alternative**




18
16
A2


A1 15 Y1

Image of product in real life situation