

# RE17RLMU

Modular timing relay, 8 A, 1 CO, 1 s..100 h, asymmetrical flashing, 24...240 V AC



## Main

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Range of product          | Zelio Time                                                                              |
| Product or component type | Modular timing relay                                                                    |
| Discrete output type      | Relay                                                                                   |
| Maximum Width             | 0.69 in (17.5 mm)                                                                       |
| Device short name         | RE17R                                                                                   |
| Time delay type           | Li<br>L                                                                                 |
| Time delay range          | 1...10 h<br>1...10 s<br>0.1...1 s<br>6...60 min<br>1...10 min<br>10...100 h<br>6...60 s |
| Nominal output current    | 8 A                                                                                     |

## Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contacts type and composition  | 1 C/O                                                                                                                                                                                                                                                                                                                                                                                    |
| Contacts material              | Cadmium free                                                                                                                                                                                                                                                                                                                                                                             |
| Height                         | 3.54 in (90 mm)                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                          | 2.83 in (72 mm)                                                                                                                                                                                                                                                                                                                                                                          |
| Control type                   | Selector switch front panel                                                                                                                                                                                                                                                                                                                                                              |
| [Us] rated supply voltage      | 24...240 V AC 50/60 Hz<br>24 V DC                                                                                                                                                                                                                                                                                                                                                        |
| Voltage range                  | 0.85...1.1 Us                                                                                                                                                                                                                                                                                                                                                                            |
| Supply frequency               | 50...60 Hz +/- 5 %                                                                                                                                                                                                                                                                                                                                                                       |
| Release of input voltage       | 10 V                                                                                                                                                                                                                                                                                                                                                                                     |
| Connections - terminals        | Screw terminals, 1 x 0.5...1 x 3.3 mm <sup>2</sup> AWG 20...AWG 12) solid without cable end<br>Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> AWG 20...AWG 14) solid without cable end<br>Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> AWG 24...AWG 14) flexible with cable end<br>Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> AWG 24...AWG 16) flexible with cable end |
| Tightening torque              | 5.31...8.85 lbf.in (0.6...1 N.m) IEC 60947-1                                                                                                                                                                                                                                                                                                                                             |
| Housing material               | Self-extinguishing                                                                                                                                                                                                                                                                                                                                                                       |
| Repeat accuracy                | +/- 0.5 % IEC 61812-1                                                                                                                                                                                                                                                                                                                                                                    |
| Temperature drift              | +/- 0.05 %/°C                                                                                                                                                                                                                                                                                                                                                                            |
| Voltage drift                  | +/- 0.2 %/V                                                                                                                                                                                                                                                                                                                                                                              |
| Setting accuracy of time delay | +/- 10 % of full scale 25 °C IEC 61812-1                                                                                                                                                                                                                                                                                                                                                 |
| Control signal pulse width     | 100 ms with load in parallel typical<br>30 ms typical                                                                                                                                                                                                                                                                                                                                    |
| Insulation resistance          | 100 MOhm 500 V DC IEC 60664-1                                                                                                                                                                                                                                                                                                                                                            |
| Reset time                     | 120 ms on de-energisation typical                                                                                                                                                                                                                                                                                                                                                        |
| On-load factor                 | 100 %                                                                                                                                                                                                                                                                                                                                                                                    |
| Power consumption in VA        | 0...32 VA 240 V AC                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum power consumption in W | 0.6 W 24 V DC                                                                                                                                                                                                                                                                                                                                                                            |
| Minimum switching current      | 10 mA 5 V DC                                                                                                                                                                                                                                                                                                                                                                             |
| Maximum switching current      | 8 A AC/DC                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum switching voltage      | 250 V AC                                                                                                                                                                                                                                                                                                                                                                                 |
| Breaking capacity              | 2000 VA                                                                                                                                                                                                                                                                                                                                                                                  |

|                                        |                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Operating frequency                    | 10 Hz                                                                                                                              |
| Electrical durability                  | 100000 cycles resistive 8 A 250 V AC                                                                                               |
| Mechanical durability                  | 10000000 cycles                                                                                                                    |
| Dielectric strength                    | 2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1                                                                                             |
| [Uimp] rated impulse withstand voltage | 5 kV 1.2/50 µs                                                                                                                     |
| Power on delay                         | 100 ms                                                                                                                             |
| Marking                                | CE                                                                                                                                 |
| Creepage distance                      | 4 kV/3 IEC 60664-1                                                                                                                 |
| Safety reliability data                | MTTFd = 296.8 years<br>B10d = 270000                                                                                               |
| Mounting position                      | Any position in relation to normal vertical mounting plane                                                                         |
| Mounting support                       | 35 mm DIN rail EN/IEC 60715                                                                                                        |
| Local signalling                       | LED indicator on steady: relay energised, no timing in progress<br>LED indicator 80 % ON and 20 % OFF flashing: timing in progress |
| Net Weight                             | 0.15 lb(US) (0.07 kg)                                                                                                              |
| Time delay type                        | L, Li                                                                                                                              |
| Functionality                          | Asymmetrical flashing timer                                                                                                        |
| Compatibility code                     | RE17                                                                                                                               |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunity to microbreaks               | 20 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Standards                             | 2006/95/EC<br>EN 61000-6-2<br>EN 61000-6-4<br>2004/108/EC<br>IEC 61812-1<br>EN 61000-6-3<br>EN 61000-6-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product certifications                | GL<br>CULus<br>CSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ambient air temperature for storage   | -22...140 °F (-30...60 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| IP degree of protection               | IP20 IEC 60529 terminal block)<br>IP40 IEC 60529 housing)<br>IP50 IEC 60529 front panel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Vibration resistance                  | 20 m/s² 10...150 Hz)IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Shock resistance                      | 15 gn 11 ms IEC 60068-2-27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Relative humidity                     | 93 % without condensation IEC 60068-2-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electromagnetic compatibility         | Electrostatic discharge immunity test 6 kV in contact) level 3 IEC 61000-4-2<br>Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2<br>Susceptibility to electromagnetic fields 10 V/m 80 MHz to 1 GHz) level 3 IEC 61000-4-3<br>Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4<br>Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4<br>1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5<br>1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5<br>Conducted RF disturbances 10 V 0.15...80 MHz) level 3 IEC 61000-4-6<br>Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11<br>Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11<br>Conducted and radiated emissionsclass B EN 55022 |

## Ordering and shipping details

|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22370 - RE, RM MISC TIMERS & COUNTERS |
| Discount Schedule     | CP2                                   |
| GTIN                  | 00785901376361                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 0.17 lb(US) (0.08 kg)                 |
| Returnability         | Yes                                   |
| Country of origin     | ID                                    |

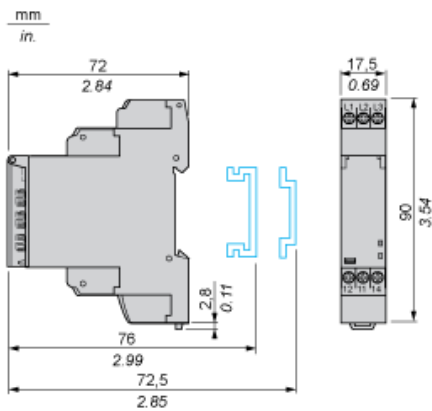
## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.10 in (2.8 cm)       |
| Package 1 width              | 3.07 in (7.8 cm)       |
| Package 1 Length             | 3.78 in (9.6 cm)       |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 40                     |
| Package 2 Weight             | 8.32 lb(US) (3.772 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 cm)       |

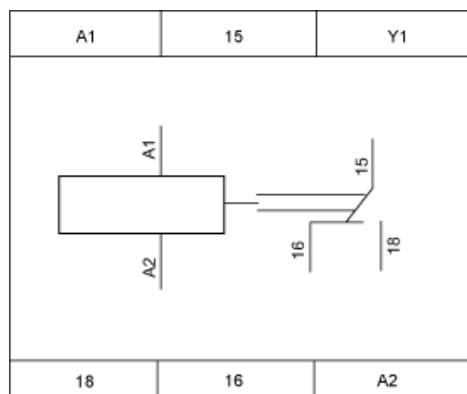
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                       |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                                                     |

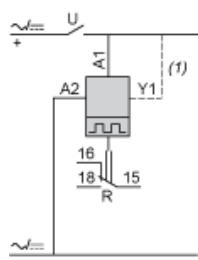
Width 17.5 mm



## Internal Wiring Diagram



## Wiring Diagram



1 Link A1-Y1 for function L only

Function L : Asymmetrical Flasher Relay (Starting Pulse Off)

Description

Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.

Function: 1 Output



Function Li : Asymmetrical Flasher Relay (Starting Pulse On)

Description

Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.

Function: 1 Output



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