

Product availability: Stock - Normally stocked in distribution facility



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Zelio Time   |
| Product or component type     | Electronic timing relay  |
| Electrical connection         | 11 pin plug-in sub-base  |
| Discrete output type          | Relay  |
| Contacts type and composition | 2 C/O timed contacts AgNi (cadmium free)   |
| Component name                | RE48A  |
| Time delay type               | A<br>Di<br>B<br>C  |
| Time delay range              | 0.5...30 s<br>0.2...12 h<br>5...300 s<br>2...120 min<br>5...300 min<br>5...300 h<br>0.05...3 s<br>0.2...12 min<br>2...120 h<br>0.2...12 s<br>2...120 s<br>0.5...30 h<br>0.02...1.2 s<br>0.5...30 min |
| [Us] rated supply voltage     | 24...240 V AC/DC 50/60 Hz  |
| Voltage range                 | 0.85...1.1 Us AC<br>0.9...1.1 Us DC  |
| Line Rated Current            | 5 A  |

## Complementary

|                                |   |
|--------------------------------|---|
| Product front plate size       | 48 x 48 mm  |
| Control type                   | Selector switch on front panel  |
| Housing material               | Self-extinguishing  |
| Repeat accuracy                | +/- 0.2 % of the maximum setting value conforming to IEC 61812-1  |
| Temperature drift              | +/- 0.02 %/°C of the maximum setting value conforming to IEC 61812-1  |
| Voltage drift                  | +/- 0.2 %/V of the maximum setting value at 48...240 V<br>+/- 1 %/V of the maximum setting value at 24...48 V |
| Setting accuracy of time delay | +/- 5 % of full scale at 25 °C conforming to IEC 61812-1  |
| Minimum pulse duration         | 20 ms   |
| Reset time                     | >= 25 ms on de-energisation   |
| Pick up duration               | 55 ms   |
| On-load factor                 | 100 %   |
| Power consumption in VA        | 1.1 VA at 24 V<br>4.8 VA at 240 V   |
| Power consumption in W         | 1.7 W at 240 V<br>0.5 W at 24 V   |
| Breaking capacity              | 1250 VA   |
| Minimum switching current      | 100 mA  |
| Maximum switching current      | 5 A   |
| Maximum switching voltage      | 250 V AC/DC   |

|                       |  |
|-----------------------|--|
| Electrical durability | 100000 cycles  |
| Mechanical durability | 30000000 cycles  |
| Output voltage        | 240 V at 5 A AC-12<br>30 V at 2 A DC-13<br>240 V at 1.5 A AC-15  |
| Marking               | CE   |
| Surge withstand       | 1 kV differential mode conforming to IEC 61000-4-5 level 3<br>2 kV common mode conforming to IEC 61000-4-5 level 3   |
| Mounting support      | Panel mounted: system supplied with the product<br>Base mounted: socket  |
| Local signalling      | 1 LED yellow output relay state<br>LED indicator green flashing: relay energised timing in progress<br>LED indicator green on steady: relay energised, no timing in progress |
| Product weight        | 0.31 lb(US) (0.14 kg)  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Humidity drift                        | +/- 0.05 %/%RH of the maximum setting value conforming to IEC 61812-1   |
| Immunity to microbreaks               | < 10 ms   |
| Dielectric strength                   | 1 kV at 1 mA/1 minute conforming to IEC 61812-1   |
| Protection against electric shocks    | 4 kV class III conforming to IEC 60664-1<br>4 kV class III conforming to IEC 61812-1  |
| Standards                             | 89/336/EEC<br>IEC 60669-2-3<br>EN 50081-1/2<br>73/23/EEC<br>93/68/EEC<br>IEC 61812-1<br>EN 50082-1/2  |
| Product certifications                | UL<br>CSA<br>GL<br>CULus<br>C-Tick  |
| Ambient air temperature for storage   | -40...158 °F (-40...70 °C)  |
| Ambient air temperature for operation | -4...122 °F (-20...50 °C)   |
| IP degree of protection               | IP40 housing conforming to IEC 60529<br>IP50 front face conforming to IEC 60529   |
| Vibration resistance                  | 0.35 mm 10...55 Hz conforming to IEC 60068-2-6  |
| Relative humidity                     | 93 % without condensation conforming to IEC 60068-2-3   |
| Resistance to electrostatic discharge | 6 kV at in contact conforming to EN/IEC 61000-4-2 level 3<br>8 kV at in air conforming to EN/IEC 61000-4-2 level 3                                |
| Resistance to electromagnetic fields  | 10 V/m 26 MHz to 1 GHz conforming to IEC 61000-4-3 level 3  |
| Resistance to fast transients         | 2 kV capacitive connecting clip conforming to EN/IEC 61000-4-4 level 4<br>4 kV direct conforming to EN/IEC 61000-4-4 level 4                      |
| Immunity to radioelectric fields      | 10 V at 0.15...80 MHz conforming to EN/IEC 61000-4-6 level 3  |
| Immunity to voltage dips              | 30 % for 10 ms conforming to EN/IEC 61000-4-11<br>60 % for 100 ms conforming to EN/IEC 61000-4-11<br>95 % for 5 s conforming to EN/IEC 61000-4-11 |
| Disturbance radiated/conducted        | Class B at 0.15...30 MHz conforming to EN 55022 (EN 55011 group 1)  |

## Ordering and shipping details

|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22370 - RE, RM MISC TIMERS & COUNTERS |
| Discount Schedule     | CP2                                   |
| GTIN                  | 00785901834922                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 0.28000000000000003                   |
| Returnability         | Y                                     |
| Country of origin     | ID                                    |

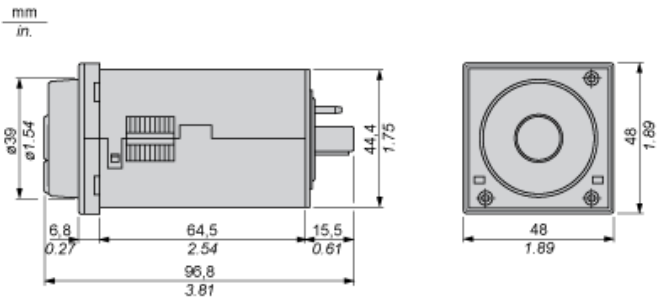
## Offer Sustainability

|                            |  |
|----------------------------|--|
| California proposition 65  | WARNING: This product can expose you to chemicals including:   |
| - - - - - Substance 1      | Nickel compounds, which is known to the State of California to cause cancer, and   |
| - - - - - Substance 2      | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| - - - - - More information | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

## Contractual warranty

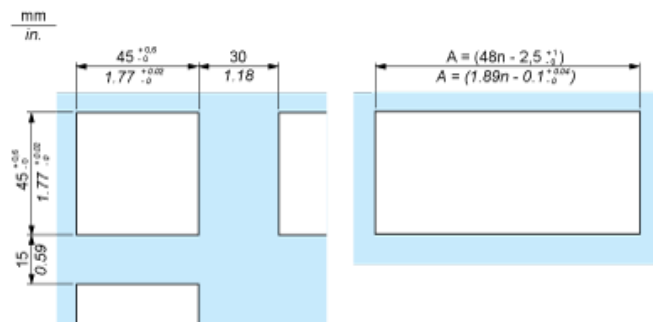
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Width 48 mm



## Panel Cut-Out and Mounting

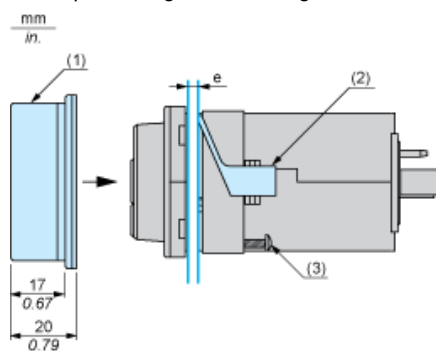
### Panel Cut-Out



n Number of devices mounted side-by-side

### Mounting

Cover positioning and mounting

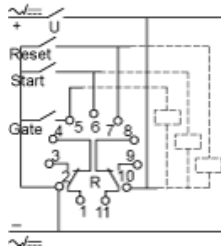


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

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## Wiring Diagram

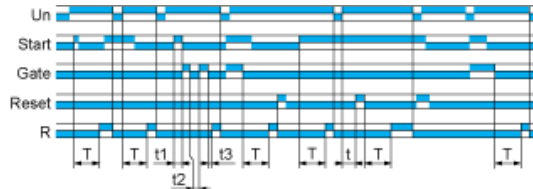
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## Function A : Power on Delay Relay

### Description

The timing period T begins on energisation. After timing, the output R closes.



$$T = t1 + t2 + t3$$

## 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.

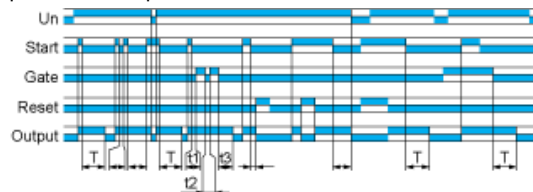


$$T = t1 + t2 + t3$$

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

### Description

After power-up and closing of the control contact, the output closes. When control contact re-opens, timing T starts. At the end of the timing period, the output reverts to their initial state.

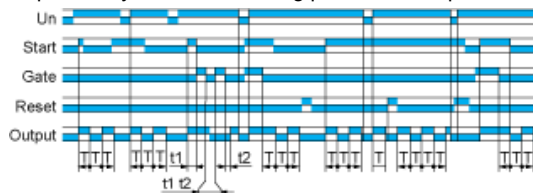


$$T = t1 + t2 + t3$$


## Function Di : Symmetrical Flasher Relay (Starting Pulse On)

### Description

Repetitive cycle with two timing periods T of equal duration, with output changing state at the end of each timing period T.



## Legend

 Relay de-energised

 Relay energised

 Output open

 Output closed

C Control contact

G Gate

R Relay or solid state output

R1/ 2 timed outputs

R2

R2 The second output is instantaneous if the right position is selected

inst.

T Timing period

Ta Adjustable On-delay

-

Tr Adjustable Off-delay

-

U Supply



# Mouser Electronics

Authorized Distributor

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