



## Main

|                           |                      |
|---------------------------|----------------------|
| Range of product          | Zelio Time           |
| Product or component type | Modular timing relay |
| Discrete output type      | Relay                |
| Device short name         | RE22                 |
| Nominal output current    | 5 A                  |

## Complementary

|                                |  |
|--------------------------------|--|
| Contacts type and composition  | 2 C/O timed contact, cadmium free  |
| Time delay type                | K  |
| Time delay range               | 0.05...1 s<br>0.3...3 s<br>1...10 min<br>1...10 s<br>10...100 s<br>3...30 s<br>30...300 s  |
| Control type                   | Rotary knob<br>External potentiometer  |
| [Us] rated supply voltage      | 24...240 V AC/DC at 50/60 Hz   |
| Input voltage                  | $\leq 2.4$ V   |
| Voltage range                  | 0.85...1.1 Us  |
| Supply frequency               | 50...60 Hz (+/- 5 %)   |
| Connections - terminals        | Screw terminals : 1 x 0.5...1 x 3.3 mm <sup>2</sup> , AWG 20...AWG 12 solid cable without cable end<br>Screw terminals : 2 x 0.5...2 x 2.5 mm <sup>2</sup> , AWG 20...AWG 14 solid cable without cable end<br>Screw terminals : 1 x 0.2...1 x 2.5 mm <sup>2</sup> , AWG 24...AWG 14 flexible cable with cable end<br>Screw terminals : 2 x 0.2...2 x 1.5 mm <sup>2</sup> , AWG 24...AWG 16 flexible cable with cable end |
| Tightening torque              | 5.31...8.85 lbf.in (0.6...1 N.m) conforming to IEC 60947-1   |
| Housing material               | Self-extinguishing   |
| Repeat accuracy                | +/- 0.5 % conforming to IEC 61812-1  |
| Temperature drift              | +/- 0.05 %/°C  |
| Voltage drift                  | +/- 0.2 %/V  |
| Setting accuracy of time delay | +/- 10 % of full scale at 25 °C conforming to IEC 61812-1  |
| Insulation resistance          | 100 MOhm at 500 V DC conforming to IEC 60664-1   |
| Reset time                     | 100 ms (on de-energisation)  |
| Immunity to microbreaks        | $\leq 10$ ms   |
| Power consumption in VA        | 3 VA at 240 V AC   |
| Power consumption in W         | 2 W at 240 V DC  |
| Switching capacity in VA       | 1250 VA  |
| Minimum switching current      | 10 mA 5 V DC   |
| Maximum switching current      | 5 A  |
| Maximum switching voltage      | 250 V AC   |
| Electrical durability          | 100000 cycles for 2 A at 24 V DC-1<br>100000 cycles for 5 A at 250 V AC-1  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|  |  |
|--|--|
| Mechanical durability                  | 10000000 cycles  |
| [Uimp] rated impulse withstand voltage | 5 kV 1.2...50 µs conforming to IEC 60664-1   |
| Delay response                         | < 200 ms   |
| Creepage distance                      | 4 kV/3 conforming to IEC 60664-1   |
| Overvoltage category                   | III conforming to IEC 60664-1  |
| Safety reliability data                | MTTFd = 171.2 years<br>B10d = 160000   |
| Mounting position                      | Any position   |
| Mounting support                       | 35 mm DIN rail conforming to EN/IEC 60715  |
| Status LED                             | Green LED backlight (steady) dial pointer indication<br>Yellow LED (steady) output relay energised<br>Yellow LED (steady) power ON |
| Width                                  | 0.89 in (22.5 mm)  |
| Product weight                         | 0.22 lb(US) (0.1 kg)   |

## Environment

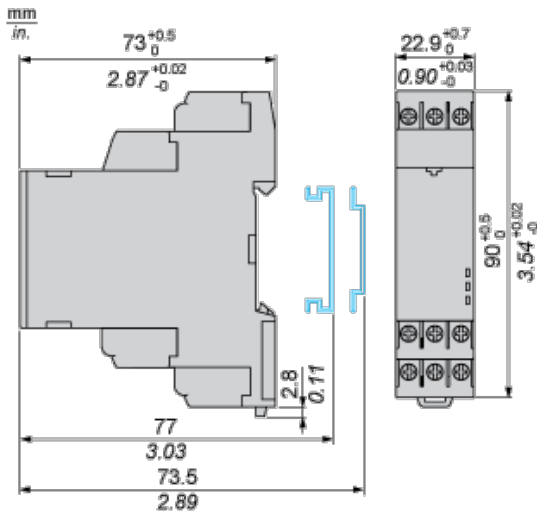
|                                       |  |
|---------------------------------------|--|
| dielectric strength                   | 2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation conforming to IEC 61812-1  |
| standards                             | IEC 61812-1<br>UL 508  |
| directives                            | 2004/108/EC - electromagnetic compatibility<br>2006/95/EC - low voltage directive  |
| product certifications                | CCC<br>CE<br>CSA<br>GL<br>UL<br>RCM<br>EAC<br>China RoHS   |
| ambient air temperature for operation | -4...140 °F (-20...60 °C)  |
| ambient air temperature for storage   | -40...158 °F (-40...70 °C)   |
| IP degree of protection               | IP20(terminals) conforming to IEC 60529<br>IP40 (housing) conforming to IEC 60529<br>IP50 (front panel) conforming to IEC 60529  |
| pollution degree                      | 3 conforming to IEC 60664-1  |
| vibration resistance                  | 20 m/s <sup>2</sup> (f = 10...150 Hz) conforming to IEC 60068-2-6  |
| shock resistance                      | 15 gn (not operating) (duration = 11 ms) conforming to IEC 60068-2-27<br>5 gn (in operation) (duration = 11 ms) conforming to IEC 60068-2-27   |
| relative humidity                     | 95 % at 25...55 °C   |
| electromagnetic compatibility         | Fast transients immunity test (test level: 1 kV, level 3 - capacitive connecting clip) conforming to IEC 61000-4-4<br>Surge immunity test (test level: 1 kV, level 3 - differential mode) conforming to IEC 61000-4-5<br>Surge immunity test (test level: 2 kV, level 3 - common mode) conforming to IEC 61000-4-5<br>Electrostatic discharge (test level: 6 kV, level 3 - contact discharge) conforming to IEC 61000-4-2<br>Electrostatic discharge (test level: 8 kV, level 3 - air discharge) conforming to IEC 61000-4-2<br>Radiated radio-frequency electromagnetic field immunity test (test level: 10 V/m, level 3 - 80 MHz...1 GHz) conforming to IEC 61000-4-3<br>Conducted RF disturbances (test level: 10 V, level 3 - 0.15...80 MHz) conforming to IEC 61000-4-6<br>Fast transient bursts (test level: 2 kV, level 3 - direct contact) conforming to IEC 61000-4-4<br>Immunity to microbreaks and voltage drops (test level: 30 % - 500 ms) conforming to IEC 61000-4-11<br>Immunity to microbreaks and voltage drops (test level: 100 % - 20 ms) conforming to IEC 61000-4-11 |

## Offer Sustainability

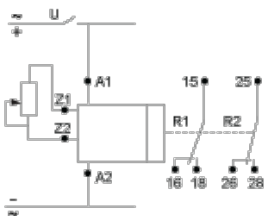
|   |   |
|---|---|
| Green Premium product   | Green Premium product   |
| Compliant - since 1650 - Schneider Electric declaration of conformity | Compliant - since 1650 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold                     | Reference not containing SVHC above the threshold                     |

|  |  |
|--|--|
| Available  | Available  |
| Available  | Available  |
| WARNING: This product can expose you to chemicals including:   | 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. | 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>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

## Dimensions



## Wiring Diagram

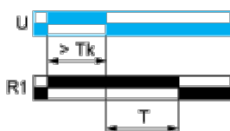


## Function K: Delay On De-energization without Auxillary Supply

### Description

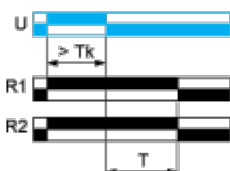
On energisation of power supply, the output(s) R close(s). On de-energisation of power supply, timing period T starts and at the end of this period, the output(s) R revert(s) to its/their initial state. The energization of power supply  $> T_k$  is necessary to sustain the timing period T.

### Function: 1 Output



$T_k > 1s$


### Function: 2 Outputs



$T_k > 80ms$

### Legend

 Relay de-energised

 Relay energised

 Output open

 Output closed

**U** - Supply

**T** - Timing period

**R1/R22** timed outputs

-

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А