

## Time relay Economic, 10 functions, universal power supply

**ORNO**

Marka: Orno | Symbol: OR-PRE-472/UNI | Ean: 5908254849541



### PRODUCT DESCRIPTION

The ECO multifunctional time relay is a modular device used in ventilation, heating, signalling or lighting systems in both domestic and industrial installations. It contributes to energy savings and increases comfort while using electrical appliances.

The relay is supplied with 12-240V AC/DC at a frequency of 50/60Hz. It has one switching contact with a rated current of 16A for 250V AC and 24V DC. The maximum load power is 4000VA.

The device has as many as 10 functions:

- ON delay (E)
- ON for the set interval (Wu),
- Symmetrical cyclical operation pause first (Bp),
- Symmetrical cyclical operation pulse first (Bi),
- OFF delay with the control contact S (R),
- Single shot for the set interval triggered by closing of the control contact S (Ws),
- ON for the set interval triggered with the control contact S (Wa),
- ON and OFF delay with the control contact S (Esa),
- Cyclical operation controlled with closing of the control contact S (B),
- Generation of the 0,5 s pulse after the interval T (T).

The relay has also the basic ON/OFF function - it may be permanently switched on or off.

It is designed to be mounted on a 35 mm DIN rail in any position with the help of two catches - top and bottom. The unit has terminals for wires up to 2.5 mm<sup>2</sup>.

The compact dimensions of 65x18x90 mm and the width of one module ensure that the installation is convenient and space in the switchboard is saved.

The product complies with EN/IEC 60529 standards.

## TECHNICAL DATA

### General information:

|                                                   |                  |
|---------------------------------------------------|------------------|
| <b>Function:</b>                                  | Wielofunkcyjność |
| <b>Mounting method:</b>                           | Szyna DIN        |
| <b>Width in number of modular spacings:</b>       | 1                |
| <b>Number of changeover switches:</b>             | 1                |
| <b>Control voltage 1 [V]:</b>                     | 12-240           |
| <b>Type of control voltage 1:</b>                 | AC/DC            |
| <b>Frequency control voltage 1 [Hz]:</b>          | 50/60            |
| <b>Nominal switching current at 250 V AC [A]:</b> | 16               |
| <b>Rated load 24 V DC [V]:</b>                    | 16               |
| <b>Maximum power [VA]:</b>                        | 4000             |
| <b>Contact resistance:</b>                        | ≤ 100 mΩ         |

|                                    |                         |
|------------------------------------|-------------------------|
| Maximum connection frequency:      | 600 cykli/h             |
| Working voltage range:             | 0,9 – 1,1 Un            |
| Electrical life:                   | > 0,5 x 10 <sup>5</sup> |
| Terminal wires [mm <sup>2</sup> ]: | 2.5                     |
| Number and type of contacts:       | 1P                      |
| Type material:                     | AgSnO <sub>2</sub>      |
| Relative humidity [%]:             | do 85                   |
| Impact resistance [g]:             | 15                      |
| Vibration resistance:              | 0,35 mm DA              |
| Overvoltage category:              | III                     |
| Enclosure flammability class UL94: | V0                      |
| Storage Temperature [°C]:          | -40°C do +70°C          |
| Operating Temperature [°C]:        | -20~+50                 |
| Height [mm]:                       | 65                      |
| Width [mm]:                        | 17.8                    |
| Depth [mm]:                        | 90                      |
| Standards:                         | EN/IEC 60529            |
| Ingress protection:                | IP20                    |
| Number of programmes:              | 10                      |



