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Mod. **TPLU**

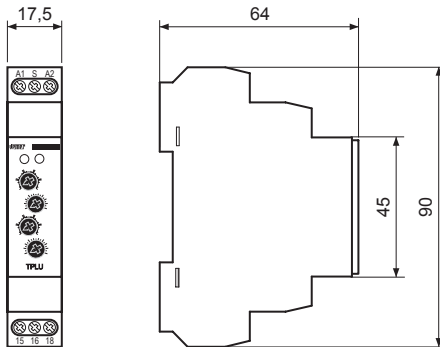
User Manual

TPLU ASYMMETRIC CYCLER

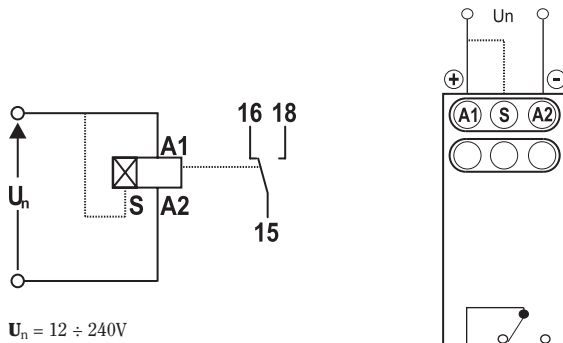
Read all instructions carefully

- The multifunction time relay **TPLU** is a device standardised in 1-module DIN container, designed to operate in environments with normal pollution level. It can be used in the cyclic control of the load such as regular room ventilation, light control, circulating pumps, ecc..

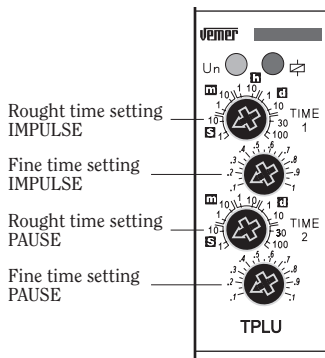
Dimensions



Wiring diagrams

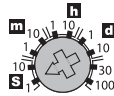


Operating diagrams

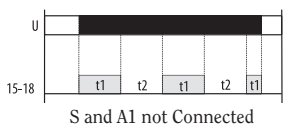


Time ranges

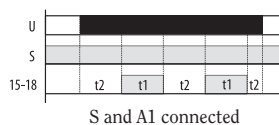
0,1-1 s
1-10 s
0,1-1 min
1-10 min
0,1-1 h
1-10 h
0,1-1 day
1-10 days
3-30 days
10-100 days



Cycles beginning with pulse



Cycler beginning with pause



SAFETY WARNINGS

During the installation and operation of the instrument, proceed in accordance with the instructions below:

- The instrument should be installed by a competent operator following the installation diagrams carefully
- The instrument should be installed in a panel from which no access can be gained to the terminals after installation
- Do not power or connect the instrument if any part of it is damaged
- The electrical system of the building in which the instruments is to be installed should have a switch and a protective device against over-currents
- The instrument is designed for installations with over-voltage category III and pollution level 2, in accordance with the EN 61010-1 standard.

TECHNICAL SPECIFICATIONS

- Power supply: AC/DC 12 ÷ 240V (AC 50÷60Hz) -15% ÷ +10%
- Consumption: AC 0,7 ÷ 3VA/DC 1,5W
- Supply indication: green LED
- Time range with potentiometer: 0,1 sec ÷ 100 days
- Output
 - Number of contacts: 1 changeover
 - Output indication: red LED multifunction
 - Contact capacity: 16A 250V AC1 / 24V DC
 - Inrush current: 30A / < 3 second
 - Minimum breaking capacity DC: 500mW
 - Breaking capacity: 4000VA / AC1, 384W / DC
 - Mechanical life: 3x10⁷
 - Electrical life: 0,7x10⁵
- Operating temperature: -20°C ÷ +55°C
- Storage temperature: -30°C ÷ +70°C
- Protection degree: IP40 from front panel

OPERATION

Operation conditions

While installing this device it is necessary to consider temperature rate of ambient devices so the operation temperature stated in technical parameters is kept. It is necessary to ensure air circulation so the operation temperature is not exceeded in any case. It is necessary to avoid placing devices close to sources of electromagnetic disturbances to ensure their correct function. It is necessary to pay attention while connecting products to the circuit with appliances that create electromagnetic disturbances (conductors, motors), or power cables close to them. It is recommended to have the connection cables of a product (supply and operating inputs) as short as possible and have them led separately into power conductors.

Handling and use

Use a screwdriver with an approximate width 2mm for installation and setting. Do not use brute force to screw input terminals (maximally 0,5 N/m).

Do not put exceeded pressure on to the holding parts of terminals so the inner construction of the device is not damaged.

Protect the device against falls and excessive vibrations

Do not overload relay output contacts, mainly while using loads of another category than AC1

If contacts of relay melted while switching big loads, it is necessary to use an inserted contactor or power relay rated for required load in the current installation.

For a correct setting of the relay, observe the following operations:

- setting the Rough time setting-**IMPULSE** (relay ON) with its potentiometer (see time ranges in the box "OPERATING DIAGRAMS")
- setting the Fine time setting-**IMPULSE** with its potentiometer (between 10% and 100% of the Rough time setting)
- setting the Rough time setting-**PAUSE** (relay OFF) with its potentiometer (see time ranges in the box "OPERATING DIAGRAMS")
- setting the Fine time setting-**PAUSE** with its potentiometer (between 10% and 100% of the Rough time setting)

REFERENCE STANDARDS

Conformity to the EU directives:

2006/95/EC (Low Voltage)

89/336/EEC modified by 92/31/EEC and 93/68/EEC (EMC)

is declared with reference to the following harmonised standards:

Safety: EN 61010-1

Electromagnetic compatibility: EN 61000-6-2, EN 61000-6-4