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TIME RELAY
with backup after power failure

PCU-504
UNI

WARRANTY. The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a complaint can be found on the website: www.fif.com.pl/reklamacje



Do not dispose of this device to a garbage bin with other unsorted waste! In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the event of purchasing new equipment (as per the old for new rule, regardless of brand). Electro-waste thrown in the garbage bin or abandoned in the bosom of nature pose a threat to the environment and human health.

Purpose

The time relay is used for time controlling in industrial and home automation systems (e.g. ventilation, heating, lighting, signaling, etc.).

The relay can maintain power for up to 10 minutes and switch the contact position after power failure.

Functioning

Features

A - MAINTAINING

Powering up of the relay is followed by the closing of the contacts (position 5-4/8-7). After power failure, the contact position is maintained for a set period of time. When the specified time is up, the contacts open (position 5-3/8-9).

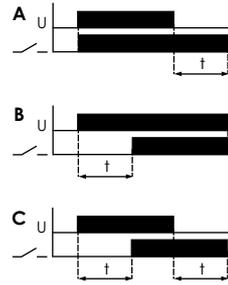
B - DELAYED ACTIVATION

When the power voltage is switched on, contacts remain open (position 5-6/8-9) for the preset time. After that time contacts close (position 5-4/8-7) until power is off.

C - DELAYED ACTIVATION WITH MAINTAINING

When the power voltage is switched on, contacts remain open (position 5-6/8-9) for the preset time. After that time contacts close (position 5-4/8-7). After de-powering contact remain closed for a preset time. When the specified time is up, the contacts open (position 5-6/8-9).

Diagrams



Setting functions and operating time

With the P1 dial set the number of seconds. With the P2 dial set the number of tens of seconds. Multiply the resulting number by a factor adjusted with P3 dial. To select function, use the P3 dial to select the multiplier in the range of A, B or C designations. Example: P1=5, P2=4, P3=A10 (45 s x 10 = 450 s) -> function A (maintain) for the 7.5 minutes.

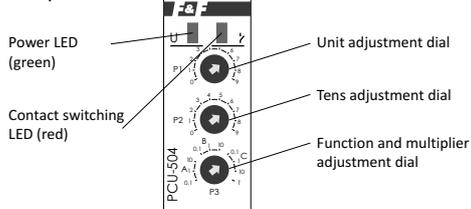
Position T of the P3 dial - service function: test the maximum time for function A and C.

Note!

*When the power is on, the system does not respond to changes in the setting of time and function.

*The new settings of functions and time are operation after power restart.

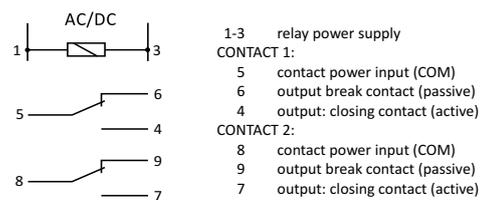
Front panel



LED indication

The power supply is indicated by a green LED U. Relay contacts closing (position 5-4 and 8-7) is indicated by a red LED. When the relay power is off, both LEDs go out and do not indicate conditions even when the power is maintained in A or B operation mode.

IN/OUT description



Installation

1. Turn off the power.
2. Mount the relay on rail in the connection box.
3. Connect the power supply wires to terminals 1-3 (any polarity).
4. Circuit of the activated receiver connect in series to terminals 5-4/8-7.
5. Set the function and work time with the corresponding dials.

Specification

power supply	12÷264V AC/DC
load current AC-1	2×4A
contact	2 C/O separated
time setting	
function A and C	0.1s÷10min
function B	0.5s÷16min30s
activation delay - averse functions	<50ms
power indicator	green LED
contacts state signalling	red LED
power consumption	0,56W
working temperature	-25÷50°C
terminal	2,5mm ² screw terminals
tightening torque	0.4Nm
dimensions	1 module (18mm)
mounting	on TH-35rail
ingress protection	IP20