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PCU-507

Time relay,
2-functions



Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

The PCU-507 time relay is used for time control in industrial and home automation systems (such as: ventilation, heating, lighting, signaling, etc.).



Setting of two independent times: operating time "t1" and break time "t2".

Functioning

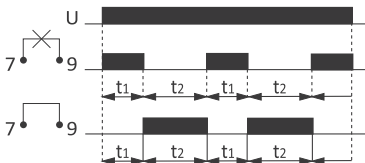
Delayed switch-off – cyclic

Until the relay is switched on, the contacts remain in positions 2-3 and 11-10. After the supply voltage is applied, the contacts are switched to positions 2-1 and 11-12 for time "t1".

After time "t1" has elapsed, the contacts return to positions 2-3 and 11-10 for time "t2". The sequence of these switching operations is performed cyclically.

Delayed switch-on – cyclic

When the supply voltage is applied, the contacts remain in positions 2-3 and 11-10 for time "t1". After the time "t1" has elapsed, the contacts switch to positions 2-1 and 11-12 for time "t2". After time "t2", the relay contacts return to positions 2-3 and 11-10. The sequence of these switching operations is performed cyclically.



LED indication

Power supply to the relay is signalled by the illumination of the green LED [U]. Switching on of the relay contacts (position 2-1 and 11-12) is signalled by lighting of the red LED [∨].

Blinking of the green LED U indicates strong electromagnetic interference, which may cause incorrect operation of the relay timing system (relay still operates, but with reduced timing accuracy).

Working time setting

Use the time range selection knob $T1 \leftrightarrow$ and $T2 \leftrightarrow$ to set one of the ranges, then use the time setting knob $T1 \times$ and $T2 \times$ to set the value on the scale from 1 to 12. The product of these values is equal to the operating time (e.g. $1 \text{ m} \times 7 = 7 \text{ min.}$).

Setting the rotary switch of the time range to the position



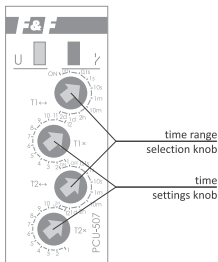
- » ON when the power is on results in permanent contact closure in positions 11-12 and 2-1;
- » OFF, when the power supply is on, results in permanent contact closure in positions 11-10 and 2-3.

Work function setting

The specific function is selected using the jumper on terminals 7-9.

Delayed switch-off – no jumper;

Delayed switch-on – jumper inserted between terminals.



When the relay is on, the system does not react to changes in the working time range and work function settings.



Operation with the newly set time range and operating mode takes place after the power supply is switched off and back on.



When the power supply to the relay is switched on in the set time range, it is possible to continuously adjust the time in the range of time setting values 1÷12.

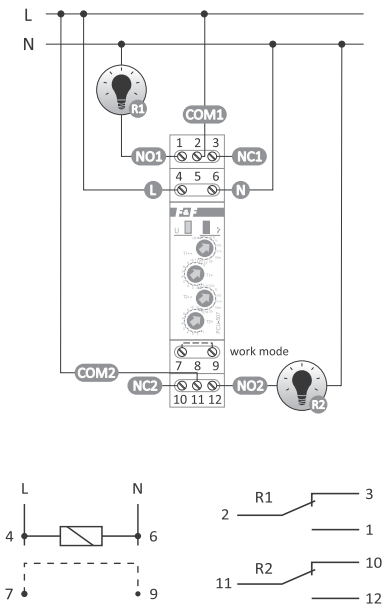
Time ranges

0,1 s:	0.1÷1.2 sec	10 m:	10÷120 min.
1 s:	1÷12 sec	2 h:	2÷24 h
10 s:	10÷120 sec	1 d:	1÷12 days (24÷288 h)
1 m:	1÷12 min.	2 d:	2÷24 days (48÷576 h)
ON	when the power is switched on, the contact is permanently switched on in positions 11-12 and 2-1.		
OFF	when the power is switched on, causes the contact to be permanently closed in positions 11-10 and 2-3.		

Mounting

1. Turn off the power supply.
2. Fix the relay on a rail in the switchboard.
3. Connect the power supply wires to terminals 4-6.
4. Connect the controlled circuits according to the following diagram.

Wiring diagram



4-6	relay power supply
7-9	jumper (selection of work functions)
2	output 1: common contact COM1
3	output 1: NC contact
1	output 1: NO contact
11	output 2: common contact COM2
10	output 2: NC contact
12	output 2: NO contact

Technical data

power supply	195÷253 V AC
maximum load current (AC-1)	2×8 A
contact	separated 2×NO/NC
work time (adjustable)	0.1 s÷576 h
break time (adjustable)	0.1 s÷576 h
activation delay	<50 ms
power indication	green LED
contact status indication	red LED
power consumption	0.8 W
terminal	2.5 mm ² screw terminals
tightening torque	0.4 Nm
working temperature	-25÷50°C
dimensions	1 module (18 mm)
mounting	on TH-35 rail
ingress protection	IP20

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.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.

