

Control timers (programmable)

Purpose

The programmable control timer is used to time control devices in a home or industrial automation systems according to an individual time program set by the user.

Product	Type	Number of channels	Actuator element	Page
PCZ-521.3	programmable, weekly	1	relay	131
PCZ-521.3 PLUS	programmable, weekly	1	relay	130
PCZ-522.3	programmable, weekly	2	relay	131
PCZ-523.2	pulse (bell)	1	relay	131
PCZ-524.3	astronomical	1	relay	133
PCZ-525.3	astronomical with a night-time break	1	relay	134
PCZ-525.3 PLUS	astronomical with a night-time break	1	relay	134
PCZ-526.3	astronomical with a night-time break	2	relay	135
PCZ-529.3	yearly	1	relay	132
PCZ-531A10	programmable, weekly	1	analog output	48
PCZ-531LED	programmable, weekly	1	transistor	48

Weekly programmable timer – is used to time control devices in a home or industrial automation system according to an individual time program set by the user. In this type of timer, the minimum time of relay activation is 1 minute.

Pulse timer (bell timer) – used for time control of devices in a home or industrial automation systems according to an individual time program set by the user, and is programmed on the principle of setting the switch-on time and pulse duration. This type of timer allows you to program the relay to be switched on from 1 second.

Astronomical clock – used to switch on and off lights or other electric appliances, according to the hours of sunset and sunrise. Switch on and switch off points are calculated on the basis of information about the current date, time and geographical coordinates of the place of the timer installation. In this type of clock, it is not possible to "manually" program the hours of switching on and off.

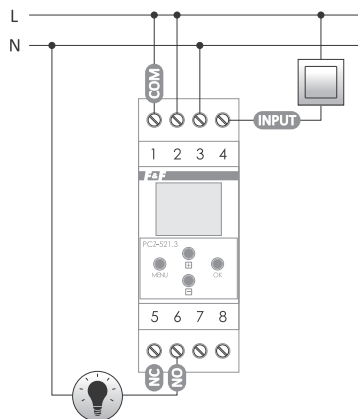
Yearly timer – used to time control devices in a home or industrial automation systems according to an individual time program set by the user in the yearly cycle. This type of timer allows you to program the relay to be switched on and off on a specific day of the year and at a specific time.

ON/OFF type: weekly

PCZ-521.3 PLUS 1-channel

Functions

- 500 memory cells;
- NFC wireless communication;
- **A backlit LCD display with adjustable brightness level;**
- **An external button for manual control of the relay can be connected;**
- A memory of the relay status in manual mode;
- Free PCZ Configurator app for your smartphone (Android);
- Operating modes:
 - automatic – the switching on of the receiver is determined by the operating program of the controller;
 - semi-automatic – operation in automatic mode can be temporarily interrupted and the status of the relay can be set manually;
 - manual – the status of the relay can be set manually;
- Battery back-up of the timer operation and an indication of the battery charge status.



power supply	24÷264 V AC/DC
maximum load current (AC-1)	16 A
contact	separated 1xNO/NC
backup time clock operation	6 years*
battery type	2032 (lithium)
backup time display operation	no
accuracy of the clock	1 s
time error	±1 s/24 h
time program setting accuracy	1 min.
program memory cells	500 (250 pairs of ON/OFF commands)
power consumption	1.5 W
terminal	2.5 mm ² screw terminals (cord) 4.0 mm ² screw terminals (wire)
tightening torque	0.5 Nm
working temperature	-20÷50°C
dimensions	2 modules (35 mm)
mounting	for TH-35 rail
ingress protection	IP20

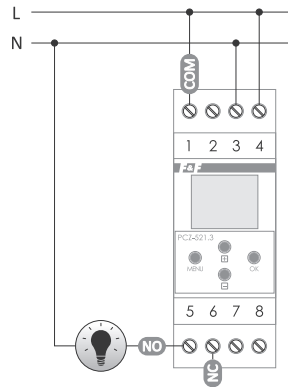
* battery life addicted to weather conditions and frequency of mains failure

⚠ PCZ-521.3 PLUS can not work with backlit buttons

PCZ-521.3 1-channel

Functions

- 500 memory cells;
- Relays status memory;
- Battery charge level;
- LCD contrast setting;
- NFC wireless communication;
- PCZ Configurator app for your smartphone.



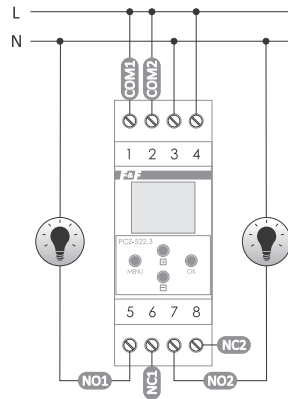
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time error	±1 s/24 h
time program setting accuracy	1 min.
program memory cells	500
power consumption	1.5 W
terminal	2.5 mm ² screw terminals (cord) 4.0 mm ² screw terminals (wire)
tightening torque	0.5 Nm
working temperature	-20÷50°C
dimensions	2 modules (35 mm)
mounting	for TH-35 rail
ingress protection	IP20

* battery life addicted to weather conditions and frequency of mains failure

PCZ-522.3 2-channel

Functions

- 2 independent channels, separately programmable;
- 500 memory cells + relay status memory;
- Battery charge level;
- LCD contrast setting;
- NFC wireless communication;
- PCZ Configurator app for your smartphone.



power supply	24÷264 VAC/DC
maximum load current (AC-1)	2×16 A
contact	separated 2×NO/NC
backup time clock operation	6 years*
battery type	2032 (lithium)
backup time display operation	no
accuracy of the clock	1 s
time error	±1 s/24 h
time program setting accuracy	1 min.
program memory cells	2×250
power consumption	1.5 W
terminal	2.5 mm ² screw terminals (cord) 4.0 mm ² screw terminals (wire)
tightening torque	0.5 Nm
working temperature	-20÷50°C
dimensions	2 modules (35 mm)
mounting	for TH-35 rail
ingress protection	IP20

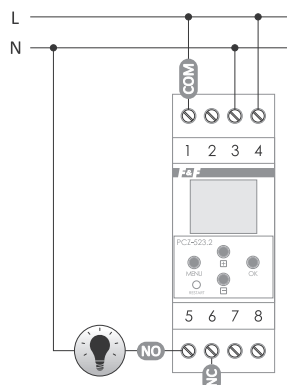
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ON/OFF type: pulse (bell)

PCZ-523.2 1-channel, with 2 programmable lines

Functions

- The timer switches the device on at a preset time and switches it off after a preset time (pulse) in cycles: daily, weekly, working days (Mon.÷Fri.) or weekend (Sat., Sun.).
- Pulse length: 1 s÷100 min.
- The relay has 2 independently programmable, switchable program lines controlling the alternatively connected receiver.



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maximum load current (AC-1)	16 A
contact	separated 1×NO/NC
backup time clock operation	6 years*
backup time display operation	no
accuracy of the clock	1 s
time error	±1 s/24 h
time setting accuracy	1 min.
pulse length	1 s÷100 min.
program memory cells	250 (2×60 ON/HOLD commands / program)
power consumption	1.5 W
terminal	2.5 mm ² screw terminals (cord) 4.0 mm ² screw terminals (wire)
tightening torque	0.5 Nm
working temperature	-20÷50°C
dimensions	2 modules (35 mm)
mounting	for TH-35 rail
ingress protection	IP20

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ON/OFF type: yearly

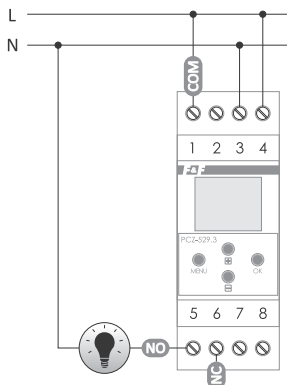
PCZ-529.3 1-channel

Functioning

The timer allows you to establish overriding seasonality in the automation system. It switches devices on and off according to the programmed dates in a yearly cycle. Can be set to the switch on for only one, selected day of the year. Additionally, it is possible to set the time of switching on and off, which means providing a specific time and minute for the set date.

Functions

- 500 memory cells;
- Relays status memory;
- Battery charge level;
- LCD contrast setting;
- NFC wireless communication;
- PCZ Configurator app for your smartphone.



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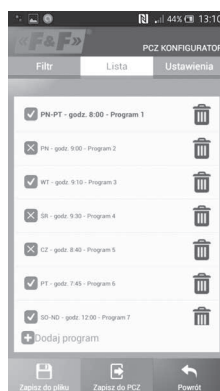
New features in the PCZ-xxx.3 series (PCZ-521.3, PCZ-521.3 PLUS, PCZ-522.3, PCZ-529.3)

NFC wireless communication – wireless reading and writing of the control timer configuration via an Android phone equipped with the NFC communication module.

PCZ Configurator app – free app for Android phones and tablets equipped with NFC wireless communication module.

Functions

- Setting the timer configuration in offline mode (without the connection with the timer);
- Reading and writing the configuration to the controller;
- Quick programming of multiple controllers with one configuration;
- Reading and writing the configuration to the file;
- Configuration sharing via e-mail, Bluetooth, network drives;
- Unique identification of the connected timer and the ability to give the devices their own names;
- Automatic backup of the configuration;
- Restore previous configuration (in conjunction with the unique identifier of each timer);
- Set the time and date based on the watch on your phone.



Application is available on:

<https://play.google.com/store/apps/details?id=pl.com.fif.clockprogramer>