TIME RELAY PCM-01/U

INSTRUCTION MANUAL

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DESCRIPTION

The one mode time relay PCM-01/U has a delayed switch on function (reversive) in automation and control systems. The relay is released by power supply voltage. It has a wide time adjustment range from 0,1 s to 10 days. Additional ON/OFF functions enable constant switch on, switch off of the output (load). The system has the indicators of power supply voltage, relay mode, and time measure with the help of red LED diode.

FEATURES

- Operating mode: switch on delay (input voltage release),
- supply voltage control indicator LED green,
- power/relay supply indicator and time measure LED red,
- time measure accuracy,
- wide time adjustment range,
- constant switch on, switch off function,
 relay output 1 change-over contact
- relay output 1 change-over contact (NO/NC) contact max 16 A capacity,
- TH 35 DIN rail installation.



The device is designed for one-phase installation and must be installed in accordance with standards valid in a particular country. The device should be connected according to the details operating manual Installa-

included in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.

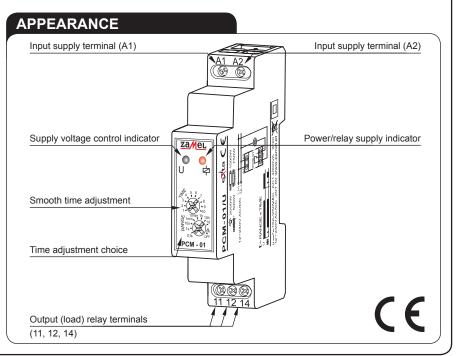


The symbol stands for selective collection of electrical and electronic devices. Placing used devices with other waste is not allowed ZAMEL Sp. z o.o.

ul. Zielona 27, 43-200 Pszczyna, Poland Tel. +48 (32) 210 46 65, Fax +48 (32) 210 80 04 www.zamel.com, e-mail: marketing@zamel.pl

TECHNICAL PARAMETERS

PCM-01/U	
Input (supply) terminals:	A1, A2
Input rated voltage:	12 ÷ 240 V AC/DC
Input voltage tolerance:	-5%, +10 %
Supply voltage control indicator:	LED green
Nominal frequency:	50 / 60 Hz
Rated power consumption:	15 mA
Operating mode number:	1 (switch on delay)
Time adjustment range t:	from 0,1 s to 10 days
Time measure accuracy:	0,2 %
Time adjustment:	2x potentiometer (rotary + step)
Power/relay supply indicator and time measure:	LED red
Output relay parameters:	1NO/NC - 16 A / 250 V AC1 4000 VA
Number of terminal clamps:	5
Section of connecting cables:	from 0,2 to 2,50 mm ²
Ambient temperature range:	from -20 to +60 °C
Operating position:	free
Mounting:	TH 35 rail (PN-EN 60715)
Protection degree:	IP20 (PN-EN 60529)
Protection class:	П
Overvoltage category:	П
Pollution degree:	2
Rated impulse withstand voltage:	2 kV (PN-EN 61000-4-5)
Dimensions (height / width / depth):	monomodular (17,5 mm) 90x17,5x66 mm
Weight:	0,09 kg
Reference standards:	PN-EN 60730-1
	PN-EN 60730-2-7 PN-EN 61000-4-2,3,4,5,6,11



MOUNTING

- 1. Disconnect the power supply from the mains by the phase fuse, the circuit breaker or the switch disconnector that are joined to the proper circuit,
- 2. Check if there is no voltage on connection cables by means of a special measure equipment.
- 3. Install PCM-01/U device in the switchboard on TH 35 DIN rail,
- 4. Connect the cables with the terminals according to installing diagram,
- 5. Switch on the power supply from the mains,
- 6. Adjust the time using the TIME and RANGE knobs, where t=TIMExRANGE.

Switching on the power supply voltage causes the green LED luminosity. The cycle wil be automatically initiated with the adjusted t time.

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Voltage type: 24V - 24 V AC/DC U - 12+240 V AC/DC: *PCM-01, PCM-02, PCM-03, PCM-06* U - 24+250 V AC; 30+300 V DC:

Device type: 01 - 1 operating mode – switch on delay 02 - 1 operating mode – switch off delay 03 - 1 operating mode – cyclic change over 04 - 8 (PCP-04) or 10 (PCM-04) operating modes

Casing type: M - modular version (TH 35 DIN rail) P - flush junction box Ø60 version

available for PCM-07

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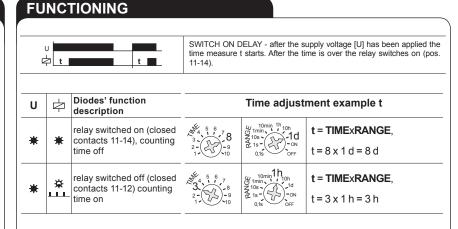
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CONNECTING

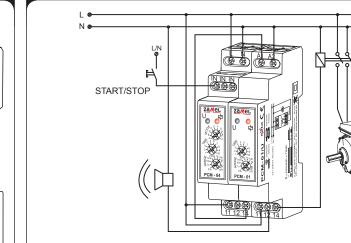
12 ÷ 240 V AC/DC

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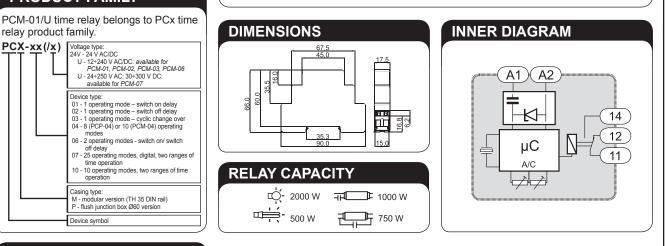


EXAMPLE OF INSTALLATION



Warning system before the motor starts up.

PCM-01/U time relay works in the system where after pushing the START/STOP button a warning acoustic signal is heard to inform the motor is just to start up. This relay cooperates with PCM-04 in bistable relay mode with limited time (MODE=I), it enables to switch on/off the engine by means of one button as well as to set max possible working time.



WARRANTY CARD

Device symbol

PRODUCT FAMILY

relay product family.

PCX-xx(/x)

There is 24 months guarantee on the product	
	1. ZAMEL provides a two-year warranty for its products.
	2. The ZAMEL warranty does not cover: a) mechanical defects resulting from transport, loading / unloading or other circumstances b) defects resulting from incorrect installation or operation of ZAMEL products; c) defects resulting from any changes made by CUS-TOMERS or third parties, to products sold or equipment necessary for the correct operation of products sold; d) defects resulting from force majeure or other aleatory events for which ZAMEL is not liable; e) power supply (batteries) to be equipped with a device in the moment of sale (if they appear);
	3. All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering a defect.;
	4. ZAMEL will review complaints in accordance with existing regulations.;
	The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL.
J	Guarantee does not exclude, does not limit, nor does it suspend the rights of the PURCHASER resulting from the discrepancy between the goods and the contract.
Salesman stamp and signature, date of sale	