

AWZ518

v1.0

PC2 Timing relay module

Edition: 2 from 22.06.2012 Supersedes: 1 from 23.05.2008

EN*

1. Description.

The PC2 timing relay module is intended for AC power status control in object alarm systems (monitoring transmitters, alarm control panels, DC power supply units, etc.). The module informs about AC power loss with a preset delay time – T (3s/63s/17m37s/4h45m, +/-2%) and its return. Momentary return of the AC power during the T delay countdown will reset the countdown (stop and return to normal state). The module is equipped with an AC1 input which shall be connected to one of the secondary winding of the transformer that supplies the device (the module must be powered with 12V/DC of the device to which the controlled terminal of the transformer is connected). PC2 has two OC outputs (OC1, OC2) and an LED (L1) indicating the device's status. Delay time indicating AC power loss is adjustable via two jumpers – Z1, Z2.

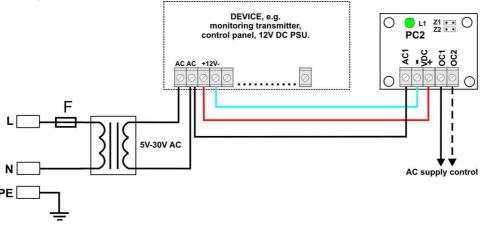


Fig.1. A diagram of the PC2 connection (example).

2. Description of components and connectors of the module.

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Nr [rys.2]	Description	
[1]	 L1 green LED - module's status indication permanently illuminated: presence of AC power at AC1 terminal, presence of VDC power of the module twinkles 1x/1s: no AC power at AC1 terminal, delay time countdown off: the module has finished the countdown and changed the status of OC outputs (alternatively - no 12V DC power) 	
[2]	 Z1, Z2 jumpers - adjustable time delay of AC power failure indication Z1= , Z2= time delay T= 3s Z1= , Z2= time delay T= 1 min 5s Z1= , Z2= time delay T= 17 min 40s Z1= , Z2= time delay T= 4h 45 min jumper on jumper off 	
[3]	Connectors AC1 – input of controlled AC voltage (one of terminals of the transformer's secondary winding) +VDC- DC power input OC1 - OC output (open collector) indicating AC power status: • normal state: L (0V, GND), • active state: hi-Z (high impedance) OC2 - OC output (open collector) indicating AC power status: • normal state: hi-Z (high impedance) • active state: L (0V, GND) OC type Normal state: AC voltage presents at the AC1 terminal or after AC power loss Active state: no AC voltage at the AC1 terminal, delay time countdown is finished	

3. Specifications.

5. Specifications.		
10 V ÷ 15 V DC		
5 mA		
3s/1min 5s/17min 40s/4h 45min (-2%/+2%)		
0V ÷30V AC		
L state ('0' logic)= 0V ÷1,5V AC		
H state ('1' logic)= 5V ÷30V AC		
GND= 'VDC-' power terminal		
OC type 50mA max.		
 normal state: L (0V, GND), 		
 active state: hi-Z (high impedance) 		
 normal state: hi-Z (high impedance) 		
 active state: L (0V, GND) 		
L1 green LED		
II environmental class, -10℃ ÷ 50℃		
42 x 35 x 23 (WxHxD)		
installation tape or installation bolt x2		
Ф0,41÷1,63 (AWG 26-14)		
0,03kg /0,05 kg		
CE, RoHS, 2 year from the production date		

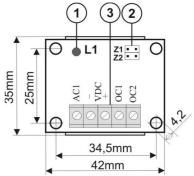


Fig.2. The view of the PC2 module.

4. Installation.

The module is to be mounted by a qualified installer, holding relevant permits and licenses (applicable and required for a given country) for 230V/AC and low-voltage installations. The unit should be mounted in confined spaces, in accordance with the II environmental class, with normal relative humidity (RH=90% maximum, without condensation) and temperature from -10°C to +50°C.

The device shall be mounted in a metallic enclosure (a cabinet, a final case). In order to fulfil LVD and EMC requirements, the rules for: power-supply, encasing and screening shall be followed, according to application.

- 1. Mount the enclosure (cabinet etc.) and lead the cables through the cable ducts.
- 2. Install the PC2 timing module on spacers or mounting tape (the spacers shall be mounted prior to the enclosure / cabinet installation procedure).
- 3. Lead the DC supply power to the +VDC, -VDC terminals, keep polarisation.
- 4. Lead the AC controlled power to the AC1 terminal.
- 5. Connect the AC power loss signal: OC1 or OC2 (depending on application requirements) to the indicating device (LED, transmitter's input, control panel's input, indicator, etc.)
- 6. With Z1, Z2 jumpers, choose the indication delay time of the OC1 and OC2 outputs.
- 7. Once the tests and operation control have been completed, the enclosure / cabinet can be locked.

WEEE PARKING

According to the EU WEE Directive – It is required not to dispose of electric or electronic waste as unsorted municipal waste and to collect such WEEE separately.

WARRANTY

Pulsar K. Bogusz Sp.j. (the manufacturer) grants a two-year warranty for the equipment, counted from the device's production date.

Pulsar K.Bogusz Sp.j.

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