

PI121, PI121P

CURRENT TRANSDUCERS
terminal version PI121
threaded through version PI121P

- measurement arithmetic mean value of current
- output signal 0-20mA powered from input
- loop-powered output signal 4-20mA
- direct processing current to value of 100A (PI121P)
- rectifier method of measurement
- isolation input – output - 4000Vef
- measurement range 0 - 120% of rated input
- accuracy < 0,5%
- designed for DIN 35 rail mounting
- low price

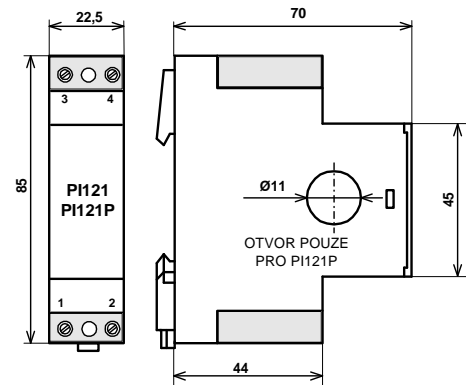
The transmitter converts the mean value of an AC signal into a unified DC current. The converter input is a current measuring transformer. The transformer has got only one primary thread for transducer PI121P. This isolates the input circuit and feeds the output current loop. The output signal is full-wave rectified and filtered. Input and output circuit is protected against overload. The output is calibrated in rms value with the consideration factors shape distortion 1.1107 (sinus). The converter can be used if less distorted waveform input signal. When used in variable speed drive or other non-linear control elements, it is preferable to use a type converter measuring the true RMS value.



Electrical specifications:

- operating temperature range: -25 ... +70°C
- storage temperature range: -40 ... +80°C
- power supply: from input measurement signal
loop-powered for output 4-20mA
- rated input: 1A, 2,5A, 5A AC for PI121
50A, 75A and 100A AC for PI121P
- standard measuring range: 0 ... 100% of rated input
- maximum measuring range: 0 ... 120% of rated input
- nominal frequency: 50Hz (60Hz)
- consumption current input: max.0,5VA
- input overload capacity: 2 In – 1min., 20 In – 1s
- output: 0-20mA, 4-20mA,
about 35mA
- output limit: 500ohm
- maximum burden of current loop: linear
- transmission: <0,5%
- maximum transmission error: <0,02%/°C
- temperature induced error: 4000Vrms
- test voltage: 300ms
- response time: 120g
- weight: IP40
- protection housing: IP10
- protection terminal board: 2
- pollution degree: III
- installation category:

Dimensional drawing:



Type test:

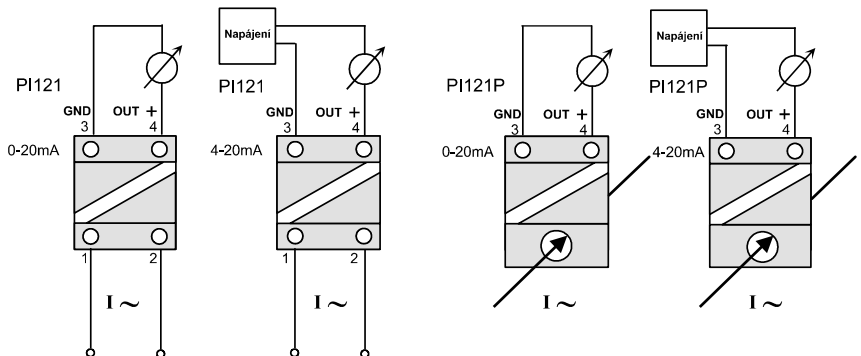
- Basic type test: in compliance with ČSN EN 60688
- EMC: in compliance with ČSN EN 61326-1
- Safety: in compliance with ČSN EN 61010-1

Terminals:

- 1,2...input (only PI121)
- 3,4...output (4 is +)

Connection terminals:

The terminals accept conductors up to 4 mm². We recommend using a cable with a core cross section of 0.5 mm². In noisy environments, use shielded cable.



Ordering instructions:

- Your order should include:
- transducer type
- rated input current
- output range
- quantity (No. of pieces)



Likvidaci po ukončení životnosti provést odděleným sběrem.
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