

## **DESCRIPTION**

Signal converter for the conversion of an AC current signal to an analogue process signal. A typical application would be to convert a signal from a Current Transformator measuring high current to an analogue input of a PLC. Input, output and operating voltage are isolated to 3,75kV AC.

Input range and output type and range are selected via choice of terminals - See wiring diagram.

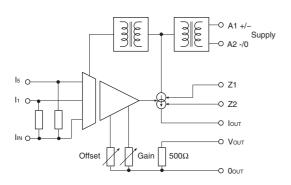
#### Features:

- 0-1A AC and 0-5A AC input in one version.
- Output 0-10VDC/2-10VDC/0-20/4-20mA selected via terminals.
- Output offset and gain adjustable ±5%.
- $\bullet$  LED indication of input less that 5% / i.e. indication of probe failure.
- Galvanically isolation supply/input/output is 3,75kV AC 1 min.
- Operating voltage 12-48V AC/DC, 115-230VAC.

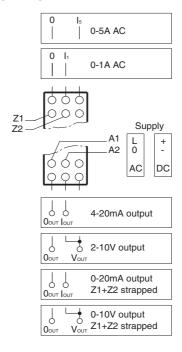
## **VERSIONS/ORDERING CODES**



# **BLOCK DIAGRAM**



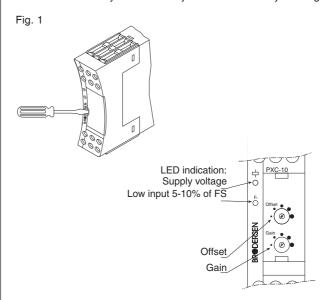
#### WIRING DIAGRAM



#### **ADJUSTMENT**

PXC-10 is delivered adjusted to offset = 0% and gain = 100%. To compensate for any loss in cables, etc. is it possible to adjust the output signal.

Remove the front cover. The offset (zero) and gain (span) on the output signal can be adjusted +/- 5% of max. signal. Put the cover back on to avoid any accidental adjustment of the relay. See fig. 1.



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#### **TECHNICAL DATA**

Input:

Input signal Impedance Imax 0-1A AC 0,10hm ЗА 0-5A AC 0,033Ohm 8A

Selected via choice of terminals.

Frequency at

AC-input: 45-65 Hz.

Voltage drop: Range: 1A:0,1V@FS 5A:0,17V@FS

**Output:** 

Output signal 500 Ohm 4-20mA DC 0-20mA DC 500 Ohm

0-10V DC via intern 500 Ohm shunt

Selected via terminals.

Offset(zero) and gain(span) are adjustable ±5%. See. fig. 1.

<2%, without adjustment. Accuracy: Linearity: <0,2% of full scale. Temp. coefficient <0,02%/°C. Ripple (RMS): <0,1%.

Supply voltage:

Supply voltage Consumption 12-48V AC/DC (10,5-60)V AC/DC <1W. 115-230V AC (60-264)V AC <1W.

All galvanically isolated 3,75kV AC 1 min. to input and output.

#### General data:

Ambient temperature:-20 to 55°C. Storage temperature: -40 to 80°C.

Mounting: 35mm DIN-rail (EN50022)

Terminals: Screw terminals with dual compartment.

Terminal screws are combined crosshead/

slotted. Up to 2 x 2,5mm<sup>2</sup> wire. (2 x 1,5mm2 inc. ferrule).

Recommended torque, 0,5 Nm, max. 0,7Nm.

(VDE0609-1).

Indicators: Green LED = operating voltage.

Yellow LED = input less than 5% of FS. (indication of cable failure).

Protection: IP20.

Electric isolation: 3,75kVAC (1 min.) between input output

and supply. Noryl (GE), UL94V1. Housing: Terminal block: Noryl (GE), UL94V0.

Weight: 170 g.

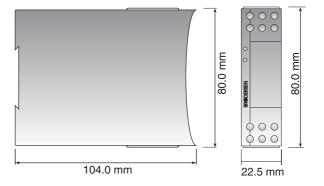
## **SPECIFICATIONS:**

PXC-10 is designed and developed with regard to relevant specifications:

- EN60204-1 / VDE0113 electrical material on machines.
- VDE0110 / IEC664 Isolation specifications/creepage and clearance distances.
- · Electrical safety in accordance with EN61010.
- IEC414 Safety regulations for control and monitoring equipment.
- Emission EN50081-1 EMC: Immunity EN50082-2
- Humidity in accordance with IEC68-2-3; RH=95%, 40°C.
- Vibration in accordance with IEC68-2-6.
- Shock when mounted, in accordance with IEC68-2-27.

PXC-10 is CE-marked in accordance with EMC-and the Low Voltage Directive.

#### **MECHANICAL DIMENSIONS**



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