



Current Transducer passive



No external supply

Up to 75 A ac

Also for 3 phase application

Output signal 20 mA DC

High overload

PROFILE

Typical application of current transducers is current monitoring of heating belts or groups of heating belts at extruders, injection mould machines or other machines where the heating power effects the quality of the product beeing manufactured.

The break of a switcher, fuse or the belt can be monitored to generate an alarm. More comfortable PLC's can even generate further actions like switching off heating or running down the machine.

The transducers do not need an external supply. The rugged design permits the multiple overload of nominal current.

DESCRIPTION

Electronic is integrated . The primary lead is fed through the transducer (take care for the diameter of the bore). To increase output with smaller currents, the primary lead can be fed several times through (pay attention to coil factor).

TECHNICAL DATA

INPUT

Primary current: 75A ac,

OUTPUT

Standard signal: 0...20 mA dc

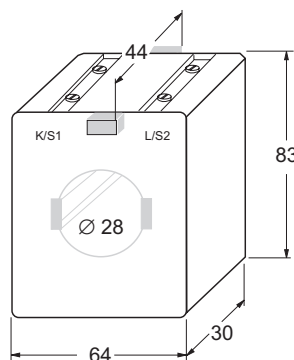
Ripple: high

LIMITING DATA

$P = 0,2 \text{ W}$, $I = 0,02\text{A}$, $I_{th.} = 32 \text{ kA}$ (1,0 s)

GENERAL

Dimensions



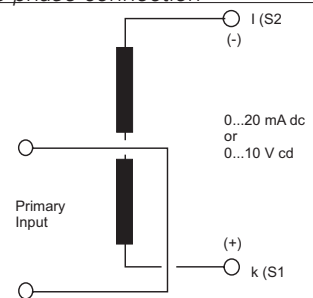
Mounting

DIN Rail 35 mm

Electrical connections

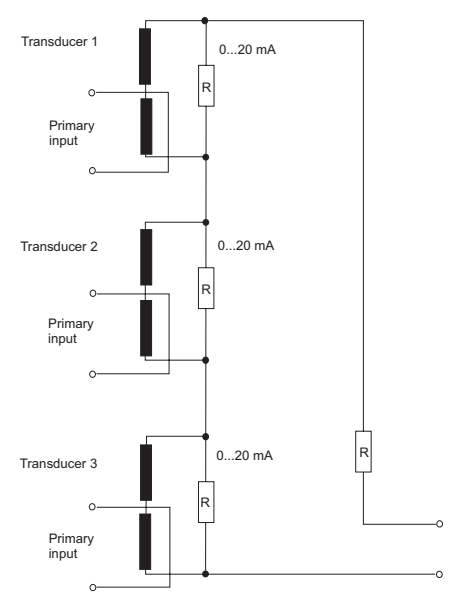
Connection to measuring device via terminals (+) and (-).

Single phase connection



Beside single phase application also 3-phase measurement ist possible.

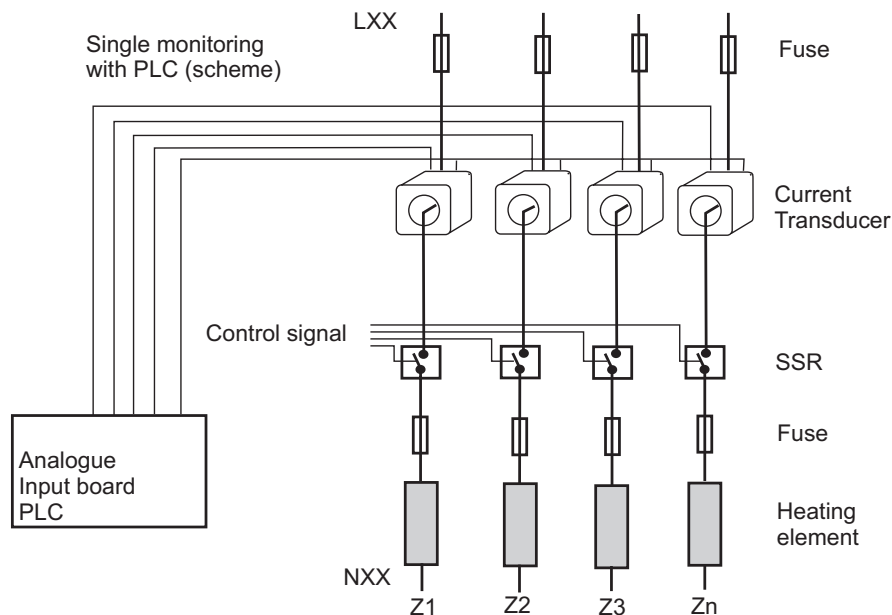
3-phase connection



The resistors must be matched in such way that the resulting output signal can be read by the analogue input board from the PLC.

For 3-phase applications parallel switching of the current transducer is also possible.

APPLICATION example



SAFETY HINTS

- During your operation with the current transducer please pay attention to following important hints:
- Only use intact and suitable tools
- Pay attention to the safety instructions regarding working with electrical current
- Damaged cables endanger risk of electrical shock- this implements danger to health or life.
- Do not manipulate the current transducer
- Don't run the the current transducer without the protective cover which is part of the delivery

ORDER-NO

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PMA

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