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MEASURING AMPLIFIER

AE1

Bulletin 23/E/97



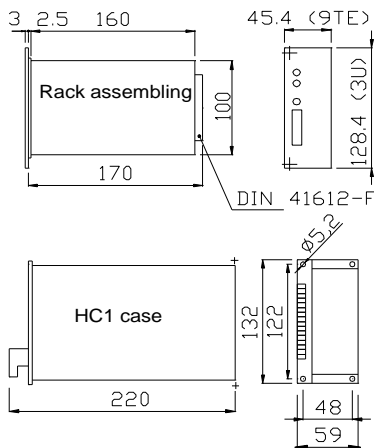
- Construction according to CEI-EN60204-1/61010-1
- Conformity to CE (IEC 801-2/801-4/801-6/EN50081-2)

- The measuring amplifier is a unit dedicated to tension measurement with input coming from load cells.
- The measuring amplifier is used for the connection with a PCL, supervision system, controller.
- Locating in rack system (output on DIN 41612/F connector), or locating in case HC1 (output with terminals).
- The measuring amplifier can be connected to one load cells (parallel connection for the measurement of total web tension onto idler roll).
- Connection to load cell with 4 wires or 6 wires (sensing circuit) to compensate measuring errors due to resistance of electric cables (long distance connection between load cell and measuring amplifier) and to resistance of barriers for explosion-proof environment.

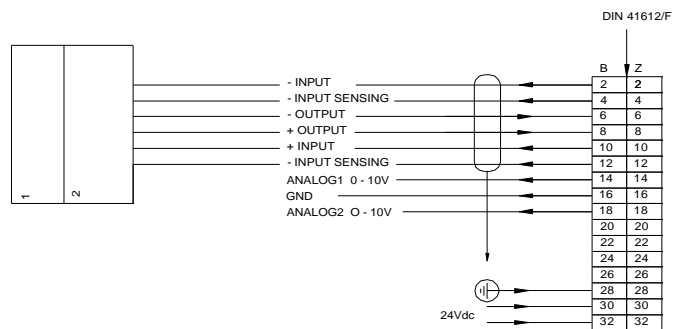
ELECTRICAL SPECIFICATIONS

- Power supply 24Vcc±20% (ripple included) - 90mA
- Differential input
- Input impedance >10 Mohm
- Common mode, rejection >110dB
- Load cell selectable power supply 7-10Vcc (50mA)
- Temperature range: +10° / -50°C
- Linearity: <0.02%
- Fuse (315mA)
- Dip switches and trimmers for:
 - Gain (750/4500V/V)
 - Zero (±7.5V) compensation
- 2 analog outputs: OUT1 - OUT2
 - OUT1: 0/10V (10mA)
 - Jumper for 0/-10V
 - OUT2: 0/10V-0/20mA - 4/20mA - selectable with Jumper
- Passband: 25Hz-3dB / 7Hz-3dB selectable with Jumper
- Variant: type AH1-R (converting module)
current input 0-20mA
voltage output 0-10V

DIMENSIONS (mm)



ELECTRICAL CONNECTION



1=N°1 load cell
2=N°2 load cells (parallel connection)