Type LAC 74.1 Analogue Amplifier



IP20

Product Description

The Analogue Amplifier Type LAC 74.1 is a universal amplifier for static / semi-static weighing applications.

DIP switch setting for zero, gain and filtering. Fine adjustment for zero and gain by 20 turn potentiometer.

Analogue output available (short-circuit proof):

- Voltage 0 ... 10 V or
- Current 0 ... 20 mA or 4 ... 20 mA

Safety circuit with logic output, normally closed OC, opens in case of error (including LED display):

- Load cell cable failure
- The current or voltage output is out of range
- Power fail

Key Features

- Load cell excitation 10 V DC for up to 4 load cells 350 Ω
- 6 Wire load cell connection
- Analogue output 0/4 ... 20 mA or 0 ... 10 V selectable
- Input filtering 0.33 ... 33 Hz
- Zero/gain adjustment by DIP switches and fine trimming potentiometer
- Safety circuit with logic output including LED display
- Power supply 12 ... 24 V DC or 12 ... 18 V AC
- DIN-rail mounting

Available Accessory

- Zener-Barrier Set Type ZB-Ex

Specifications

Linearity	< 0.01 %
Analogue input range	±0.1 mV/V to 3.5 mV/V, gain adjustment by DIP switches and fine trimming potentiometer
Excitation	10 V DC, for up to 4 load cells (350 Ω) or 12 load cells (1 100 Ω), 6 wire technique
Safety circuit	Logic output, Open Collector, normally closed, opens in case of error (max. 30 V DC, 300 mA): - Load cell input- or sense wires signals are out of range - The current or voltage output is out of range - Power fail
Zero adjustment (Offset)	±3 mV/V, zero adjustment by DIP switches and fine trimming potentiometer
Current output	0 ... 20 mA or 4 ... 20 mA; $R_{Load} \geq 500\ \Omega$
Voltage output	0 ... 10 V; $R_{Load} \geq 500\ \Omega$
Input filters	0.33 ... 33 Hz, DIP switch selectable (5 steps)
Temperature range	–20 °C to +50 °C (operating); –20 °C to +60 °C (storage)
Temperature effects	on zero < ±25 ppm/°C , on span < ±50 ppm/°C
Enclosure	135 x 66 x 18 mm, protection IP20, for standard 35 mm DIN-rail mounting. Special housing on request.

System Configuration

