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DC AMPLIFIER CL 10D

FEATURES:

- Fixed gain amplifier for strain gauge based sensors
- Built-in data bus DIN 35
- Operating temperature range -25 to 65 °C
- 24 VDC Supply voltage

Mod. CL 10D is a single channel DC amplifier designed for use with strain gauge based sensors employing 120 Ω to 1200 Ω full bridge circuits.

CL 10D is the ideal amplifier for signals from strain gauge based force sensors, weighing cells, and pressure sensors. It is particularly suitable for applications in hostile industrial environments where a high degree of protection against dust, vibrations, and humidity is called for.



TECHNICAL SPECIFICATIONS:

Gain*	V/V	100
Transmission bandwidth*	Hz	0 to 200
Continuously adjustable gain*	%	± 10
Bridge excitation voltage**	V	5 or 10
Min. resistance of sensor	Ω	120 for 5 V supply
	Ω	350 for 10 V supply
Max. cable length (to sensor)	m	5
Long term stability of output signal	%/month	≤ 0,2
Nonlinearity	%	≤ 0,1
Temperature effect on gain	%/10 °C	≤ 0,05
Temperature effect on output signal	%/10 °C	≤ 0,05
Operating temperature range	°C	-25 to +65
Input: - type - resistance	GΩ	symmetric ≥ 1
Voltage output: - type - maximal voltage - maximal current	V mA Ω	asymmetric ± 10 24
Current output: - c - load resistance - maximal current	Ω mA	Asymmetric 400 24
Supply: - voltage - current - Cable length	V mA m	+24 +80 3

*User defined with ordering.

**User defined with ordering 5 V or 10 V

DIMENSIONS:

