SGALC Analogue Strain Gauge Load Cell Amplifier

Features

- Very stable bridge excitation
- User selectable analogue outputs
- IP65 ABS field case with cable glands
- Excitation: regulated 7.5V DC

Description

The SGALC strain gauge signal conditioning module is a cost effective signal conditioner for load cells that offers a wide input signal range.

With an input sensitivity range of 1.5 to 2.1mV/V, any sensor in this input range can be amplified to give 0-5V, 0-10V or 4-20mA outputs.

The SGALC is an ideal product for many OEM customers, as its flexibility means that it can be configured to suit most applications.

The SGALC can be supplied calibrated with any of LCM Systems sensor range or could be integrated within a larger instrumentation system.

Specification

Input signal	Full bridge strain gauge/load cell
Bridge resistance	350Ω or 1000Ω
Sensitivity	1.5 - 2.1mV/V
Excitation voltage	7.5V DC
Power supply	12-26V DC for 0-5V output
	18-26V DC for 0-10V & 4-20mA output
Linearity	0.3%
Temperature co-efficient	100ppm full work temperature range
Operating temperature	0-50°C
Environmental sealing	IP65
Case material	ABS plastic
Weight	90g

Typical Applications

- Force measurement systems
- Hoist & winch load control
- Simple weighing systems
- Conversion of load cell signals for long cable run applications

Wiring

Terminal No.	1	2	3	4	5	6	7	8	9	10
	To sensor					Power supply & output				
Define	EXC+	SIG+	SIG-	EXC-	Shield	12-26V DC	I out	V out	Common	Shield

OLCM SYSTEMS

Solutions in Load Cell Technology

SGALC Analogue Strain Gauge Load Cell Amplifier

Dimensions

83

97

58

21

33
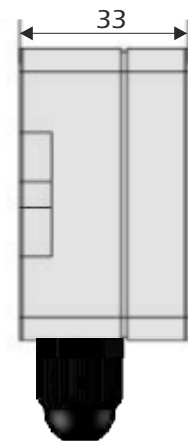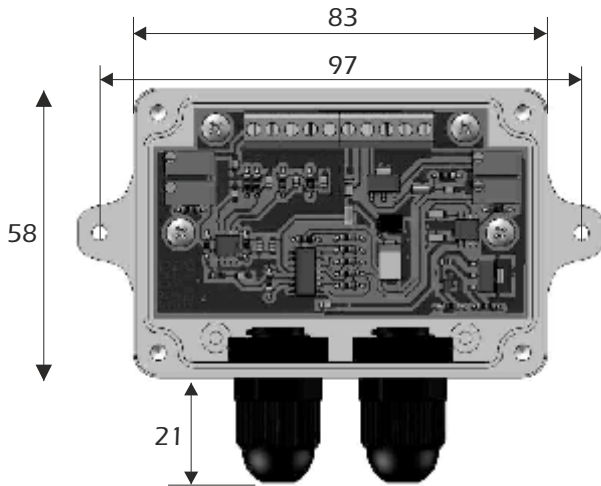
All dimensions are in mm

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