SY018I DIN Rail Mounted Loadcell Amplifier

Operating Information

SY018I amplifiers are supplied set up as detailed below unless special instructions are stated on the order. The span and zero presets should not be adjusted unless accurate calibration facilities are available. If the amplifier is supplied with a single loadcell a System Certificate is supplied giving the amplifier output at each loadcell calibration point.

Supply voltage	Maximum	30.0V
	Minimum	17.0V
Maximum supply current		185mA
Standard output	Zero load	4.0mA
	Full load	20.0mA
Bi-directional output	Tension full load	4.0mA
	Zero load	12.0mA
	Compression full load	20.0mA
Maximum loop resistance	24V supply	400Ω
Calibration configuration	24V supply	250Ω loop resistance
Non-linearity - Typical		±0.02% of full range
Excitation voltage - Nominal		10.0V
Maximum excitation current		150mA
Operating temperature range		0 to 50°C

Connections

Terminal	Loadcell Cable	Terminal	Function
A: Ex-	Blue & orange	E: +24V	+ Supply
B: In+	Yellow	F: 0V	Supply 0V
C: In-	Green	G: Output	Output
D: Ex+	Red	H: 0V	Output 0V

In+ and In- colours are shown for a positive output in compression, if a positive output is required in tension reverse the yellow and green wires.

Use good quality screened cable for the output with the screen only earthed at one point. This will usually be at the electronics powering the amplifier.

THE SUPPLY CONNECTIONS MUST NOT BE REVERSED.

DO NOT SHORT CIRCUIT THE AMPLIFIER OUTPUT TO THE POSITIVE SUPPLY TERMINAL.

CE This product complies with the requirements of the European EMC directive.

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