

Data Sheet

LCA100 – Load Cell Amplifier for Theatre Hoists

The LCA100 is a load cell amplifier designed for use on theatre type hoists. It connects to virtually all load pins in common use and provides a simple yet effective method of over-load detection.

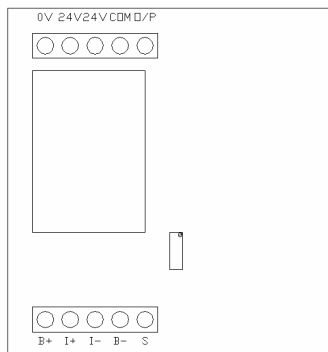
The load pin is connected locally to the LCA100 and the interface to the main control system is kept to a minimum. A single potentiometer is all that is needed to adjust the over-load set point. An LED indicator is provided on the LCA100 to assist in calibration during hoist commissioning and as a local indication of load status. A volt-free relay output is used for interfacing to the hoist control system. The relay is set up such that it is energised (contact closed, LED lit) when the load is under its over-load set-point and de-energises (contact open, LED not lit) when the over-load set point has been reached. The LCA100 has a simple hysteresis characteristic to prevent relay chatter and a zener temperature compensated bridge supply (9.1V) for stable operation.



Connections:

B+	Bridge +	(Connect to Load Cell Excitation +)
I+	Input +	(Connect to Load cell Output +)
I-	Input -	(Connect to Load cell Output -)
B-	Bridge -	(Connect to Load Cell Excitation -)
SC	Screen	(Connect to Load Cell Screen)

0V	0 Volts DC
24V	24 Volts DC
24V	24 Volts DC
Com	Relay Common
O/P	Relay Output



The LCA100 is available from:

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