

Load Cell Junction Box with Fault Monitor

Features

- On board Intelligence
- Alarm via volt free contacts for remote connection and load indication
- Alarm will be generated if:-
 - One or more load cells are out of balance from pre-set error band
 - Any load cell is operated outside preset range
 - Excitation voltage drops
 - Any connection is lost
 - A short circuit is detected
- mV/V display of each load cell & total
- Displays which load cell is at fault & fault type
- Can replace any standard junction box



Introduction

A junction box for the connection of 2 to 4 load cells; with on board intelligence to monitor load cell performance. An alarm will be immediately generated if any load cell falls outside the pre-set balance, operating range or any open or

short circuit connections are detected. These fault conditions are normally masked with a standard junction box allowing operation with measurement errors.

Benefits

- Immediate alarm and indication of a load cell malfunction
- Avoid incorrect material levels due to load cell or cable faults
- Continuous assurance of product quantity
- Can avoid batch wastage or product recall
- Increased safety in critical applications
- Reduction of down time by quick fault diagnosis
- Aids installation and commissioning

Specifications

Faults Monitored	Load Cell out of preset balance range Load Cell out of pre-set operating range Low/high excitation Open circuit to any load cell on each connection Short circuit on any load cell connection Internal load cell fault (Bridge Imbalance)
Powering Indication	By Load Cell Excitation typically 10v DC 1 x 4 digit 7 segment LED display for set up, load cell in error type & individual total mV outputs 6 buttons for reading & set up
Setting Method	2 part terminals, up to 2.5mm ² cable 4 x 5 way, for load cell connection
Connections	1 x 5 way, load cell output 1 x 3 way, alarm relay contacts
Dimensions Environmental Enclosure Material	200 x 120 x 75mm. (PCB dimensions 170 x 100mm excluding case) Sealed to IP65 with cable glands & blanking plugs fitted CE Compliance. Grey ABS

Order Codes

LCI PCB supplied as standard in ABS Junction Box Enclosure IP65 (standard) with a Transparent Plastic Clear Lid

Option Available

LSS Stainless Steel Junction Box Enclosure IP65

Protection

Surface Junction Box to IP65

