



APPLIED MEASUREMENTS LTD.
Transducer Specialists...

+44 (0) 118 981 7339

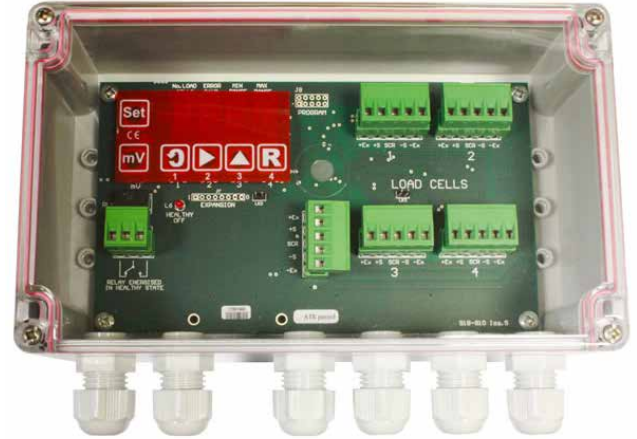
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<https://appmeas.co.uk>

LCI Load Cell Integrity Junction Box & Fault Monitoring Alarm

Key Features:

- Continuous Fault Checking & Reporting
- Immediate Alarm & Fault Diagnostics
- 5V Operation for Low Power Consumption
- Connect up to 4 Load Cells
- System Protection
- Reduces Batch Wastage
- Robust IP65 ABS Enclosure
- 3 Year Warranty



The [LCI load cell integrity junction box](#) will continuously monitor up to 4 load cells and will detect immediately any load cell operating outside its parameters. This advanced fault detection system will reduce batch wastage and costly downtime due to faulty load cells.

The LCI scans each individual load cell and will tell you which load cell has the fault and what and where the fault is, enabling fast repair work to be carried out. Types of faults monitored are: out of balance load cells, a drop in excitation voltage, a short or open circuit, bridge imbalance.

When a fault is detected the alarm LED will light up and the display will show the error codes, so you can instantly locate the affected load cell. There is also a relay output to drive a separate alarm.

The LCI is powered from the connected instruments excitation supply so does not need its own power supply. It also now supports both a 5V and 10V supply voltage enabling a lower power consumption.

Not only does the LCI continually monitor the attached load cells, it also works as a summing unit, summing the load cells connected to the junction box.

For more information about the LCI load cell integrity junction box, please speak to our [technical sales team](#). See our [full range of junction boxes](#).

Industries:

- Automotive
- Agriculture
- Silo and Weighing Industry
- Construction
- Alternative Energy
- Civil Engineering
- Lifting and Handling
- Waste Management

Applications:

- Weighing Platforms
- Vessel Weighing Systems
- Weighbridges
- Conveyor Weighing Systems
- Bridge Structure Monitoring
- Waste Management Systems
- Lifting and Handling
- Monitoring of Anchor Loads
- Truck Load Weight Monitoring
- Skip Weighing System
- Multi-Cell or Multi-Transducer Installations
- Monitoring of Building Foundations
- Force Measurement in Formula Racing
- Silo Weighing
- Measuring the Power Output of a Motor
- Weighbridges



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Specification:

Electrical	
Power Supply Voltage	4-12 Vdc (derived from host instrument)
Power Supply Current	80 mA (excluding load cell excitation current)
Load Cell Excitation 350R Load Cell	4-12 V (derived from host instrument)
Load Cell Resistance (Typically 350-700R)	300-1000 Ohms
Load Cell Sensitivity	1.0-5.0 mV/V
Number of Load Cells Selectable	1-4
Output Load (Host Input Impedance)	1M Ohms
Bandwidth (LCI Display Only)	100 Hz
Zero Temperature Coefficient (Derived from Host Instrument LCI Display Only) @ 2mV/V @ 4V Excitation	0.008 %FR/°C
Span Temperature Coefficient (Derived from Host Instrument LCI Display Only)	0.001 %FR/°C
Linearity	0.03 %FR
Scan Speed for Alarm Output (4 Cells)	40 ms
Display Range	±50 mV
Relay Contacts SPCO Current (Normally Energized)	1 A 30 Vdc or 1 A 120Vac
mV Measurement Accuracy Individual Cell (Derived from Host Instrument LCI Display Only)	±0.1 mV
Environmental	
Operating Temperature Range	-10 to +55°C
Storage Temperature Range	-40 to +95°C
Maximum Humidity	95% Maximum
IP Rating	IP65/NEMA4
Approvals	
European EMC Directive	2014/30/EU BS EN 61326 - 1:2013 BS EN 61326- 2-3: 2013

Ordering Codes:

Core Product	
LCI	Load Cell Integrity Box Supplied in IP65 ABS Enclosure with Transparent Lid
LCP	LCI OEM without Enclosure (PCB Only)



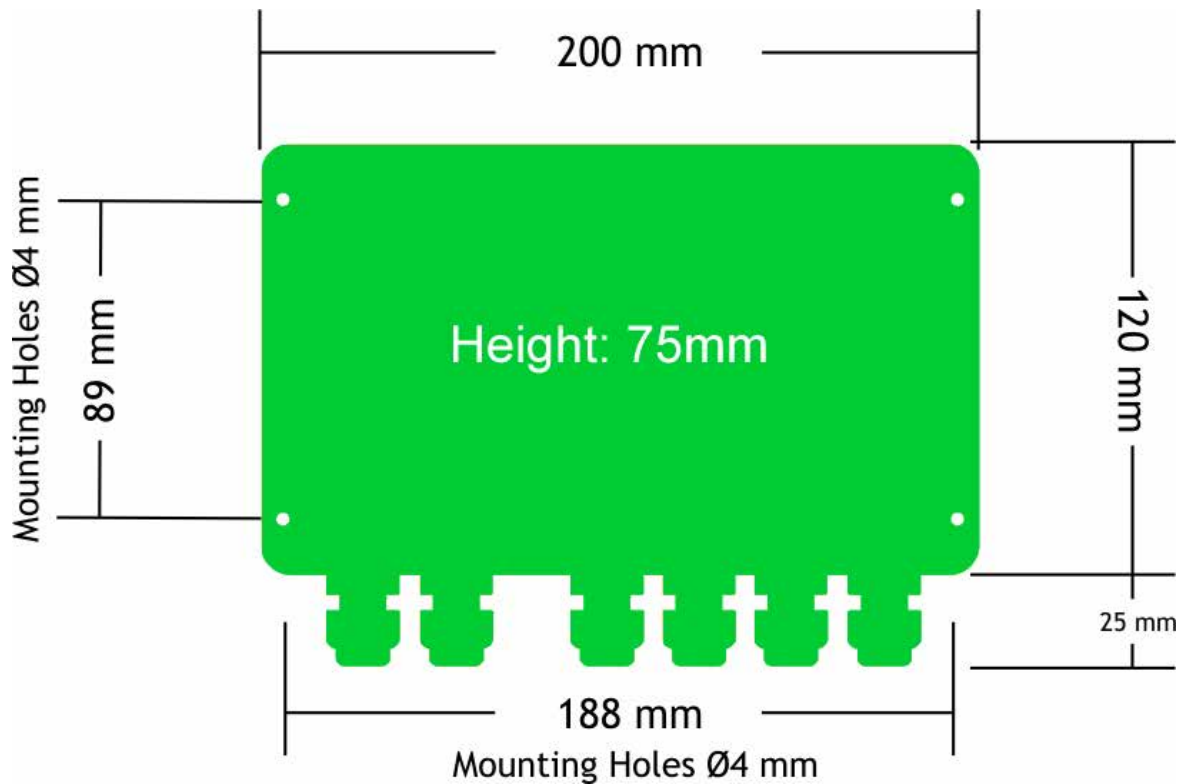
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Dimensions (mm):



Associated Products:



[TR150 Handheld Indicator](#)



[T24 Wireless Telemetry Range](#)



[Intuitive4-L Panel-Mount Indicator](#)



[DSC-USB USB Signal Digitiser](#)



[ICA Miniature Strain Gauge Amplifier](#)



[SGA Signal Conditioner/Amplifier](#)