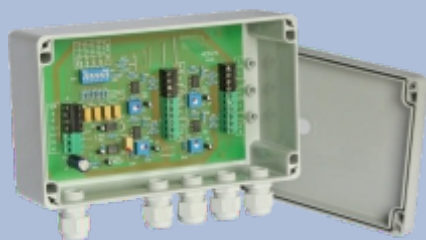




## TYPE: JBA



# JBA Active Load Cell Junction Box

## Description

The function of the JBA active load cell junction box is to enable the easy adjustment of load cell (output) manufacturing tolerances without any channel interaction, to give a summated output.

The JBA junction box is used to sum the outputs from up to four load cells to allow them to be connected to the LCA20/ADW15/SMW strain gauge indicator/controller. The individual channel gains can be set up via DIL switches and preset potentiometers to allow for two, three or four load cells.

Adjustment of the gain does not interact with the offset, and offset is preset to speed up matching of the load cell gain.

## Features

- Improves overall system accuracy in weighing systems
- Combines corner correction with load cell termination
- Simple adjustment procedure
- Robust IP65 enclosure
- Ideally suited for use with the ADW15, SMW and LCA20

## Specification

Powering	10vdc nominal, from connected instrument
Maximum current	20mA
Connection	6 wire from instrument to JBA. 4 wire from JBA to each load cell
Gain setting per channel	Variable from 0.2 to 1 by use of switch and potentiometer
Input range	0.5 to 20mV/V
90 day accuracy stability	±0.06% gain
Effect of temperature	±0.02% per degree C typical at 2.5mV/V
Field terminals	35 degree screw operated cage clamp type
Maximum cable	Size 2.5mm square
Dimensions	200 x 120 x 75mm
Environmental	Sealed to IP65 with cable entries via 5 x IP67 glands supplied fitted
Enclosure	ABS
European EMC Directive	2004/108/EC
Low Voltage Directive	2006/95/EC

Note: each load cell signal is added, therefore the output is the summation of all the load cells connected e.g. 4 x 2mV/V load cells will give an output of 8mV/V when set to x 1.

## Typical Applications

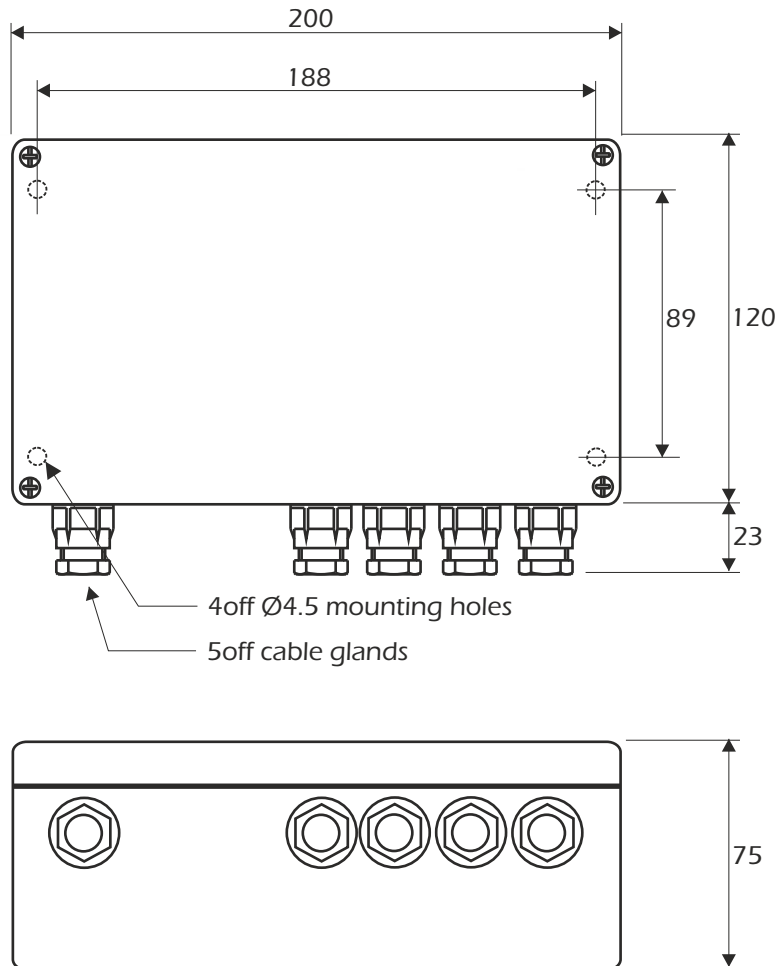
- Vessel weighing
- Platform scales
- Hopper weighing
- Conveyor weighing
- Batch weighing
- Silo weighing

## Available Options

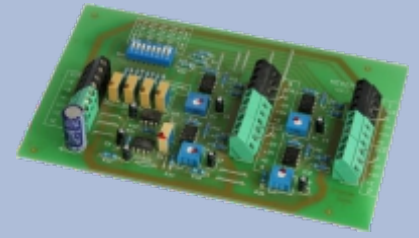
- Supply of Eurocard (100 x 160mm) PCB only, excluding case (**JPA**)
- Die cast case 200 x 120 x 80mm (**LDC**)
- Stainless steel case 200 x 160 x 85mm sealed to IP65 (**LSS**)
- IP65 ABS grey case (**LAB**)

# JBA Active Load Cell Junction Box

## Dimensions



All dimensions are in mm



www.lcmsystems.com

LCM Systems Ltd

Unit 15, Newport Business Park, Barry Way  
Newport, Isle of Wight PO30 5GY UK

Tel: +44 (0)1983 249264

sales@lcmsystems.com

www.lcmsystems.com

Due to continual product development, LCM Systems Ltd reserves the right to alter product specifications without prior notice.

Issue No. 1

Issue date: 28/02/2019

APPROVED

(unapproved if printed)