

Notes for Installation

The DSJ4 facilitates the connection of up to four load cells and DSC cards for communications to a PC or PLC using CAN or RS485 protocols.

Designed to take four DSC cards in a single enclosure, the DSJ4 offers a convenient and practical solution to the installation of digital load cells with platforms, silos and any weighing systems where connection to PC and PLC's is an essential requirement of the system.

Supplied as an OEM device 100 x 185mm PCB, it has options for fitting in an IP65 ABS case, or to a DIN rail fixture.



Photo showing the DSJ4 fitted in an optional ABS surface mounting case.

Preparing for use

For the operational and communication requirements of the DSC card, please refer to the DSC User Manual Instructions.

The DSC card is mounted on the main PCB with 3 pillars.
The D type connectors J10 & J11 and the 5 way two-part connector J9 provide the power connections and the RS485 or CAN connections.

J10 and J11 also provide a 'daisy chain' interconnect facility for multiple DSJ4 units.

J5 to J8 are two-part 4 way connectors which provide connections for the digital input and output.

J1 to J4 are 8 way two-part connectors providing connections to the strain gauge and external temperature sensor.

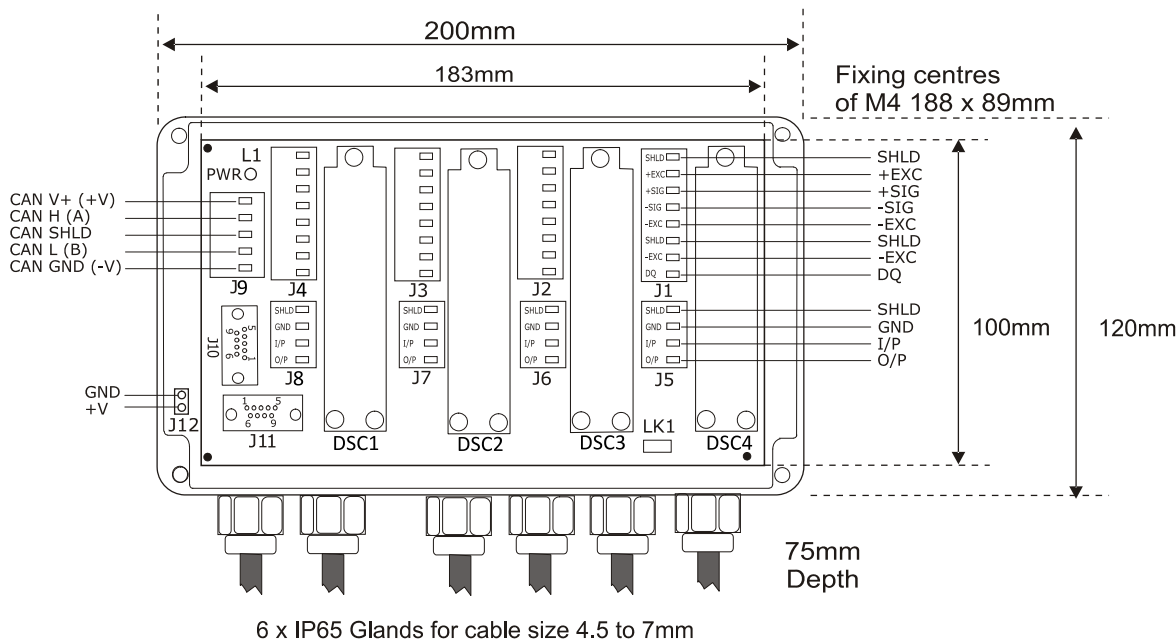
Connection details are shown on the layout diagram below.

Cable Screening: It is strongly recommended that all cable screens are connected.

A green LED L1, marked 'PWR' on the PCB provides an indication of power.

Link LK1 is used to provide a 120R terminating resistor for RS485 or CAN connections.

Mechanical dimensions inside optional case



Connectors J10 & J11					
PIN	RS485	CAN	5		
1	SHLD	CAN SHLD	6	+Vin	CAN V+
2			7		
3	-Vin	CAN GND	8	A	CAN H
4	B	CAN L	9		

Power supply specifications

Supply Voltage	5.8 to 18V dc
Power	0.5 to 1.5 watts

CE & Environmental Approvals

Storage temperature	-20 to +70°C	European EMC Directive	2004/108/EC
Operating temperature	-10 to 50°C		
Relative humidity	95% maximum non condensing	Low Voltage Directive	2006/95/EC

Cable shielding

When using J10 & J11 for communications the cable screen is connected to pin 1.



CE In the interests of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice.