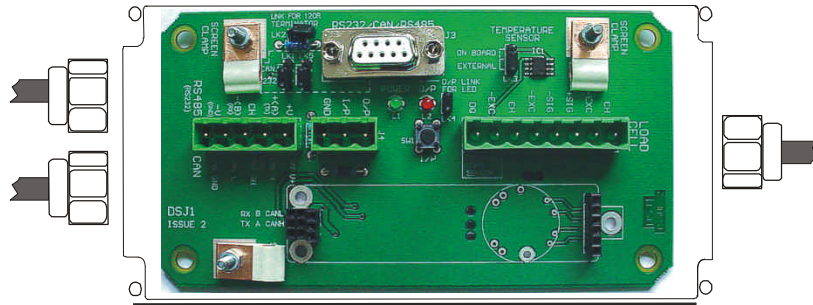


## PRELIMINARY

# DSJ1 Single Digital Strain Card PCB



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## Introduction

The function of the DSJ1 is to enable the easy connection of a load cell and a DSC Card for communications to a PC or PLC.

Designed to take one DSC Card or DCell in a single enclosure, the DSJ1 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 on a single 135 x 73mm PCB, it has options for fitting in an IP65 ABS Case, or to a DIN rail fixture.

When a DSC card or DCell is fitted to the DSJ1 PCB it will enable the connection of a load cell via a two-part connector, with a five-way two-part connector for the communications output and a D type 9 pin connector, as well as connections for digital inputs and outputs and external temperature sensor.

The communications output connection is RS232, RS485 or CAN depending on the DSC unit used.

## Features

Bus connections for communication and power supply	Push switch to simulate digital input
2 part connectors for field terminals	Option to terminate bus through 120 ohm resistor
D type 9 pin connector for easy communications connection	CAN compliant - option
Green LED power indicator	3 x screen clamps for EMC termination
Red LED digital output indicator	3 year guarantee

## Specifications

Connection	1 x 8 way 2 part terminal for load cell and temperature sensor connections (2.5mm <sup>2</sup> cable max) 1 x 5 way 2 part terminal for Digital Data and Power (2.5mm <sup>2</sup> cable max) 1 x 3 way 2 part terminal for DSC digital I/O 1 x 9 way D type connector for digital data
Dimensions	135 x 73 x 18mm PCB only
Enclosure Material	Sealed to IP65 with cable entries via IP67 glands (when supplied with option of enclosure)

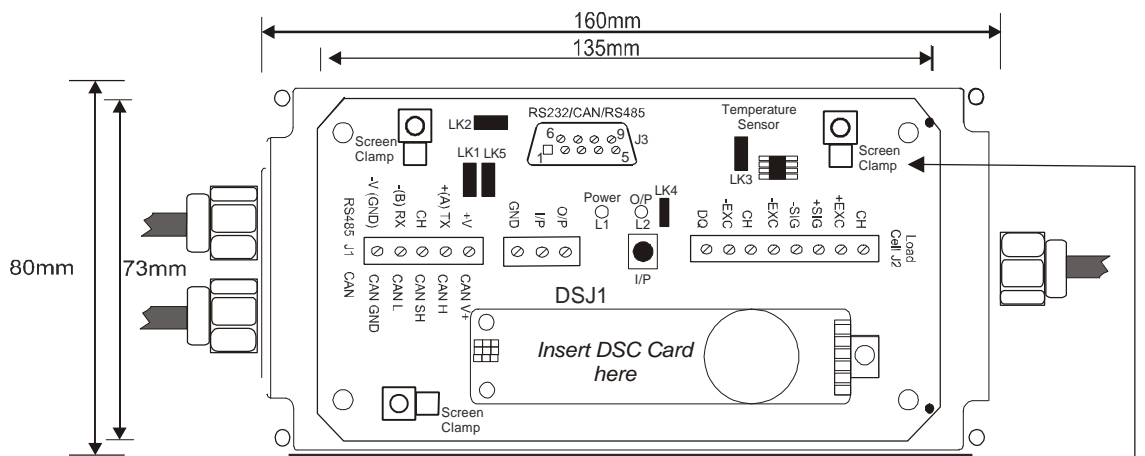
## Options

Supply of ABS enclosure  
On board temperature sensor  
Mounting alternatives: DIN rail option

**CE & Environmental Approvals**

EMC Directive 89/336/EEC		EMC Immunity	
EMC Emissions		EN 50 082-1	:1992 (Light Industrial)
EN 50 081-1	:1992 (Light Industrial)	EN 50 082-2	:1992 (Heavy Industrial)
EN 50 081-2	:1992 (Heavy Industrial)	Low Voltage Directive 73/23/EEC	amended by 93/68/EEC
		IEC 1010-1	:1990
		BSEN 610101	:1993

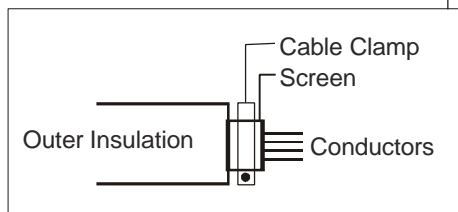
**DSJ1 in optional ABS Case - Mechanical Dimensions**



Depth 55mm

Screen Clamp: Farnell part nos 353- 8266, 853-8278 or 353-8280 depending upon cable size used.  
 3 x IP65 Gland for cable size 4.5 to 7mm  
 Fixing Centres of M4: 122 x 58mm

**Screen Clamp Detail**



Link Description	
LK1 & LK5	Select connections to D Type, RS232 or CAN/RS485
LK2	Provides 120R terminating Resistor for CAN/RS485
LK3	Selects on board temperature sensor or external device connected to J2
LK4	Connects digital output to Output LED

J1 Connector Detail		
RS485	CAN	RS232
+ V	CAN+	+V
B	CAN L	Tx (PIN 2)
SHLD	CAN SHLD	SHIELD
A	CAN H	Rx (PIN 3)
- V	CAN GND	GND (PIN 5) and -V

J3 D Type Connector Detail			
J3 PIN	RS485	CAN	RS232
2	B	CANL	Tx
3	-	-	Rx
5	Ground	GROUND	Ground
7	A	CAN H	N.C.

For RS485 Link as for CAN LK1 and LK5