

## Strain Gauge or Load Cell Digitiser Module (1 Channel)

### Features

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



### 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.

### 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

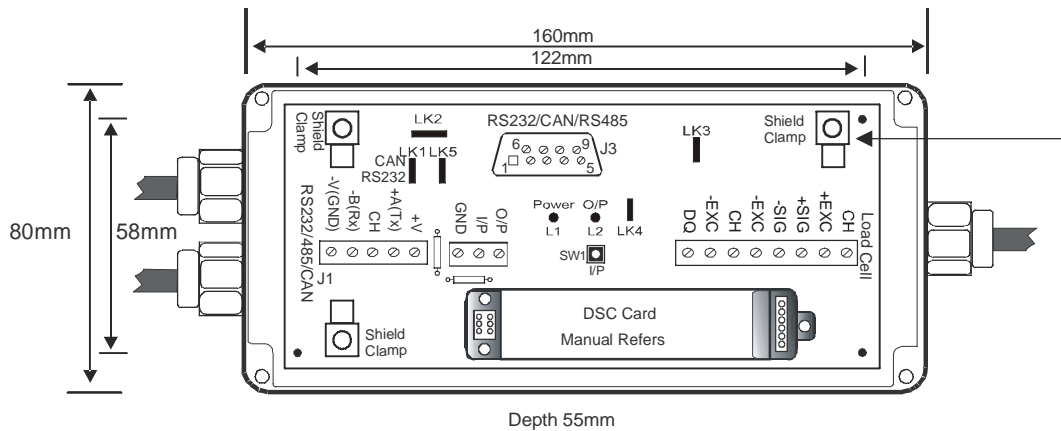
### Product Order Codes

Description	Product Code
DSJ1 (pcb only)	DSJ1
IP65 ABS Grey Case	JAB

### CE & Environmental

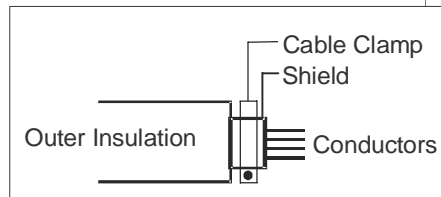
Storage temperature	-20 to +70°C	EMC Emissions	BS EN 55011:1998
Operating temperature	-10 to 50°C		
Relative humidity	95% maximum non condensing	EMC Immunity	BS EN 61000-4-3:1995
Safety/Low Voltage Directive	73/23/EEC amended by 93/68/EEC		BS EN 61000-4-3:2002 BS EN 61000-4-4:2004
EMC Directive	BS EN 61010-1:2001, IEC 1010-1-1990 89/336/EEC Basic Standard BS EN 61326:1998		BS EN 61000-4-11:2004

## Mechanical Dimensions



Shield 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

### Shield Clamp Detail



<b>Link Description</b>	Select connections to Dtype, RS232 or CAN/RS485
LK1 & LK5	Provides 120R terminating Resistor for CAN/RS485
Lk2	Selects on board temperature sensor or external device connected to J2
LK3	Connects digital output to Output LED
LK4	

J1 Connector Detail			J3 D Type Connector Detail			
RS485	CAN	RS232	J3 PIN	RS485	CAN	RS232
+ V	CAN V+	+ V	2	B	CAN L	Tx
A	CAN H	Tx	3	-	-	Rx
CH	CAN SH	CH	5	GROUND	GROUND	GROUND
B	CAN L	Rx	7	A	CAN H	N.C.
-V	CAN GND	GND and -V	-	-	-	-

For RS485 Link as for CAN LK1 and LK5



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