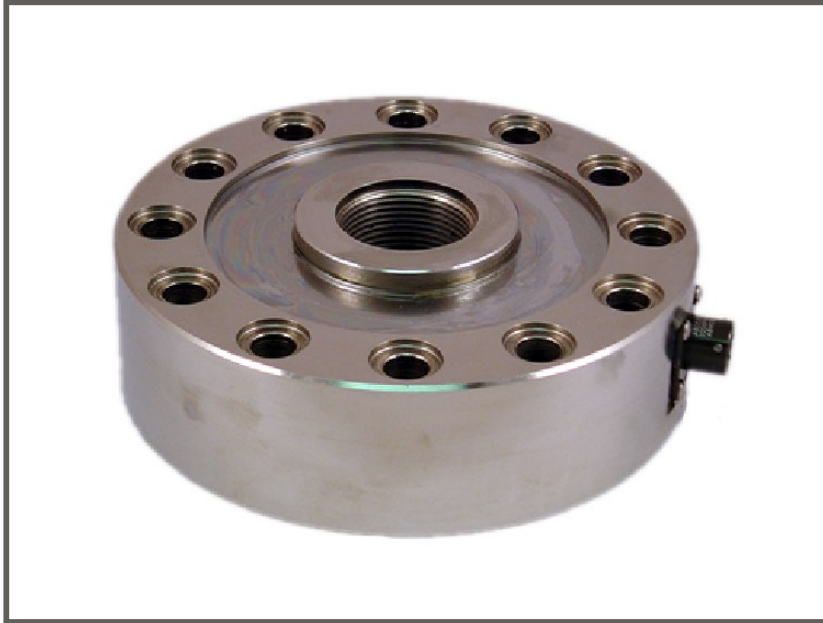


**Static Rated & Fatigue Rated  
Low Profile Tension & Compression  
PANCAKE LOAD CELL**

**DSCC  
Series**



- Capacities 5kN to 1000kN
- Stainless Steel Construction
- Low Profile Shear Design
- Low Deflection
- High Natural Frequency
- Excellent Rejection of Extraneous Forces
- Optionally Fatigue Rated to  $10^9$  Fully Reversed Full Range Cycles
- Shunt Calibration Facility
- **3 YEAR WARRANTY**

**Options Available**

Other Ranges Available on request

Higher Accuracy Versions available (consult factory)

Equivalents to other manufacturers' available

Full range of mounting options available, including:-

- Load Buttons
- Spherical Rod End Bearings
- Standard and Special Mounting Base

Different Centre Thread Sizes (consult factory)

Integral Cable Versions (consult factory)

Double Bridge Versions

**DESCRIPTION**

The DSCC series low profile pancake type load cells are suitable for both Weighing and Force Measurement applications.

Constructed from Stainless Steel to give the best performance whilst still offering a very attractive looking product.

The load cell's design provides excellent resistance to extraneous forces, such as bending, side and torsional forces.

The load cell is used widely in material and fatigue testing applications, where a low physical height is required and forces are applied axially. High frequency response is also a benefit with this load cell for dynamic force measurement applications, which is also complimented with excellent fatigue resistance.

As with all the other Applied Measurements sensors, they can be supplied complete with monitoring/control electronics and calibrated as a system (please refer to the Instrumentation datasheets).

*Transducer Specialists...*

**APPLIED MEASUREMENTS LIMITED**

3 MERCURY HOUSE - CALLEVA PARK - ALDERMASTON - BERKSHIRE - RG7 8PN - UK

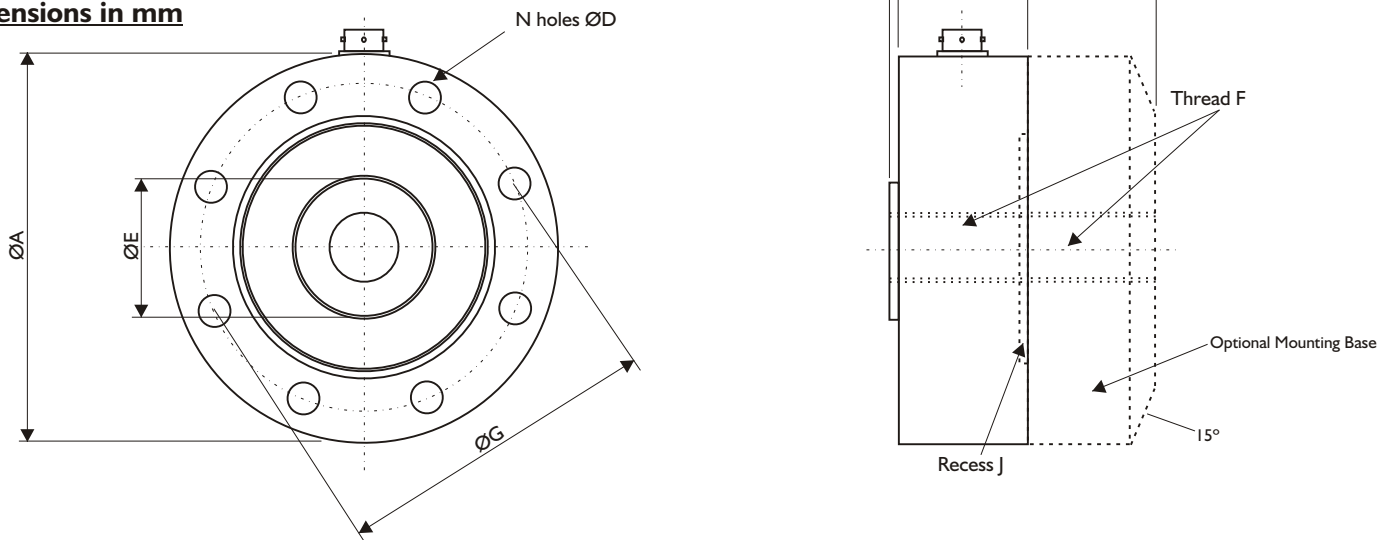
Tel: (+44) 0118 981 7339 Fax: (+44) 0118 981 9121 email: info@appmeas.co.uk Internet: www.appmeas.co.uk



# SPECIFICATION

CHARACTERISTICS	DSCC	UNITS
<b>Rated Capacities (Dynamic):</b>	±5, ±10, ±25, ±50, ±100, ±200, ±250, ±300, ±500, ±1000	<b>kN</b>
<b>Rated Output:</b>	2.0 (up to 200kN) / 2.7 nom. (250kN upwards)	<b>mV/V</b>
<b>Non-Linearity:</b>	<0.05	<b>±% of Rated Output</b>
<b>Repeatability:</b>	<0.05	<b>±% of Rated Output</b>
<b>Hysteresis:</b>	<0.05	<b>±% of Rated Output</b>
<b>Symmetry (tension/compression):</b>	<0.25	<b>% of Rated Output</b>
<b>Zero Balance:</b>	<1.0	<b>±% of Rated Output</b>
<b>Temperature Range: Operating</b>	-20 to +80	<b>°C</b>
<b>Compensated</b>	0 to +70	<b>°C</b>
<b>Temperature Effect: On Output</b>	<0.005	<b>±% of Applied Load/ °C</b>
<b>On Zero</b>	<0.005	<b>±% of Rated Capacity/ °C</b>
<b>Safe Overload:</b>	150	<b>% of Load Rating</b>
<b>Ultimate Overload:</b>	300	<b>% of Load Rating</b>
<b>Safe Sideload</b>	50	<b>% of Load Rating</b>
<b>Excitation Voltage:</b>	10 recommended (15 max.)	<b>Volts AC or DC</b>
<b>Input Impedance:</b>	700 nominal	<b>ohms</b>
<b>Output Impedance:</b>	700 nominal	<b>ohms</b>
<b>Insulation Impedance:</b>	>500	<b>Megaohms @ 100 VDC</b>
<b>Deflection at Rated Capacity:</b>	<0.1	<b>mm at Rated Load</b>
<b>Construction:</b>	Stainless Steel	
<b>Environmental Protection:</b>	IP65	
<b>Connections:</b>	6-Pin Amphenol Connector + Mating Half fitted with 3m cable	
<b>Optional Fatigue Rated Versions:</b>	1mV/V output rated to 10 <sup>9</sup> fully-reversed cycles (200kN and below) 1.8mV/V output rated to 10 <sup>8.5</sup> fully-reversed cycles (250kN upwards)	

All dimensions in mm



Range (kN)	ØA	B	C	ØD	ØE	Thread F	ØG	N	H	J
5, 10, 25, 50	107	2	33	8.5	33	M20 x 2.5	90	8 holes	35	2
100, 200, 250	155	3	45	11	60	M36 x 2	130	12 holes	48	2
300, 500, 1000	280	6	78	17	118	M64 x 6*	230	16 holes	84	4

\* If you require rod end bearings please request an M64 x 4 thread. Note that the maximum rated safe static load on this size rod-end is 689kN

**APPLIED MEASUREMENTS LIMITED**

Continuous product development may result in minor changes to published specifications.

Issue 11/11

