

Low Capacity Isometric

LOAD CELL/ FORCE SENSOR

UFI
Series



- Capacities 25grams to 1500grams
- High Output
- Low Deflection
- High Overload Capacity
- Versatile Mounting Arrangement
- Sealed to IP51
- 3 YEAR WARRANTY

DESCRIPTION

The UFI range of isometric force/load sensors is designed for the measurement of both tensile and compressive forces.

The UFI has proved to be the first choice sensor for a multitude of applications including muscular and membrane movement monitoring, yarn and fabric tension control, fluid viscosity measurement and even the measuring the force induced in butterfly wings during flight to name a few.

The UFI is very popular in applications where our forces to be measured are very small due to it's good level of accuracy, minimal deflection and flexible mounting arrangement and high overload capacity.

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

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

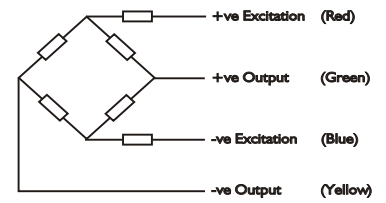
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SPECIFICATION

Wiring Schematic Diagram



CHARACTERISTICS	UFI	UNITS
Rated Capacities:	25, 55, 110, 220, 450, 1000, 1500	grams
Rated Output:	4 nominal	mV/V
Accuracy:	<0.30	±% of Rated Output
Repeatability:	<0.10	% of Rated Output
Zero Balance:	<±2	±% of Rated Output
Temperature Range Operating:	-40 to +80	°C
Compensated:	+10 to +60	°C
Temperature Effect On Output:	<0.05	±% of Applied Load/ °C
On Zero:	<0.05	±% of Rated Output/ °C
Maximum Overload:	2500 (all capacities)	grams
Excitation Voltage:	10 maximum	Volts DC
Bridge Impedance:	725 nominal	Ohms
Insulation Impedance:	> 100	Megaohms @ 50Vdc
Deflection:	<±0.03	mm
Environmental Protection:	IP51	
Electrical Connections:	via 4off PTFE insulated solder terminals	

All dimensions in mm

