Model 98001

Sensortronics

VISHAY PRECISION GROUP

Low Profile Universal Load Cell

FEATURES

- Capacity: 0.5 - 100t
- Alloy steel construction
- Universal load cell
- Integrated overload protection (in compression)
- Tension and compression loading

OPTIONAL FEATURES

- Load cell without base mounting plate (for compression applications)
- Metric and imperial threads

DESCRIPTION

Model 98001 is a universal alloy steel shear beam load cell ideal for testing machine applications employing both tension and compression loading.This shear beam design load cell provides excellent immunity to impact and side forces. This load cell includes integrated overload protection for compression loading applications.

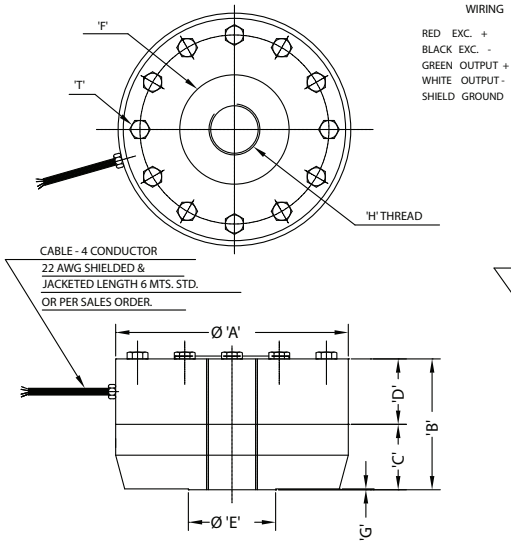
APPLICATIONS

- Universal testing machines

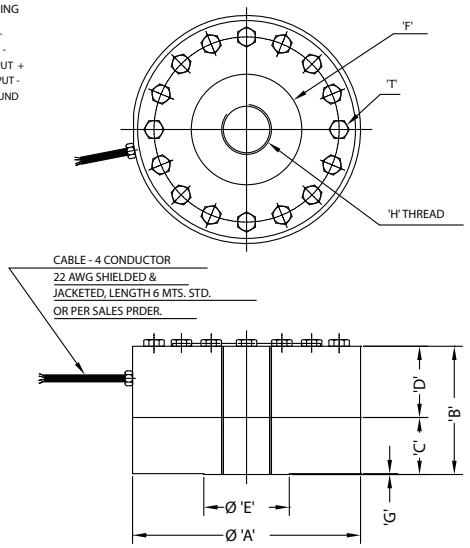
OUTLINE DIMENSIONS in millimeters

CAPACITY	Ø A	B	C	D	Ø E	Ø F	G	H THREAD	T
500kg, 1.0, 2.0, 3.0, 5.0 tons	105.0	66.40	35.00	31.4	34.0	34.0	7.80	M16 x 1.5	M8, 12 PLCS ON PCD 90.0
10, 15, 20, 25, 30 tons	154.0	89.00	44.50	44.5	57.0	63.0	0.76	M30 x 2.0	M10, 12 PLCS ON PCD 130.0
40, 50, 60 tons	203.0	115.06	51.56	63.5	76.0	95.5	0.76	1 3/4"-12 UNF-2B	M12, 16 PLCS ON PCD 165.0
100 tons	279.0	166.10	77.20	88.9	114.0	122.0	0.80	M72 x 2.0	M16, 16 PLCS ON PCD 221.4

500 Kg-30.0 tons



40.0-100.0 tons



SPECIFICATIONS

PARAMETER	VALUE	UNIT
Rated output-R.O.	2.0	mV/V
Rated output tolerance	10	± %FSO
Zero balance	1	± %FSO
Combined error	< 0.10	± %FSO
Non-linearity	< 0.050	± %FSO
Hysteresis	< 0.050	± %FSO
Non-repeatability	< 0.020	± %FSO
Creep error (30 minutes)	< 0.002	± %FSO
Temperature effect on zero	< 0.001	± %/°C
Temperature effect on output	0.001	± %/°C
Operating temperature range	-20 TO +70	°C
Maximum safe central overload	150	%FSO
Ultimate central overload	300	%FSO
Excitation, recommended	10	Vdc
Excitation, maximum	15	Vdc
Input impedance	699-750	Ω
Output impedance	699-750	Ω
Insulation resistance at 50 VDC	>1000	MΩ
Material	Alloy steel with electroless nickel plated	
Environmental protection	IP67	