Model 3132

Tension/Compression Pancake Load Cell



DESCRIPTION

These general purpose designs have exceptional structural capability to withstand extraneous loads, such as torque, bending moments, and side loads.

Available in capacities of 500 lb to 5000 lb, they offer maximum performance and enhanced accuracy.

Minimum deflection and compactness make these generalpurpose load cells easy to install and use.

FEATURES

- 500 lb to 5000 lb range
- Low sensitivity to extraneous loads
- Low deflection
- Rugged welded construction
- Built-in temperature compensation

Model 3132

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Load range ¹	500, 1000, 2000, 3000, 5000 lb
Non-linearity	±0.1 % of rated output
Hysteresis	±0.1 % of rated output
Repeatability	±0.05 % of rated output
Output @ rated capacity	3 mV/V ±0.25 % (nominal)
Operation	Tension/compression
Resolution	Infinite
Standard calibration	Tension (+) and compression (-)

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure		
Temperature, operating	-54 °C to 93 °C [-65 °F to 200 °F]		
Temperature, compensated	21 °C to 77 °C [70 °F to 170 °F]		
Temperature effect, zero	±0.002 % of rated output/°F		
Temperature effect, output	±0.002 % of reading/°F		

ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Strain gage type	Foil
Excitation (maximum)	20 Vdc or Vac RMS
Insulation resistance	> 5000 mOhm @ 50 Vdc
Bridge resistance (tolerance)	350 ohm
Number of bridges	1 or 2
Zero balance	±1.0 %
Electrical termination	PT02E-10-6P mates with PT06W-10-6S

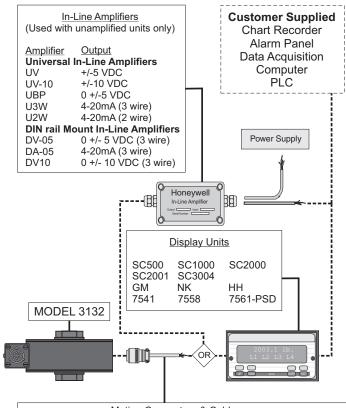
MECHANICAL SPECIFICATIONS

Characteristic	Measure		
Static overload capacity	150 % of nominal capacity		
Material	Carbon steel		
Natural frequency	See table		

WIRING CODES

Cable	
Red	(+) excitation
Black	(-) excitation
Green	(+) output
White	(-) output

TYPICAL SYSTEM DIAGRAM



Mating Connectors & Cables

023-LW181-023-LF Mating Connector

7205-76-XX* Mating connector & 6 conductor cable

(unamplified unit with sense leads but not shunt cal) 7205-75-XX** Mating connector & 4 conductor cable

(unamplified unit without sense leads but not shunt cal)

7205-83-XX* Mating connector & 6 conductor cable

(for connection to instrument 7541)

7205-82-XX** Mating connector & 4 conductor cable (for connection to instrument 7541)

* XX represents length in feet 100ft maximum

** XX represents length in feet 20ft maximum

Honeywell

Tension/Compression Pancake Load Cell

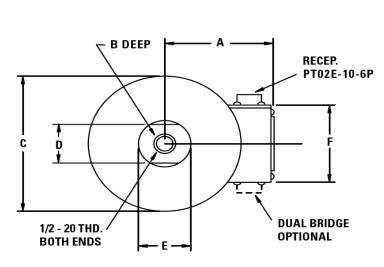
NATURAL FREQUENCY

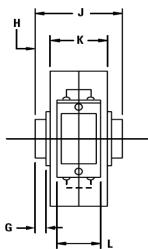
Nominal I capacity I			Static extraneous load limits				
lb	N	Static over- load capacity (% of nominal capacity)	Shear F _x or F _y (lb)	Bending M _x or M _y (lb-in)	Torque M _z (lb-in)	Deflection at nominal load limit (in)	Ringing fre- quency (Hz)
500	2K	150	1400	2800	1100	0.005	1600
1K	5K	150	2000	3900	1100	0.005	2000
2K	10K	150	2800	5000	1100	0.005	3200
3K	15K	150	3400	5500	1100	0.005	4100
5K	20K	150	4200	5500	1100	0.005	5000

MOUNTING DIMENSIONS

Model	A cm [in]	B cm [in]	C cm [in]	D cm [in]	E cm [in]	F cm [in]
3132	6,65 [2.62]	1,60 [0.63]	8,89 [3.50]	2,54 [1.0]	3,02 [1.19]	4,45 [1.75]

G cm [in]	H cm [in]	J cm [in]	K cm [in]	L cm [in]
0,64 [0.25]	8,70 [0.34]	5,08 [2.0]	3,33 [1.31]	2,54 [1.0]





SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com Tension/Compression Pancake Load Cell

NOTES

1. This unit calibrated to Imperial (non-Metric) units.

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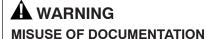
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 DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

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- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

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008624-1-EN IL50 GLO May 2008

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