Model 3108

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. This low-range cell has built-in temperature compensation.

Available in capacities of five and ten pounds, they offer maximum performance and enhanced accuracy.

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

FEATURES

- 5 lb to 10 lb range
- 0.05 % accuracy
- Low sensitivity to extraneous loads
- Low deflection

Model 3108

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Load range ¹	5, 10 lb
Non-linearity	±0.01 % of rated output
Hysteresis	±0.01 % of rated output
Repeatability	±0.05 % of rated output
Output @ rated capacity	2 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

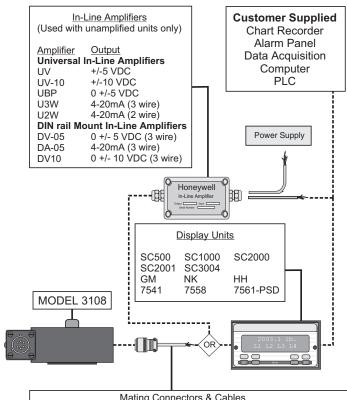
MECHANICAL SPECIFICATIONS

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

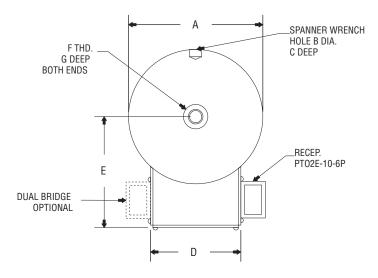
NATURAL FREQUENCY

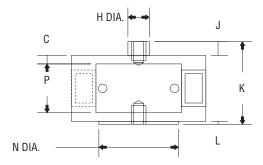
Nominal load I capacity F _z	imit		Static extraneo	ous load limits			
lb	N	Static over- load capacity (% of nominal capacity)	Shear F _x or F _y (lb)	Bending M_x or M_y (lb-in)	Torque M _z (lb-in)	Deflection at nominal load limit (in)	Ringing fre- quency (Hz)
5	20	150	30	30	3	0.005	500
10	50	150	40	40	4	0.005	900

MOUNTING DIMENSIONS

Model	A cm [in]	B cm [in]	C cm [in]	D cm [in]	E cm [in]	F cm [in]
3108	6,98 [2.75]	0,55 [0.22]	0,32 [0.13]	4,44 [1.75]	5,60 [2.22]	- [1/4-28]
	'			·	-	
G cm [in]	H cm [in]	J cm [in]	K cm [in]	L cm [in]	N cm [in]	P cm [in]

NOTE: the 3108 mounting configuration is similar to the 3397.





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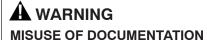
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- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

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