Model 3167



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 25 lb to 300 lb, they offer maximum performance and enhanced accuracy.

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

FEATURES

- Up to 0.05 % accuracy
- 25 lb to 300 lb range
- Integral cable (standard)
- Low sensitivity to extraneous loads
- Low deflection
- Built-in temperature compensation

Model 3167

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Load range ¹	25, 50, 100, 200, 300 lb
Non-linearity	±0.05 % of rated output
Hysteresis	±0.05 % of rated output
Repeatability	±0.02 % 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
Zero balance	±5.0 %
Electrical termination	15 ft of Belden 8723 four-conductor shielded cable

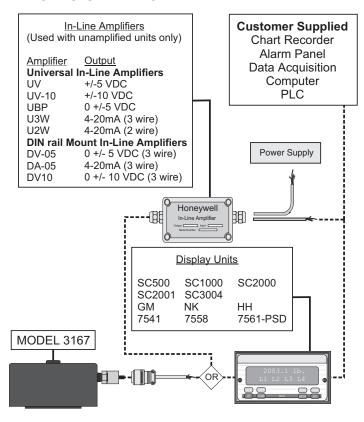
MECHANICAL SPECIFICATIONS

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



Honeywell

Tension/Compression Pancake Load Cell

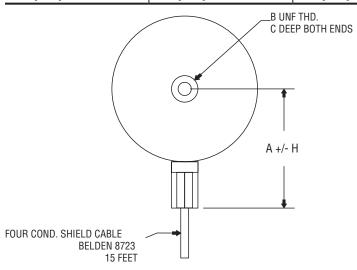
NATURAL FREQUENCY

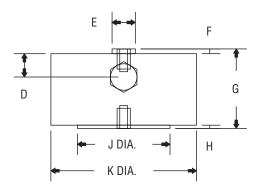
Nominal load capacity F _z	limit		Static extraneous load limits				
lb	N	Static over- load capacity (% of nominal capacity)	Shear F _x or F _y (lb)	Bending M _x or M _y (lb-in)	Torque M _z (lb-in)	Deflection at nominal load limit (in)	Ringing frequency (Hz)
25	125	150	150	150	40	0.003	2100
50	200	150	150	150	40	0.003	2800
100	500	150	250	180	40	0.003	3800
200	1K	150	250	180	40	0.003	5400
300	1.5K	150	250	180	40	0.003	7000

MOUNTING DIMENSIONS

Model	A cm [in]	B cm [in]	C cm [in]	D cm [in]	E cm [in]
3167	5,72 [2.25]	- [1/4-28]	0,95 [0.38]	1,10 [0.44]	1,10 [0.44]

F cm [in]	G cm [in]	G cm [in]	J cm [in]	K cm [in]
0,24 [0.09]	3,80 [1.50]	0,16 [0.06]	4,44 [1.75]	6,98 [2.75]





SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com Model 3167 Tension/Compression Pancake Load Cell

NOTES

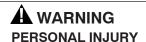
1. This unit calibrated to Imperial (non-Metric) units.

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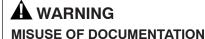
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- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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