Model 3632

Compression Donut Load Cell



DESCRIPTION

Model 3632 Compression Donut Load Cell features a smooth thru-hole design for use in applications which require the load structure to pass through the cell. The hollow load cells are

available for compression only loads in capacities of 25K, 50K and 100K lbs. For optimum performance, this load cell must be mounted between load surfaces which are flat and parallel.

FEATURES

- 25000 lb to 100000 lb range
- Thru-hole design
- Compact column construction
- mV/V output
- 0.15 % linearity

Model 3632

PERFORMANCE SPECIFICATIONS

Characteristic	Measure		
Load range ¹	25000, 50000, 100000 lb		
Non-linearity	±0.15 % of rated output		
Hysteresis	±0.15 % of rated output		
Repeatability	±0.15 % of rated output		
Output @ rated capacity	2 mV/V (nominal)		
Operation	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, 25K lb, 50K lb	480 ohm
Bridge resistance, 100K lb	240 ohm
Number of bridges	1
Zero balance	±1.0 %
Electrical termination	PT02E-10-6P

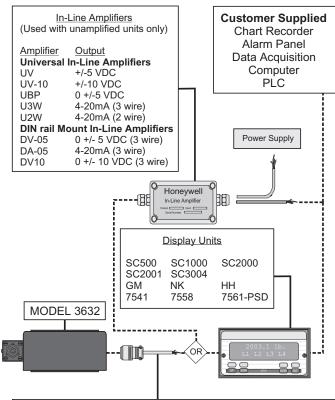
MECHANICAL SPECIFICATIONS

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

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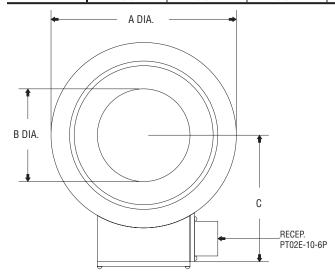
Compression Donut Load Cell

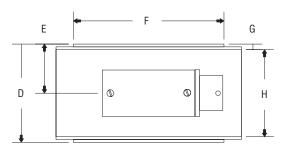
NATURAL FREQUENCY

Nominal load limit capacity F _z			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)
25K	125K	150	2750	18K	3K	0.005	5000
50K	200K	150	5500	36K	13K	0.005	7000
100K	500K	150	13K	91K	27K	0.005	10000

MOUNTING DIMENSIONS

Model	A cm [in]	B cm [in]	C cm [in]	D cm [in]	E cm [in]	F cm [in]	G cm [in]	H cm [in]
3632	10,16 [4]	5,08 [2]	7,62 [3]	5,08 [2]	2,54 [1]	8,26 [3.25]	0,15 [0.06]	4,78 [1.88]





SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com Model 3632 Compression Donut Load Cell

NOTES

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

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

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

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