Honeywell

Model 101

Load Cell



DESCRIPTION

Model 101 load cells is engineered to measure bending forces and still achieve an impressive 0.02 % accuracy. Small dimensions allow easy unit integration into existing systems. Model 101 uses foil gages and is available for load ranges from 50 grams to 1000 pounds.

FEATURES

- 50 kg to 1000 kg range
- ±0.02 % accuracy
- Integral cable
- Cost efficient
- One-piece, nickel-plated alloy steel construction



Model 101

PERFORMANCE SPECIFICATIONS

Characteristic	Measure	
Load ranges ³	50, 100, 250, 500, 1000 kg	
Accuracy	±0.02 % full scale	
Output	2 mV/V (nominal)	
Creep (max.)	±0.02 % full scale (30 minutes)	

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure	
Temperature, operating	-30 °C to 70 °C [-22 °F to 158 °F]	
Temperature, compensated	-20 °C to 55 °C [-4 °F to 130 °F]	
Temperature effect, zero	0.02 % full scale/10 °C	
Temperature effect, span	0.02 % full scale/10 °C	

ELECTRICAL SPECIFICATIONS

Characteristic	Measure	
Strain gage type	Bonded foil	
Excitation (calibration)	10 Vdc to 12 Vdc	
Excitation (max.)	15 Vdc	
Insulation resistance	≥5000 mOhm	
Bridge resistance (tolerance) - input resistance	400 ohm ±10 ohm (nominal)	
Bridge resistance (tolerance) - output resistance	352 ohm ±2 ohm (nominal)	
Zero balance (tolerance)	±1 % full scale	
Electrical termination (std)	3 m flying leads	

MECHANICAL SPECIFICATIONS

Characteristic	Measure	
Maximum allowable load	150 % full scale ¹	
Material	Nickel plated alloy steel	
Deflection	≤ 2 mm	

WIRING CODES

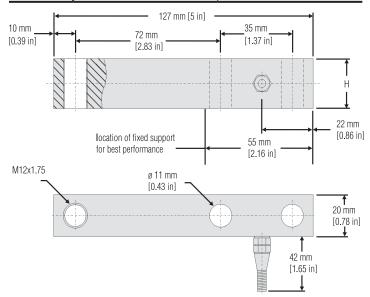
Cable	
Red	(+) supply
Black	(-) supply
Green	(+) output
White	(-) output
Large black	shield

RANGE CODES

Range Codes	Range
LF	50 kg
LH	100 kg
LL	250 kg
LN	500 kg
LQ	1000 kg

MOUNTING DIMENSIONS

Load (kg)	H mm [in]	Recommended bolt torque (N-m)
50 to 2250	18 [0.71]	60
500, 1000	24 [0.94]	60

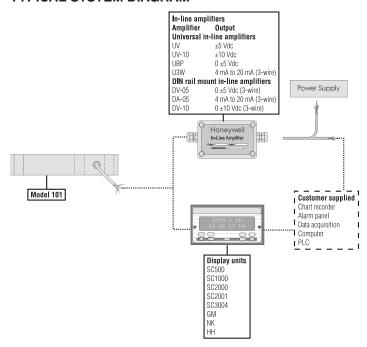


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NOTES

- Allowable maximum loads maximum load to be applied without damage².
- Without damage loading to this level will not cause excessive zero shift of performance degradation. The user must consider fatigue life for long term use and structural integrity. All structurally critical applications (overhead loading, etc.) should always be designed with safety redundant load paths.
- 3. This unit is calibrated to Metric (non-Imperial) units.

TYPICAL SYSTEM DIAGRAM



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.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

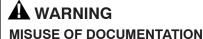
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 DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

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



- 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.

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

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