

Low Profile Platform Load Cell

FEATURES

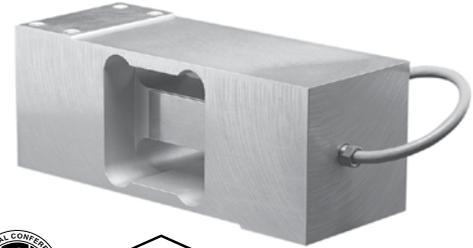
- Rated capacities of 100 to 2000 pounds
- Unique shear beam design—aluminum construction
- Moment-compensated design for minimal sensitivity to moments induced by off-center loading
- Ideal for situations exceeding the capabilities of similar “brick” design load cells
- Trade certified for NTEP Class III:5000 divisions; Class IIII:10000 divisions and OIML R60 3000 divisions
- *Sensorgage™* sealed to IP67 standards
- Factory Mutual System Approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!)
- Also available in stainless steel

APPLICATIONS

- Single-point platform scales
- Belt conveyor scales
- Bench and counting scales
- Checkweighing scales
- Hopper scales and netweighing

DESCRIPTION

Model 60060 is a single point load cell designed for direct mounting of large platforms.



The product is a cost-effective load cell for use on counting, weighing, bench or floor scale products.

This high accuracy load cell is approved to OIML R60, NTEP and other stringent approval standards. Suitable for use in hazardous environments, these load cells can be provided with European approval to EEx ia IIC T4 and are FM approved to Class I, II, III, Division I.

A special humidity-resistant protective coating assures long term stability over the entire compensated temperature range.

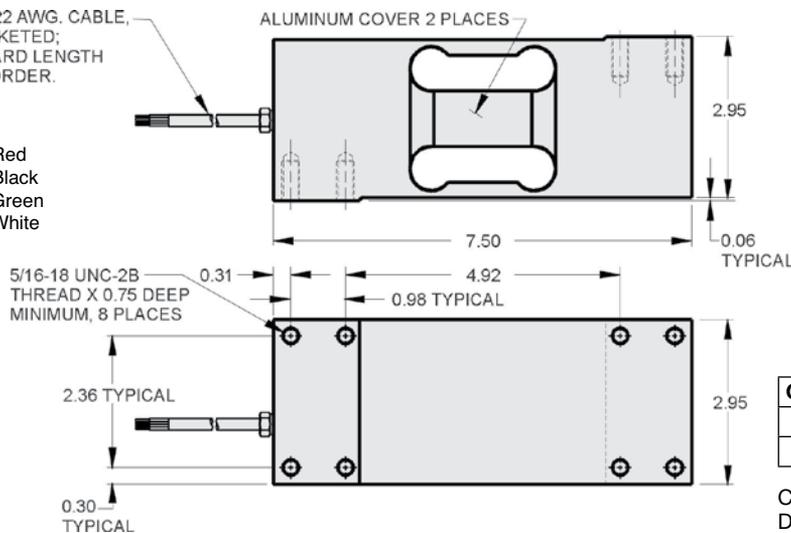
The two additional sense wires, sample the bridge supply voltage at the load cell. Complete compensation of change in the lead wires resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

OUTLINE DIMENSIONS in inches

4 CONDUCTOR; 22 AWG. CABLE, SHIELDED & JACKETED; 10 FOOT STANDARD LENGTH OR PER SALES ORDER.

Wiring

- + Excitation Red
- Excitation Black
- + Output Green
- Output White



Capacity	Deflection	Weight
100-250	0.010	6.0
500-2k	0.006	6.0

Capacities are in pounds. Deflection is ±10%. Certified drawings are available.

Low Profile Platform Load Cell

SPECIFICATIONS				
PARAMETER	VALUE			UNIT
Rated capacity—R.C. (E_{max})	100, 250, 500, 750, 1K, 2K			lbs
NTEP/OIML accuracy class	NTEPIIIL	Standard	OIML R60*	
Maximum no. of intervals (n)	10,000 multiple	—	3000	
Y = E_{max}/V_{min}	See NTEP Cert. No. 98-038			Maximum available
Rated output—R.O.	2.0			mV/V
Rated output tolerance	±10			±% mV/V
Zero balance	1.0			±% FSO
Combined error	0.02	0.03	0.02	±% FSO
Non-repeatability	0.010	0.015	0.010	±% FSO
Creep error (30 minutes)	0.03	0.05	0.017	±% of applied load
Temperature effect on zero	0.0010	0.0015	0.0010	±% FSO/°F
Temperature effect on output	0.0008	0.0008	0.0007	±% of load/°F
Compensated temperature range	14 to 104 (–10 to 40)			°F (°C)
Operating temperature range	0 to 150 (–18 to 65)			°F (°C)
Storage temperature range	–60 to 185 (–50 to 85)			°F (°C)
Safe sideload	100			% of R.C.
Safe overload	300			% of R.C.
Sideload rejection ratio	500:1			
Excitation, recommended	10			VDC or VAC RMS
Excitation, maximum	15			VDC or VAC RMS
Input impedance	400 nominal –20/+0			Ω
Output impedance	350 –1/+5			Ω
Sealing	IP67			
Material	Aluminum**			
Moment compensation	250–1k lbs	2k lbs		
Moment sensitivity	≤0.005	≤0.005		% of applied load/inch
Maximum moment	10 x capacity	10000		lbs-inches
Platform size	30 x 30	30 x 30		inches

* 100 lbs is not approved by OIML

** Stainless steel also available

FSO—Full Scale Output

All specifications subject to change without notice.



Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.