

Aluminum High Capacity Single-Point Load Cell

FEATURES

- Capacities 50–1500 kg
- Aluminum construction
- Single-point 800 x 800 mm platform
- OIML R60 and NTEP approved
- IP65 protection
- Available with metric and UNC threads
- **Optional**
 - EEx ia IIC T4 hazardous area approval
 - FM and IECEx approvals available
 - IP67 option available



APPLICATIONS

- Large platform scales
- Hanging scales
- Check weighing

DESCRIPTION

The Model 1250 is a single-point load cell designed for direct mounting of large platforms.

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

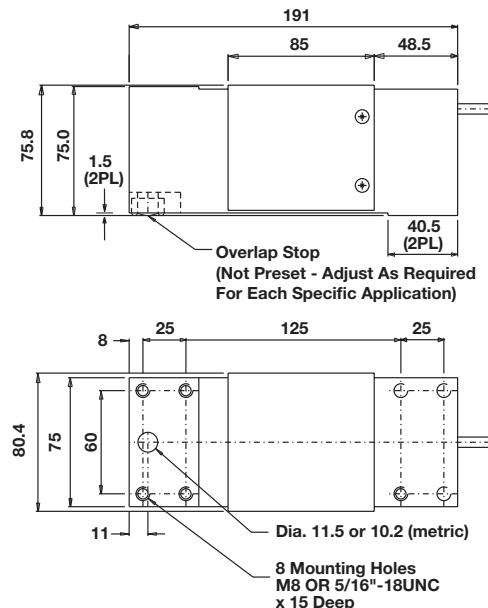
This high accuracy load cell is approved to OIML R60, NTEP and other stringent approval standards. Suitable

for use in hazardous environments, this load cell 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 millimeters

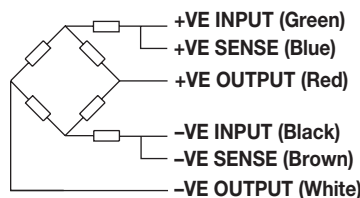


Aluminum High Capacity Single-Point Load Cell

SPECIFICATIONS				
PARAMETER	VALUE			UNIT
Rated capacity—R.C. (E _{max})	50, 75, 100, 150, 200, 250, 300, 500, 635, 750, 1000, 1500			kg
NTEP/OIML accuracy class	NTEP	Non-Approved	C3*	
Maximum no. of intervals (n)	5000 single	1000	3000	
Y = E _{max} /V _{min}	10000	1400	10000	Max. available
Rated output—R.O.	2.0			mV/V
Rated output tolerance	0.2			± mV/V
Zero balance	0.2			± mV/V
Zero return, 30 min.	0.0250	0.0300	0.0170	±% of applied load
Total error (per OIML R60)	0.0200	0.0500	0.0200	±% of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	±% of applied load/°C
Eccentric loading error	0.0033	0.0050	0.0033	±% of rated load/cm
Temperature range, compensated	-10 to +40			°C
Temperature range, safe	-20 to +70			°C
Maximum safe central overload	150			% of R.C.
Ultimate central overload	300			% of R.C.
Excitation, recommended	10			VDC or VAC RMS
Excitation, maximum	15			VDC or VAC RMS
Input impedance	415±15			Ω
Output impedance	350±3			Ω
Insulation resistance	>5000			MΩ
Cable length	3.0			m
Cable type	6-wire, braided, Polyurethane, floating screen			Standard
Construction	Plated (anodized) aluminum			
Environmental protection	IP65**			
Platform size (max)	800 x 800***			mm
Recommended torque	Up to 1000 kg: 16.0 1500 kg: 32.0			N*m

* 50% utilization
 3500 divisions also available
 ** Available also in IP67
 *** 635–1500 kg capacities: platform size 600 x 600 mm
 All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM
 (Balanced temperature compensation)





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.