

# Aluminum High Capacity Single Point Load Cell



## FEATURES

- Capacities 50 - 1500 kg
- Aluminum construction
- Single point 600 x 600 mm platform
- OIML R60 and NTEP approved
- IP65 protection
- Available with metric and UNC threads

## OPTIONAL FEATURES

- EEx ia IIC T4 hazardous area approval
- FM approval available
- IP67 option available

## DESCRIPTION

Model 1250 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 longterm stability over the entire compensated temperature range.

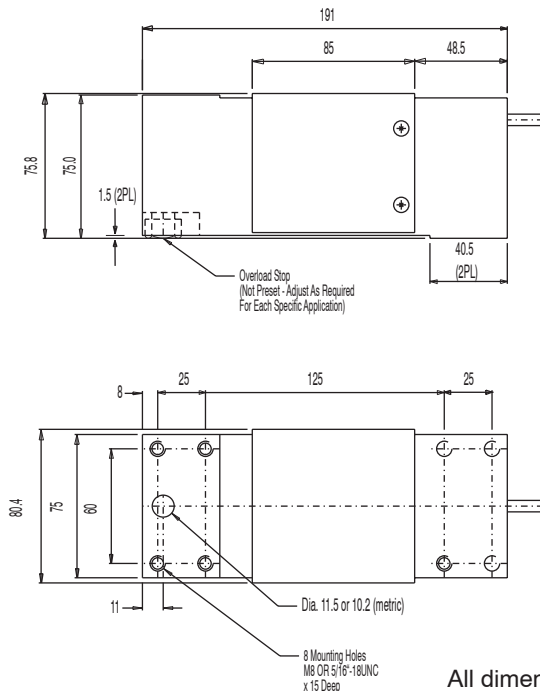
The two additional sense wires, sample the bridge supply voltage at the load cell. Complete compensation of change on the in the lead wires resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

## APPLICATIONS

- Large platform scales
- Hanging scales
- Check weighing

## OUTLINE DIMENSIONS in millimeters

Outline Dimensions All Capacities



All dimensions in mm

# Model 1250

Vishay Tedeo-Huntleigh Aluminum High Capacity Single Point Load Cell



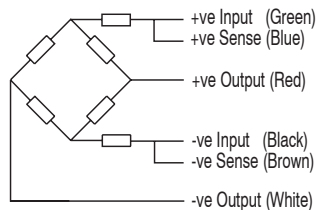
## SPECIFICATIONS

PARAMETER	VALUE			UNITS
	NTEP	Non Approved	C3*	
NTEP/OIML Accuracy class				
Maximum no. of intervals (n)	5000 single	1000	3000	
Rated capacity-R.C. ( $E_{max}$ )	50, 75, 100, 150, 200, 250, 300, 500, 635, 750, 1000, 1500			kg
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
$Y = E_{max}/V_{min}$	15,000	1,400	10,000	
Temperature effect on output	0.0010	0.0300	0.0010	± % of applied load/°C
Eccentric loading error	0.0049	0.0085	0.0049	± % of rated load/cm
Temp. range, compensated	-10 to +40			°C
Temp. 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	385 ± 15			Ohms
Output impedance	350 ± 3			Ohms
Insulation resistance	> 2000			Mega-Ohms
Cable length	3.0			m
Cable type	6 wire, braided, Polyurethane, floating screen			Standard
Construction	Plated (anodized) Aluminum			
Environmental protection	IP65 **			
Platform size (max)	600 x 600			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

### Wiring Schematic Diagram



BALANCED TEMPERATURE  
COMPENSATION

## VISHAY TRANSDUCERS (VT) SALES OFFICES

### VT Americas Covina, CA

PH: +1-626-858-8899  
FAX: +1-626-332-3418  
vt.us@vishaymg.com

### VT Canada Toronto

PH: +1-416-251-2554  
FAX: +1-416-251-2690  
vt.can@vishaymg.com

### VMG UK Basingstoke

PH: +44-125-646-2131  
FAX: +44-125-647-1441  
vt.uk@vishaymg.com

### VT Sweden Karlskoga

PH: +46-586-630-00  
FAX: +46-586-630-99  
vt.se@vishaymg.com

### VMG Germany Heilbronn

PH: +49-7131-3901-260  
FAX: +49-7131-3901-2666  
vt.de@vishaymg.com

### VMG France Chartres

PH: +33-2-37-33-31-20  
FAX: +33-2-37-33-31-29  
vt.fr@vishaymg.com

### VMG Iberica Madrid

PH: +34-91-7218890  
FAX: +34-91-7219056  
vt.es@vishaymg.com

### VMG Israel Netanya

PH: +972-9-863-8888  
FAX: +972-9-863-8800  
vt.il@vishaymg.com

### VT China Tianjin

PH: +86-22-2835-3503  
FAX: +86-22-2835-7261  
vt.prc@vishaymg.com

### VT Taiwan\* Taipei

PH: +886-2-2696-0168  
FAX: +886-2-2696-4965  
vt.roc@vishaymg.com  
\*Asia except China



## Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.