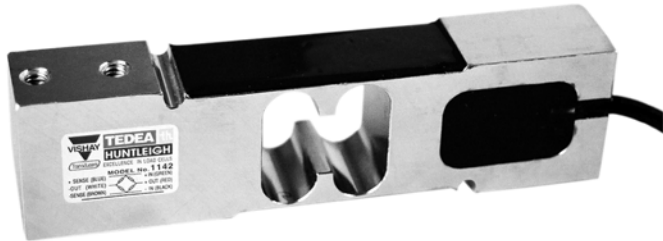


Single Point Stainless Steel Load Cell



FEATURES

- Capacity range: 10 to 150 kg
- Stainless steel construction
- Single point 400 x 400 mm platform
- Sealed to IP67
- Compact size: only 40 mm high
- OIML approved to C3 (20 - 100 kg)
- Choice of mounting threads: 1/4-20 UNC or M6 x 12
- Six wire cable (sense circuit)

OPTIONAL FEATURES

- EEx ia IIC T4 - ATEX hazardous area approval
- Grounded version includes shield wire in load cell cable



DESCRIPTION

Model 1142 is a stainless steel single point load cell suitable for direct mounting with platform, bench, counting, and a wide range of other scale applications. Small physical size, combined with high accuracy and low cost, makes 1142 load cells the perfect choice for new or retrofit scale construction.

A humidity-resistant protective coating assures stable operation in damp environments over the entire compensated range and conforms to IP67 (IEC 60529).

Also available is an ATEX 2G EEx ia IIC T4 approved version for hazardous areas.

The six-wire cable includes two sense wires that compensate for changes in lead resistance due to temperature changes and cable extension.

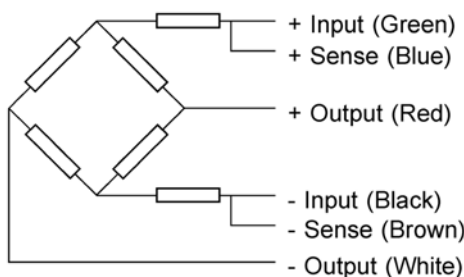
Model 1142 options offer a choice of bolt threads, 1/4-20 UNC or M6 x 12, and a grounded version that includes a "shield" wire in the load cell cable.

APPLICATIONS

- Platform scales
- Bench scales
- Counting scales
- Grocery scales

OUTLINE DIMENSIONS

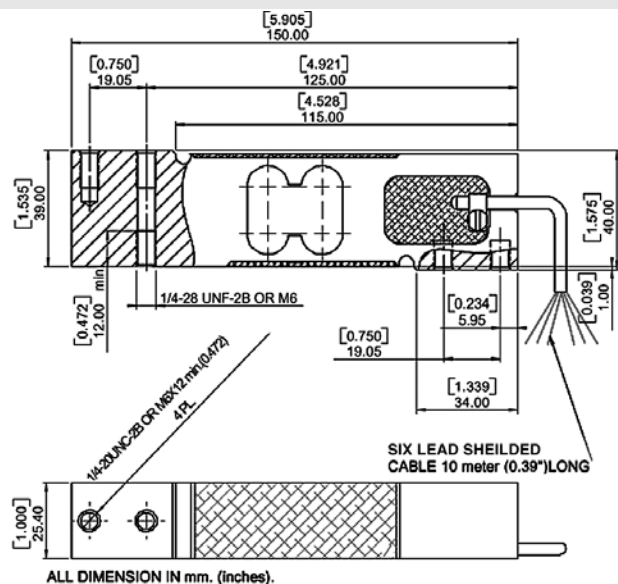
Wiring Schematic Diagram



Balanced Bridge Temperature Compensation

Mounting Torque

For Capacities:



ALL DIMENSION IN mm. (Inches).

Model 1142

Vishay TedeA-Huntleigh Single Point Stainless Steel Load Cell



SPECIFICATIONS AND OUTLINE DIMENSIONS

PARAMETER	VALUE		UNIT
T-H Accuracy class	E	G5	
OIML Accuracy class	non-approved	C3/50	
Maximum no. of intervals (n)	1000	3000	
Rated capacity-R.C. (E_{max})	10, 15, 20, 30, 50, 75, 100, 150		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.	0.050	0.0167	± % of load
Total Error	0.030	0.020	± % of R.O.
Temperature effect on zero	0.0070	0.0023	± % of R.O./°C
$Y = E_{max}/V_{min}$	2000	6000	
Temperature effect on output	0.0030	0.0010	± % of load/°C
Eccentric loading error	0.0074	0.0049	
Temp. range, compensated	-10 to +40		°C
Temp. range, safe	-20 to +70		°C
Maximum safe static overload (central loading)	150		% of R.C.
Ultimate static overload (central loading)	300		% of R.C.
Excitation, recommended	10		Vdc or Vac rms
Excitation, maximum	15		Vdc or Vac rms
Input impedance	385 ± 10		Ohms
Output impedance	351 ± 5		Ohms
Insulation resistance	> 2000		M Ohms
Cable length	1.0		M
Cable type	6 conductors, 28 - 22 AWG, Shielded, PVC/Polyurethane jacket Ungrounded or Grounded Shield		
Construction	Stainless Steel		
Compensation circuit type	Balanced		
Environmental protection	IP67 Adhesive Silicon Rubber		
Outline Dimensions DWG.	174.000.00-4		

NOTE: OIML Class C3 for capacities 20 - 100 kg

VISHAY TRANSDUCERS (VT) - VISHAY TEDEA-HUNTLEIGH - SALES OFFICE Denmark

Nordic Transducer

Als Odde DK9560 Hadsund Denmark
ph.: +45 98581444 - Fax. +45 98581866
e-mail: ntt@ntt.dk - web: www.ntt.dk