Model 1142

Vishay Tedea-Huntleigh

Single Point Stainless Steel Load Cell

OIML ATEX

FEATURES

- Capacity range: 10 to 150kg
- Stainless steel construction
- Single point 400 x 400mm platform
- Sealed to IP66
- Compact size: only 40mm high
- OIML approved to C3 (20 - 100kg)
- Choice of mounting threads: ¼-20 UNC or M6 x 12

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 IP66 (IEC 60529).

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

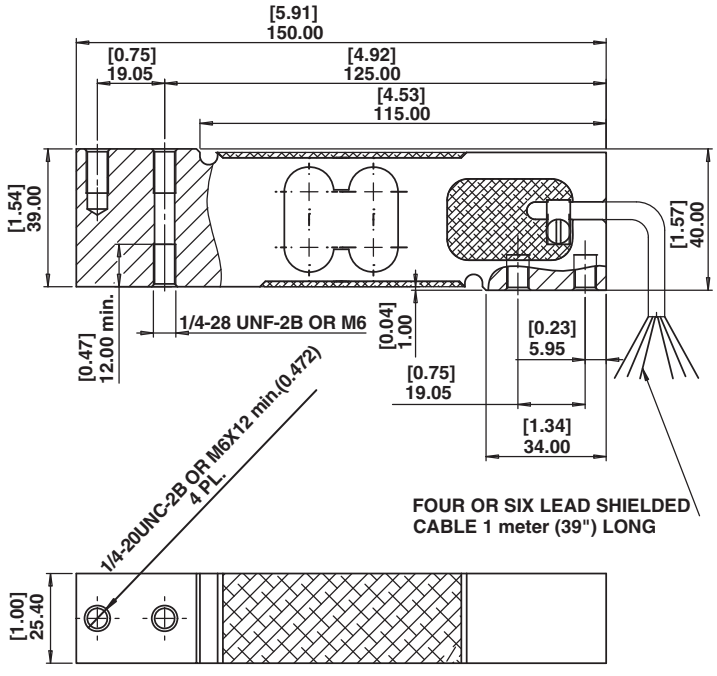
The six-wire cable includes two sense wires that compensate for changes in lead resistance due to temperature changes and cable extension.

Model 1142 options offer a choice of boltthreads, ¼-20 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 in millimeters



All DIMENSIONS IN mm [inches].

Rabbit Control Systems

Regional Distributor

803, Riqqa Palace Building, Al-Maktum Ave. P.O.Box 181802 Dubai, UAE

Tel.: +97 14 2270081 Fax: +97 14 2239962 rcsco@eim.ae www.rcs-co.com

SPECIFICATIONS

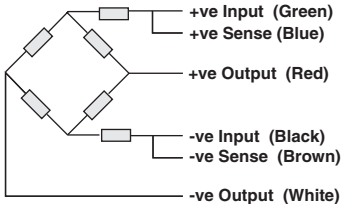
PARAMETER	VALUE		UNIT
Rated capacity-R.C. (E_{max})	10, 15, 20, 30, 50, 75, 100, 150**		kg
OIML Accuracy class	**Non-Approved**	**C3***	
Maximum no. of intervals (n)	1000	3000	
$Y = E_{max}/V_{min}$	4000	15000	Maximum available
Rated output-R.O.	2.0		mV/V
Rated output tolerance	0.2		±mV/V
Zero balance	0.2		+mV/V
Zero Return, 30 min.	0.0500	0.0167	±% of applied load
Total Error	0.0300	0.0200	±% of rated output
Temperature effect on zero	0.0070	0.0023	±% of rated output/°C
Temperature effect on output	0.0030	0.0010	±% of applied load/°C
Eccentric loading error	0.0074	0.0049	±% 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	385±10		Ohms
Output impedance	351±5		Ohms
Insulation resistance	>2000		Mega-Ohms
Cable length	1		m
Cable type	6 wire, PVC, single floating screen		Standard
Construction	Stainless steel		
Environmental protection	IP66		
Platform size (max)	400 x 400		mm
Recommended torque	Up to 30kg: 7.0 50kg & up: 10.0		N*m

* 50% utilization

** 10, 15 & 150 are not approved

Wiring Schematic Diagram

(Balanced bridge temperature compensation)



VISHAY TRANSDUCERS (VT) SALES OFFICES

VT Americas
City of Industry, CA
PH: +1-626-858-8899
FAX: +1-626-332-3418
vt.us@vishaymg.com

VMG UK
Basingstoke
PH: +44-125-646-2131
FAX: +44-125-647-1441
vt.uk@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

VT Netherlands
Breda
PH: +31-76-548-0700
FAX: +31-76-541-2854
vt.nl@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