Model 3410/3411

Vishay Tedea-Huntleigh

Shear Beam Load Cell





FEATURES

- Capacities 250 2000kg and 1000 4000lbs
- Steel and stainless steel construction
- OIML R60 and NTEP approved
- IP67 protection

OPTIONAL FEATURES

- EEx ia IIC T6 hazardous area approval
- FM approval available

DESCRIPTION

Model 3410 is a low profile shear beam load cell designed for high accuracy platform scales, pallet scales and process weighing applications.

It has high immunity to shock or side loading and is available in 2 or 3mV/V sensitivity. Approved to OIML, NTEP standards. For hazardous environments this load cell is available with EEx ia IIC T6 level of European approval.

Nickel plating and full environmental sealing assures long term reliability. A

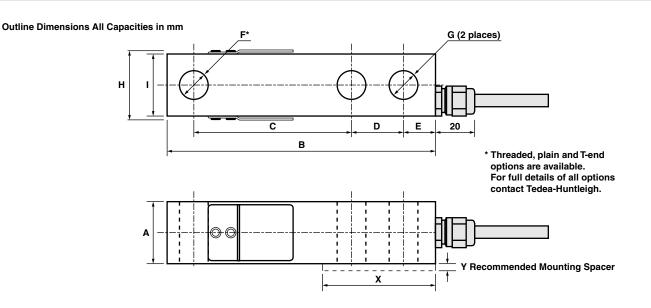
stainless steel option is available for the lb versions for use in harsh or corrosive environments.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- · Low profile platforms
- Pallet truck weighing
- Tank and silo weighing

OUTLINE DIMENSIONS in millimeters



CAPACITY	Α	В	С	D	E	ØF	ØG	Н	I	Х	Y
1000, 1500, 2500, 4000lb	30.5	130	76.2	25.4	16	Ø13.5	Ø13.5	34.0	30.5	57	4
250, 500, 1000kg	30.5	130	76.2	25.4	16	M12*	Ø13.5	34.0	30.5	57	4
2000kg	36	130	76.2	25.4	16	M12*	Ø13.5	34.0	30.5	57	4

* Tapped M12 X 1.75 & counterbored Ø13.5 X 14.5 Deep



Model 3410/3411

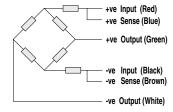
Vishay Tedea-Huntleigh

SPECIFICATIONS

PARAMETER		UNIT		
Rated capacity-R.C. (E _{max})		kg		
Rated capacity-R.C. (E _{max})		lbs		
NTEP/OIML Accuracy class	NTEP	C3		
Maximum no. of intervals (n)	3000 single 5000 multiple	1000	3000*	
Y = E _{max} /V _{min}	6666	1400	10000	Max. available
Rated output-R.O.	2	mV/V		
Rated output tolerance		±% of rated output		
Zero balance		±% of rated output		
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
Temperature range, compensated		°C		
Temperature range, safe		°C		
Maximum safe central overload		% of R.C.		
Ultimate central overload		% of R.C.		
Excitation, recommended		Vdc or Vac rms		
Excitation, maximum		Vdc or Vac rms		
Input impedance		Ohms		
Output impedance		Ohms		
Insulation resistance		Mega-Ohms		
Cable length		m		
Cable type	6 wire, bra	Standard		
Construction	Nickel pl			
Environmental protection				
Recommended torque		N*m		

50% utilization

Wiring Schematic Diagram



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

VT Netherlands Breda PH: +31-76-548-0700 FAX: +31-76-541-2854 vt.nl@vishaymg.com PH: +44-125-646-2131 FAX: +44-125-647-1441 vt.uk@vishaymg.com VMG Israel

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

VMG UK

Basingstoke

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

VT China Tianjin PH: +86-22-2835-3503 FAX: +86-22-2835-7261 vt.prc@vishaymg.com VMG France Chartres PH: +33-2-37-33-31-20 FAX: +33-2-37-33-31-29 vt.fr@vishaymg.com

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

Document Number: 12032 Revision: 08-Feb-06 www.vishaymg.com 13



Vishay

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.