## 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

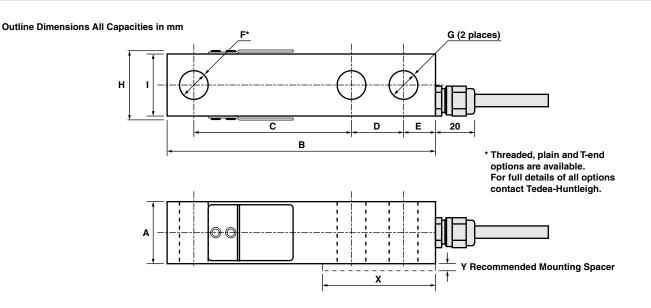
# stainless steel option is available for the lb versions for use in harsh or corrosive environments.

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



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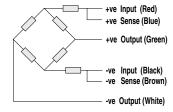
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#### **SPECIFICATIONS**

PARAMETER		UNIT		
Rated capacity-R.C. (E <sub>max</sub> )		kg		
Rated capacity-R.C. (E <sub>max</sub> )		lbs		
NTEP/OIML Accuracy class	NTEP	C3		
Maximum no. of intervals (n)	3000 single 5000 multiple	1000	3000*	
Y = E <sub>max</sub> /V <sub>min</sub>	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



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