

Alloy Steel Shear Beam Load Cell



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.

FEATURES

- Capacities 250-2000kg and 1000-4000lbs
- Low profile for industrial platforms
- Nickel plated alloy steel construction and stainless steel
- 6 wire (sense) circuit
- IP67 protection
- OIML R60 and NTEP approved
- Hazardous area approved

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.

SPECIFICATION					
GRADE	Z	E	G	C3**	UNITS
Rated Capacities: Metric	250, 500, 1000, 2000				kg
Rated Output	2.0 ± 0.10%				mV/V
Rated Capacities: Imperial	1000, 1500, 2500, 4000				lb
Rated output	3.0 ± 0.10%				mV/V
Zero Return after 30 mins	0.070	0.050	0.0170	0.0170	± % of applied load
Total Error*	0.075	0.050	0.200	0.0200	± % of applied load
Temperature Effect: On Zero On Output	0.015 0.007	0.007 0.004	0.0023 0.0012	0.0023 0.0012	± % of rated output/°C ± % of applied load/°C
Zero Balance	3.0	3.0	2.0	2.0	± % of rated output
Temperature Range: Operating Compensated	- 30 to + 80 - 10 to + 40				°C °C
Safe Overload	150				% of rated capacity
Ultimate Overload	300				% of rated capacity
Excitation: Recommended Maximum	10 15				Volts AC or DC Volts AC or DC
Input Impedance	380 ± 10				Ohms
Output Impedance	350 ± 3				Ohms
Insulation Impedance	> 2000				MegaOhms
Deflection at Rated Capacity	< 0.4				mm
Weight: 250, 500, 1000kg (1,1.5,2.5,4klb) 2 Tonne	0.9 1.1				kg kg
Construction	Electroless nickel plated steel and stainless steel				
Environmental Protection	IP67				
Cable	5m(kg), 3m(lb), 6 wire, polyurethane jacket, floating screen				

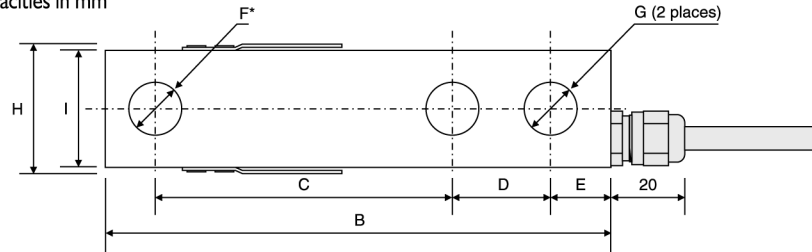
*Standard 50% utilization, 30% utilization available

**According to OIML R60

Alloy Steel Shear Beam Load Cell

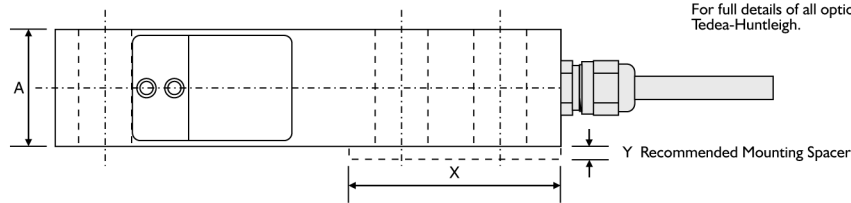
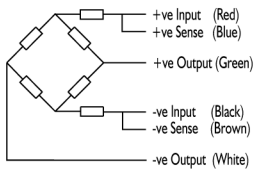
DIMENSIONS in millimeters

Outline Dimensions All Capacities in mm



*Threaded, plain and T-end options are available.
For full details of all options contact TedeA-Huntleigh.

Wiring Schematic Diagram



CAPACITY	A	B	C	D	E	Ø F	Ø G	H	I	X	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, 1000 kg.	30.5	130	76.2	25.4	16	M12*	Ø13.5	34.0	30.5	57	4
2000 kg.	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

VISHAY TRANSDUCERS (VT) - SALES OFFICES