

Shear Beam Load Cell

FEATURES

- Capacities 250-2000 kg and 1000-4000 lbs
- Steel and stainless steel construction
- OIML R60 and NTEP approved
- IP67 protection
- Spiral bending support on cable
- Optional
 - EEx ia IIC T6 hazardous area approval
 - FM and IECEx approvals available
 - EDOC option available; product appearance will differ from the photograph due to coating

APPLICATIONS

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

DESCRIPTION

The 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 3 mV/V sensitivity. Approved to OIML and 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.

OUTLINE DIMENSIONS in millimeters											
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CAPACITY	Α	В	C	D	E	ØF	ØG	H	I	X	Y
1000, 1500, 2500, 4000 lbs	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											

Model 3410/3411

Tedea-Huntleigh

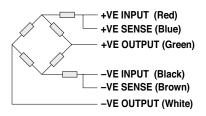
Shear Beam Load Cell

SPECIFICATIONS				
PARAMETER		UNIT		
Rated capacity—R.C. (Emax)		kg		
Rated capacity-R.C. (Emax)		lbs		
NTEP/OIML accuracy class	NTEP	Non-Approved	C3	
Maximum no. of intervals (n)	3000 single 5000 multiple	1000	3000(1)	
Y = E _{max} /V _{min}	6666	1400	10000	Maximum available
Rated output-R.O.		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		°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		Ω		
Output impedance		Ω		
Insulation resistance		MΩ		
Cable length		m		
Cable type	6-wire, bra	Standard		
Construction	Nickel-plated alloy steel and stainless steel			
Environmental protection				
Recommended torque		N*m		

* 50% utilization

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM



Transducers

Celtron • Revere • Sensortronics • Tedea-Huntleigh



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