

Stainless Steel Shear Beam Load Cell

FEATURES

- Capacities 300-5000 kg, 1000-5000 lbs
- · Stainless steel construction
- OIML R60 and NTEP approved
- Hermetically sealed to IP68 and IP69K
- · Specially designed for demanding environments
- Optional
 - EEx ia IIC T6 hazardous area approval
 - FM and IECEx approvals available
 - 1100Ω impedance available

APPLICATIONS

- · Low profile platforms
- Pallet truck weighing
- Tank and silo weighing
- · Demanding environment weighing
- · Food industry weighing

DESCRIPTION

The Model 3510 provides the weighing industry with the ultimate protection necessary for today's hostile environments in an economical, low profile range suitable for platform scale manufacture.

Its low profile and fully welded sealing combined with high accuracy makes this load cell ideally suited for low











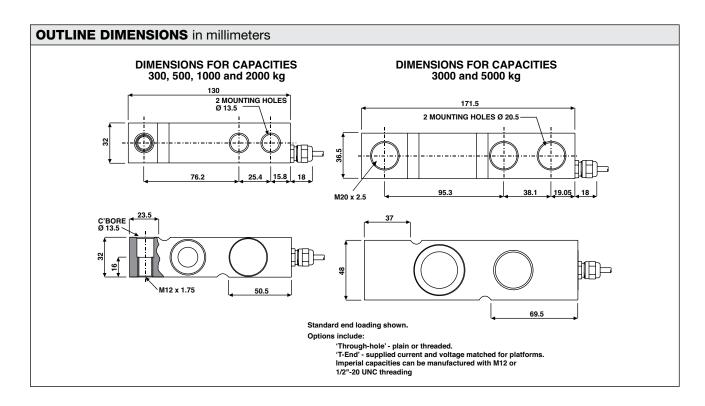




profile platforms, pallet truck weighers, tanks and silos. The guide slots incorporated into the upper and lower mounting faces enable manufacturers to easily position the load cell.

Hermetically sealed against moisture, the construction of the Model 3510, in combination with a polyurethane dual shielded cable, enables continuous operation in demanding environments while maintaining a high operating specification.

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.





Stainless Steel Shear Beam Load Cell

SPECIFICATIONS					
PARAMETER	VALUE				UNIT
Rated capacity—R.C. (E _{max})	300, 500, 750, 1000, 1200, 2000, 3000, 5000			kg	
Rated capacity—R.C. (E _{max})	1000, 1500, 2500, 4000			lbs	
NTEP/OIML accuracy class	NTEP	Non- Approved	СЗ	C6	
Maximum no. of intervals (n)	3000 single 5000 multiple	1000	3000 (1)	6000(2)	
Y = E _{max} /V _{min}	12500	1400	12000	20000	Maximum available 20000
Rated output—R.O	2.0 for kg and 3.0 for lbs				mV/V
Rated output tolerance	0.1				±% of rated output
Zero balance	2			±% of rated output	
Zero return, 30 min.	0.015% for III/3000 Single 0.010% for III/5000 Multiple	0.0300	0.0170	0.0083	±% of applied load
Total error	0.0200	0.0500	0.0200	0.0100	±% of rated output
Temperature effect on zero	0.0023	0.0100	0.0023	0.0007	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	0.00058	±% of applied load/°C
Temperature range, compensated	-10 to +40				°C
Temperature range, safe	-30 to +80				°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	380±10				Ω
Output impedance	355±5				Ω
Insulation resistance	>2000				ΜΩ
Cable length	5				m
Cable type	6-wire, braided, polyurethane, dual floating screen				Standard
Construction	Stainless steel				
Environmental protection	IP68, IP69K				
Recommended torque	136.0 (3000 and 5000 kg-205.0)				N*m

^{(1) 50 %} utilization

All specifications subject to change without notice.

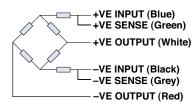
CERTIFICATION MARKINGS

ATEX/IECEx/UKEX markings (for Zone 0,1,2 and Zone 20,21,22) II 1 GD Ex ia IIC T4 Ga Ex ia IIIC T135°C Da Ta = -20°C to +40/70°C

ATEX/UKEX markings (for Zone 2 and Zone 22 only) II 3GD Ex ec IIC T6 Gc Ex tc IIIC T85°C Dc Ta = -20 to +40°C or

II 3GD Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc Ta = -20 to +70°C

WIRING SCHEMATIC DIAGRAM



FM Approval markings (USA and Canada) IS Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; T4
Ta = -25°C to +40°C

⁽²⁾ Capacities 300-1200 kg, and 1000-2500 lbs only