

# **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
- · Specially designed for harsh environment
- Optional
  - EEx ia IIC T6 hazardous area approval
  - FM approval available
  - $\circ$  1100 $\Omega$  impedance available

#### APPLICATIONS

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

#### DESCRIPTION

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 all welded sealing combined with high accuracy makes this load cell ideally suited for low

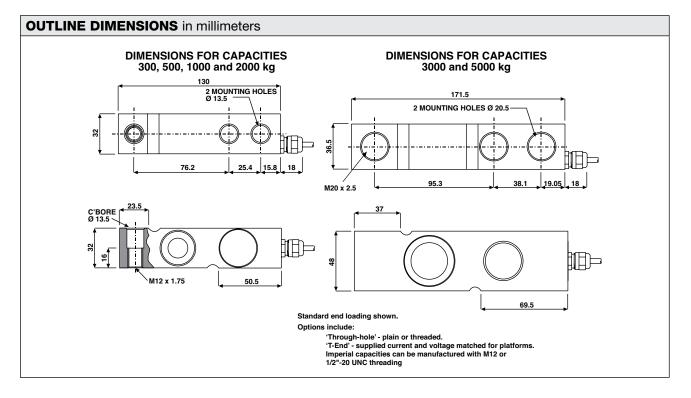




profile platforms, pallet truck weighers, tanks and silos. The guide slots incorporated into the upper and lower mounting faces enable manufacturers to easily position the load cell.

Hermetically sealed against moisture, the construction of the Model 3510 in combination with a polyurethane dual shielded cable, enables continuous operation in harsh 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.



Model 3510 Tedea-Huntleigh



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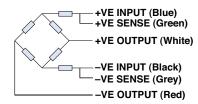
SPECIFICATIONS					
PARAMETER	VALUE				UNIT
Rated capacity-R.C. (Emax)	300, 50	300, 500, 750, 1000, 1200, 2000, 3000, 5000			kg
Rated capacity—R.C. (Emax)		1000, 1500,	lbs		
NTEP/OIML accuracy class	NTEP	Non- Approved	C3	C6	
Maximum no. of intervals (n)	3000 single 5000 multiple	1000	3000 (1)	6000 <sup>(2)</sup>	
Y = E <sub>max</sub> /V <sub>min</sub>	12500	1400	12000	20000	Maximum available 20000
Rated output-R.O		2.0 for kg ar	mV/V		
Rated output tolerance		0	±% of rated output		
Zero balance		2	±% of rated output		
Zero return, 30 min.	0.0250	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	0.0009	±% of rated output/°C
Temperature effect on output	0.0010	0.0030	0.0010	0.00058	±% of applied load/°C
Temperature range, compensated		–10 te	°C		
Temperature range, safe		–20 te	°C		
Maximum safe central overload		15	% of R.C.		
Ultimate central overload		30	% of R.C.		
Excitation, recommended		1	VDC or VAC RMS		
Excitation, maximum		1	VDC or VAC RMS		
Input impedance	380±10				Ω
Output impedance	355±5				Ω
Insulation resistance	>2000				ΜΩ
Cable length		Ę	m		
Cable type	6-wire, br	aided, polyuret	Standard		
Construction		Stainle			
Environmental protection		IP			
Recommended torque	136.0 (3000 and 5000 kg-205.0)				N*m

(1) 50 % utilization

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

All specifications subject to change without notice.

#### WIRING SCHEMATIC DIAGRAM





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