# Model 3510

### Shear Beam Load Cells

### Features



- Capacities: 500 5000 kg (1102-11022 lbs)
- Stainless steel construction
- Combined error only 0.02%
- Hermetically sealed to IP68
- 6 Wire (sense) circuit
- Interchangeable with Model 3410 and other
- Industry standard configuration load cells
- Fully welded protection
- Hostile environment capability

Model 3510 is a hermetically sealed, stainless steel shear beam. Designed for the ultimate protection necessary for today's hostile environments, it is ideally suited for low profile platforms, pallet truck weighers, tanks and silos.

This high accuracy load cell is hermetically sealed to IP 68 and is OIML Class C3 Approved. When operated at constant temperature, all load cells offer 0.02% combined error performance regardless of accuracy class.

Hermetically sealed, stainless steel construction assures long-term stability even under harsh environment and extreme temperatures. The slotted profile enables manufacturers to easily position the load cell without resorting to the use of mounting plates.

For tank or hopper mounting applications, Tedea-Huntleigh offers the Model 9100 Series Cell-Mates. Cell-Mates simplify mounting while increasing system accuracy.



Contact Info E-mail sales@tedea-huntleigh.com Website www.tedea-huntleigh.com

20630 PLUMMER ST CHATSWORTH CA 91311 USA

Tel: 800.626.2616 Fax: 818.701.2799

Europe Tedea-Huntleigh Europe Ltd. 37 Portmanmoor Road Cardiff CF24 SHE United Kingdom Tel:\*44(0)29-20460231 Fax:\*44(0)29-20462173

International Tedea-Huntleigh International Ltd. 5 Hozoran St. New Industrial Zone P.O. Box 8381. Netanya 42506 Israel Tel: +972-9-863-8888 Fax: +972-9-863-8800 China Beijing Tedea-Huntleigh No. 16 Hong Da Bei Lu Da Xing County, Beijing Economic & Technology Development Area. Beijing 100176 Tel:\*86-10-67881604-09 Fax:\*86-10-67881576

Germany Tedea-Huntleigh GmbH. Mumlingweg 18 D-64297 Darmstadt-Eberstadt Germany

Tel:+49-6151-94460 Fax:+49-6151-944640 SEEA sa 16 Rue Francis Vovelle 28000 Chartres France

Tel: +33-237-33-3120 Fax:+33-237-3129

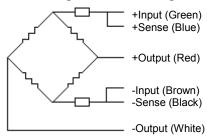
France

# Model 3510

## Shear Beam Load Cells

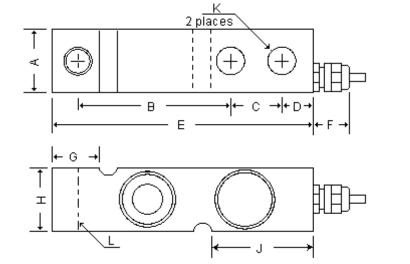
GRADE	E	G/C3	UNITS			
Rated Capacity	500, 1000,	2000, 5000	kg			
Rated Output*	2.0 ± (	0.25%	mV/V			
Total Error	0.05	0.02	±% of Rated Output			
Creep at Rated Capacity / Zero Return After 30 Minutes	0.05	0.017	±% of Applied Load			
Zero Balance	3	2	±% of Rated Output			
Temperature Range: Safe	-30 to	0 +80	°C			
Temperature Range: Compensated	-10 to	o +40	°C			
Temperature Effect: On Output	0.004	0.0012	±% of Applied Load / °C			
Temperature Effect: On Zero	0.007	0.0023	±% of Rated Output / °C			
Maximum Overload at the Center Loading Point	15	50	% of R.C.			
Ultimate Overload at the Center Loading Point	30	00	% of R.C.			
Excitation: Recommended	1	0	VDc or Vac rms			
Excitation: Maximum	1	5	VDc or Vac rms			
Input Impedance	420	± 20	Ohms			
Output Impedance	350	)± 3	Ohms			
Insulation Resistance	>1(	000	Mega Ohms			
Weight: 500 - 2000 kg	0.9	90	kg			
Weight: 5000 kg	1.	90	kg			
Construction	Stainles	ss Steel				
Cable	5 Meters (Standard), 6 Wire Polyurethane Jacket, Dual Floating Screen					
Environmental Protection	IP	67				

#### Wiring Schematic Diagram



The two "sense" wires sample the bridge supply voltage at the load cell. Complete compensation of change in the lead wire resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into appropriate electronics.

## Outline Dimensions All Capacities (in inches unless otherwise specified.)



Capacity	Α	В	С	D	Е	F	G	Н	J	Κ	L	
500 - 2000	1.26	3.00	1.00	0.62	5.12	0.71	0.93	1.26	1.99	13.5	1/2"-20	M12 X
kg										mm	UNF	1.75
5000 kg	1.44	3.75	1.50	0.75	6.75	0.71	1.46	1.89	2.76	20.5	M20x2.5	20.5 mm
										mm		