### Model 5223

Revere

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Celtron • Revere • Sensortronics • Tedea-Huntleigh

# **Double-Link Beam Load Cell**

#### FEATURES

- Capacities: 50k to 100k lbs.
- Nickel-plated element
- Certified to OIML R60 3000d and NTEP class
  IIIL 10000 divisions
- Sealing: IP67 (DIN 40.050)
- Low profile, self-checking, and self-centering
- Optimized design specially for weigh-bridge use
- Optional
  - Conduit adapter
  - FM approved for use in potentially explosive atmospheres

#### APPLICATIONS

- Truck scales
- Railroad track scales
- "Legal-for-Trade" tank, bin and hopper weighing

#### DESCRIPTION

The Model 5223 is a hermetically sealed, end loaded, center supported double-ended shear beam.

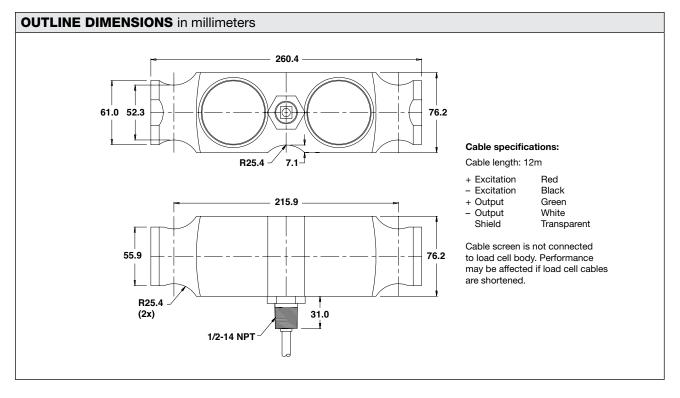
This product is suitable for a wide range of truck and rail scales. It is designed to use parallel link

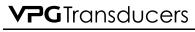


loading, considered by many weighing experts to be advantageous when compared to other loading techniques.

Fully welded stainless steel seals ensure high environmental integrity and provided that additional cable sealing is used, occasional submersion can occur without damage.

These products meet the stringent Weights and Measures requirements throughout Europe.





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#### Double-Link Beam Load Cell

SPECIFICATIONS				
PARAMETER	VALUE			UNIT
Standard capacities (Emax)	50k, 65k, 100k			lbs.
Accuracy class according to OIML R-60 / NTEP	NTEP IIIL	Non-Approved	C3	
Max. no. of verfication intervals (n <sub>lc</sub> )	10000		3000	
Min. verification interval (V <sub>min</sub> )			E <sub>max</sub> /10000	
Rated output (=S)	3			mV/V
Rated output tolerance	0.003			±mV/V
Zero balance	1.0			±% FSO
Combined error	0.0200	0.0300	0.0200	±% FSO
Non-repeatability	0.0100	0.0100	0.0100	±% FSO
Minimum dead load output return	0.0250	0.0300	0.0167	±% applied load
Creep error (30 minutes)		0.0300	0.0245	±% applied load
Creep error (20 minutes)	0.0027	0.0045		±% applied load
Temp. effect on min. dead load output	(0.0008)	0.0140	0.0070	±% FSO/5°C (/°F)
Temperature effect on sensitivity	(0.0010)	0.0070	0.0045	±% applied load/5°C(/°F)
Minimum dead load	0			% Emax
Maximum safe over load	150			% Emax
Ultimate over load	300			% Emax
Maximum safe side load	100			% Emax
Deflection at E <sub>max</sub>	0.5 / 0.6 / 0.9			mm
Excitation voltage	5 to 18			V
Maximum excitation voltage	20			V
Input resistance	700±7			Ω
Output resistance	700±7			Ω
Insulation resistance	≥5000			ΜΩ
Compensated temperature range	-10 to +40			°C
Operating temperature range	-40 to +80			°C
Storage temperature range	-40 to +90			°C
Element material (DIN)	Nickel-plated alloy steel			
Sealing (DIN 40.050 / EN60.529)	IP67			

FSO-Full Scale Output

All specifications subject to change without notice.



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