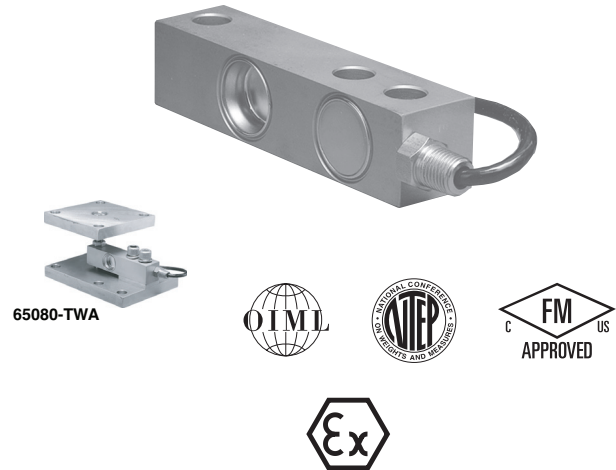


## Stainless Steel, Welded Seal Shear Beam Load Cell

### FEATURES

- Rated capacities of 1000 to 20,000 pounds
- Stainless steel, welded seal construction
- Trade certified for NTEP Class III L 10000 and III 5000 divisions and OIML R-60 3000 divisions
- Hostile or clean environment
- Sealed to IP67, IP68 or IP69K rating
- Factory Mutual System Approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!)
- **Optional**
  - Integral conduit adaptor with teflon jacketed cable available
  - EDOC option available; product appearance will differ from the photograph due to coating



### APPLICATIONS

- Hostile environments: food and beverage processing, chemical and plastics processing, pharmaceutical and biomedical processing
- Tank, bin and hopper weighing
- Batching, blending and mixing systems

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.

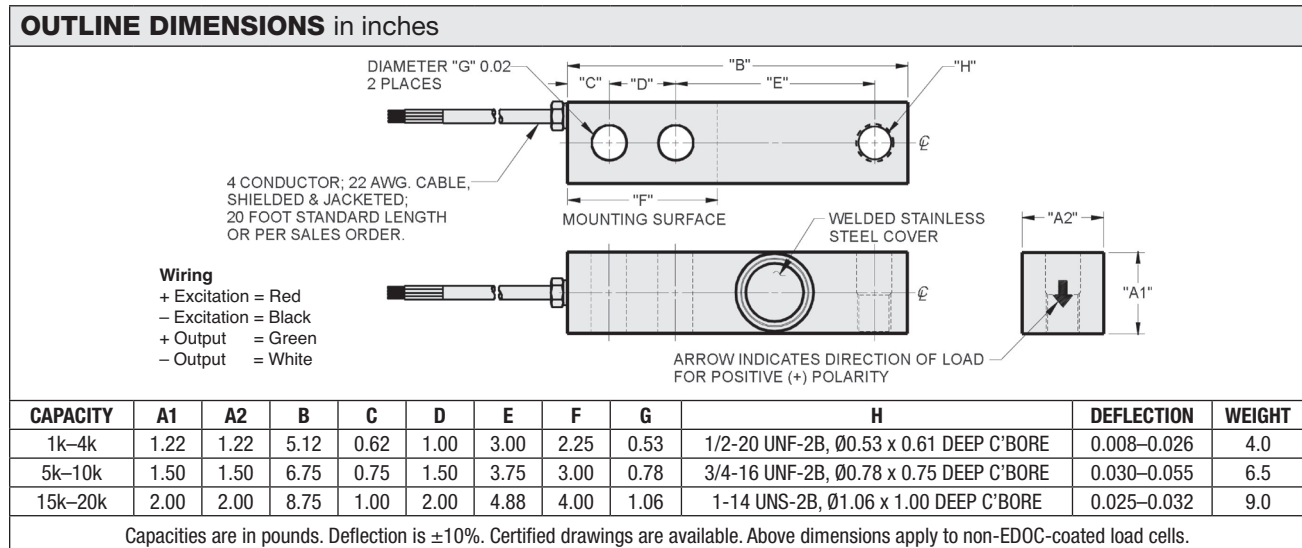
### DESCRIPTION

The Model 65083 provides the weighing industry with excellent protection necessary for today's hostile environments in an economical low profile range suitable for platform scale manufacture.

Hermetically sealed against moisture, the construction of the model 65083 in combination with a polyurethane dual shielded cable, enables continuous operation in harsh environments while maintaining a high operating specification.

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

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, Welded Seal Shear Beam Load Cell

SPECIFICATIONS					
PARAMETER	VALUE				UNIT
Rated capacity—R.C. (E <sub>max</sub> )	1k, 1.5k, 2.5k, 4k, 5k, 10k, 15k, 20k <sup>(1)</sup> 500 kg, 750 kg, 1 t, 2 t, 3 t, 5 t <sup>(1)</sup>				lbs kg/t
NTEP/OIML accuracy class	NTEP III	NTEP III L	Standard	OIML R60	
Maximum no. of intervals (n)	5000 single	10000 multiple		3000 <sup>(1)</sup>	
Y = E <sub>max</sub> /V <sub>min</sub>	NTEP Cert. No. 98-058				8333
Rated output—R.O.	2.0	2.0	3.0	2.0	Maximum available mV/V
Rated output tolerance	0.25				±% mV/V
Zero balance	1.0				±% FSO
Combined error	0.02	0.02	0.03	0.02	±% FSO
Non-repeatability	0.01				±% FSO
Creep error (30 minutes)	0.025	0.03	0.03	0.017	±% FSO
Temperature effect on zero	0.0010	0.0010	0.0015	0.0010	±% FSO/°F
Temperature effect on output	0.0008	0.0008	0.0008	0.0007	±% of load/°F
Compensated temperature range	14 to 104 (–10 to 40)				°F (°C)
Operating temperature range	0 to 150 (–18 to 65)				°F (°C)
Storage temperature range	–60 to 185 (–50 to 85)				°F (°C)
Sideload rejection ratio	500:1				
Safe sideload	100				% of R.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	343–357				Ω
Output impedance	349–355				Ω
Insulation resistance at 50 VDC	>1000				MΩ
Material	Stainless steel				
Environmental protection	IP68, IP69K				
Recommended torque	All capacities up to 5000 kg–136.0 5000 kg–205.0				N*m

**Notes**

<sup>(1)</sup> OIML approval 1–10k lbs and 500–5000 kg only  
 NTEP approval 1–10k lbs only (kg/metric capacities are not approved)

FSO—Full Scale Output

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

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

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