

Series MIN830

Miniature Load Cell

Standard Features

- Ranges from 10 lbs. to 30K lbs.
- Compact Compression
- Welded Stainless Steel
- 0.50% Accuracy
- -65°F to +250°F Operation
- mV/V Output and Amplified Output Available



shown actual size

Standard Specifications

Performance

Capacities	10 to 30,000 lbs. (See table).
Output	2mV/V nominal.
Accuracy	0.50% BFSL.
Compensated Temperature Range	70°F to 170°F.
Operating Temperature Range	-65°F to 250°F.
Temperature Effect on Zero	0.005% FSO/°F.
Temperature Effect on Span	0.005% Reading/°F.
Zero Balance	1% FSO.
Bridge Resistance	350 Ohms nominal.

Mechanical Characteristics

Calibration	5 Points (0, 50%, 100%, 50%, 0) Compression.
Static Overload Capacity	150% FSO.
Construction	Welded stainless steel.

Electrical Characteristics

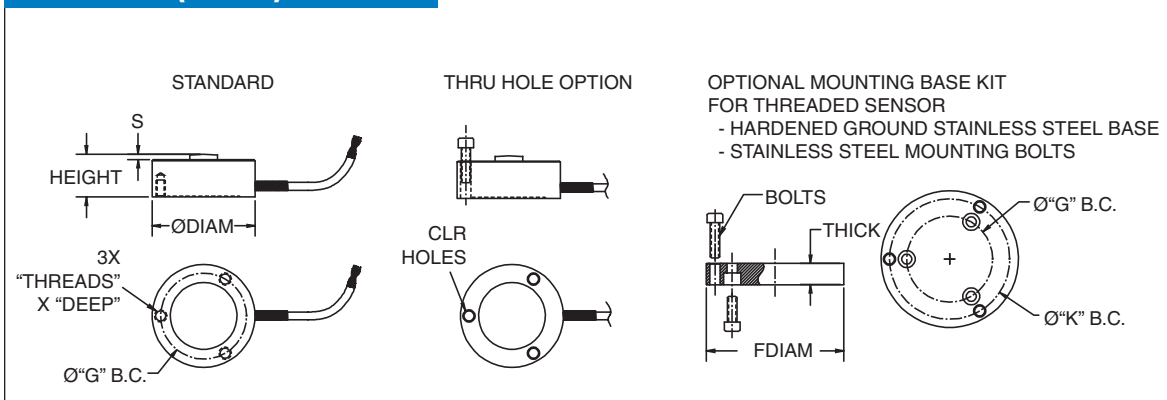
Excitation	10 Vdc or Vac.
Insulation Resistance	Greater than 5000 megaohms at 50 Vdc at 70°F.
Electrical Termination	10', 4 Conductor Shielded Teflon Cable
Wiring	RED +EXE GREEN -SIG BLACK -EXE WHITE +SIG

MIN830

Series MIN830 Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below
Custom Designs Available

Dimensions (inches)



Load Cell Dimensions (Inches)

Capacities (LB)	Diameter	Height	Threads	X	G	S	Optional CLR
10, 25, 50, 100	Ø1.00	0.62	4-40	0.22	0.75	0.05	N/A
250, 500, 1000, 2000	Ø1.25	0.39	6-32	0.21	1.00	0.07	#6
2500, 5000, 7500, 10,000	Ø1.50	0.63	6-32	0.25	1.25	0.08	#6
15,000, 20,000, 30,000	Ø2.00	1.00	6-32	0.25	1.63	0.12	#6

Flange Mount Base Dimensions (Inches)

Load Cell Diameter	F Diam	Thick	Bolts	"K" B.C.	"G" B.C.
Ø1.00	Ø1.50	0.32	6-32 UNF X 0.63	Ø1.25	Ø0.75
Ø1.25	Ø1.75	0.32	6-32 UNF X 0.63	Ø1.50	Ø1.00
Ø1.50	Ø2.00	0.32	6-32 UNF X 0.63	Ø1.75	Ø1.25
Ø2.00	Ø2.50	0.32	6-32 UNF X 0.63	Ø2.25	Ø1.63

Available Options

Mounting	Clearance thru holes instead of threads. Mounting base kit.
Temperature Compensation Ranges	From -65°F to 400°F.
Temperature Operating Ranges	From -65°F to 400°F.
Calibration	Additional calibration points (in addition to standard 5 points) available (Consult Factory) Special and custom calibration available (Consult Factory)
Amplifiers	Integral, Internal, or Inline (Consult Factory). • Analog (4-20 mA; 0-5 Vdc; 0-10 Vdc). • Digital (RS-232; RS-485; CANbus; MODbus).
Calibration Range	Special full scale range (Example: 1000 kg.).
Cable Length	Cable length specified (ft.).
Cable Connector	Add a connector to the end of the cable. Consult factory for available connectors.
Custom Options	Other unlisted customer requested options welcome.

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NOTES: When using a load cell the user must consider load ratings and fatigue life for long term use and structural integrity. Critical loading applications, especially overhead loading, must always be designed with safety redundant load paths. MODIFICATIONS: We realize load cell applications vary greatly and as such our designs are flexible. Specifications subject to change without notice.

WARRANTY: Stellar Technology warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Stellar Technology's obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Stellar Technology. This warranty is in lieu of all other warranties expressed or implied.

Find More Information at:
stellartech.com

Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

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