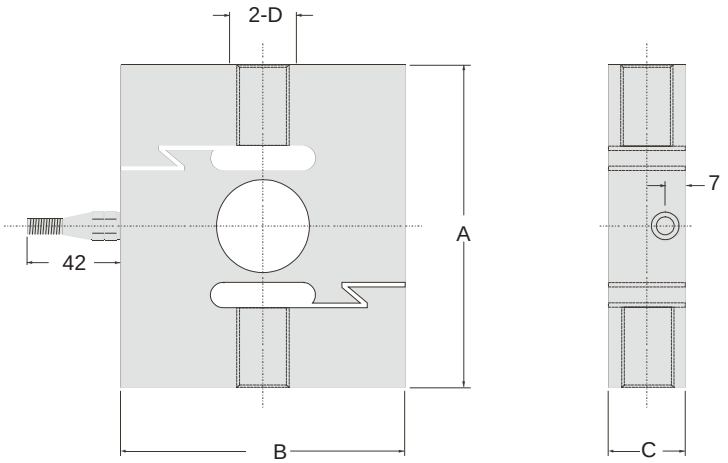
Model 123 Load Cell

Order Code BL810

- Low Cost
- 2,000 to 40,000 lb. (1,000 to 20,000 kg) Range
- +/- 0.03% Total Error



Wiring Code

Red	(+) Supply
Black	(-) Supply
Green	(+) Output
White	(-) Output

Dimensions

Range (lb.)	A (in.)	B (in.)	C (in.)	D
2,000; 3,000	3.1	2.8	1.0	M12
4,000 to 10,000	4.2	3.7	1.0	M18x1
15,000; 20,000	7.0	5.1	2.0	M30x2
30,000; 40,000	7.5	6.3	2.4	M39x2

Range (kg)	A (mm)	B (mm)	C (mm)	D
1,000; 1,500	80	70	25	M12
2,000 to 5,000	108	95	25	M18x1
7,500; 10,000	178	130	51	M30x2
15,000; 20,000	190	160	60	M39x2

Performance

Load Ranges.....2,000 to 20,000 lb.; 1,000 to 20,000 kg
Total Error.....+/- 0.03% Full Scale
Output (tolerance).....3.0 +/- 0.01mV/V
Creep (max.).....+/- 0.03% Full Scale (30 minutes)

Environmental

Temperature, Operating.....-20° to 160° F (-30° to 70° C)
Temperature, Compensated.....0° to 130° F (-20° to 55° C)
Temperature, Effect
Zero.....+/- 0.03% Full Scale/ 10° C
Span.....+/- 0.03% Full Scale/ 10° C
Protection Class.....IP67

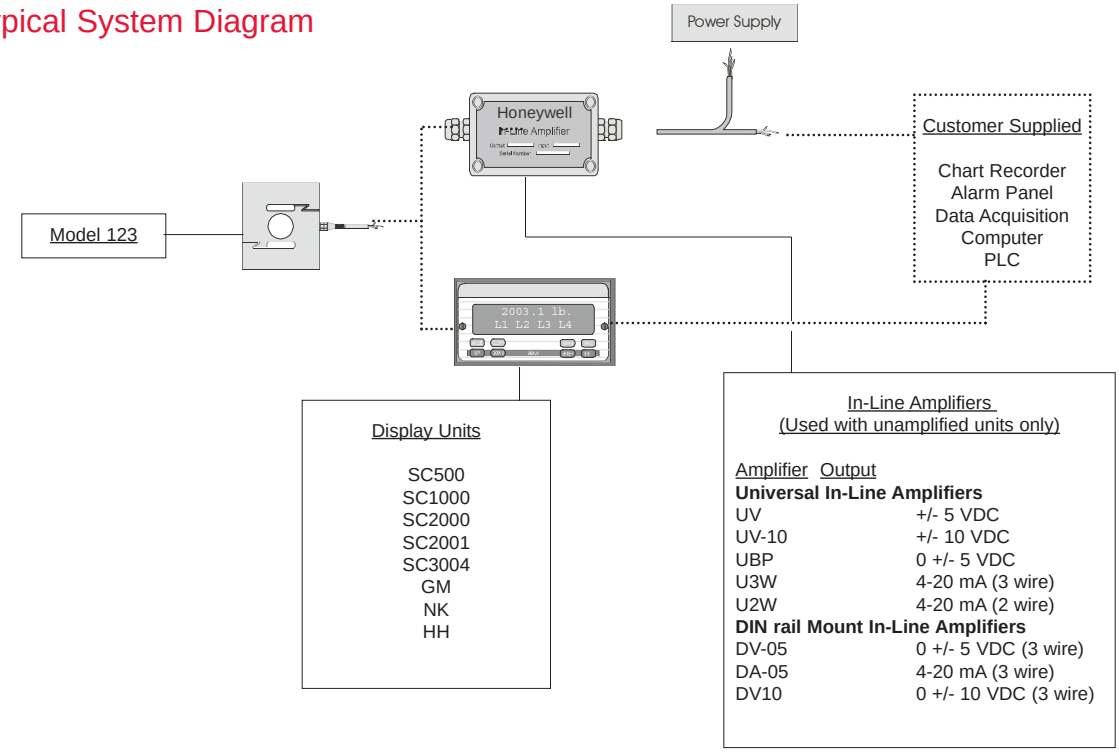
Electrical

Strain Gage Type.....Foil
Excitation (acceptable).....10-12 VDC
Excitation (max.).....15 VDC
Insulation Resistance.....>= 5,000 MegaOhms
Bridge Resistance (tolerance)
Input Resistance.....400 +/- 10 Ohms (nominal)
Output Resistance.....352 +/- 2 Ohms (nominal)
Zero Balance (tolerance).....+/- 1% Full Scale
Electrical Termination (std).....6m of 5mm diameter cable

Mechanical

Safe Overload Capacity.....20% over capacity (note 1)
Later Load Limit.....100% over capacity
Material.....Alloy Steel
Life Cycles (approx.).....10 million cycle[s

Typical System Diagram



Range Codes

Range	Range Code	Range	Range Code
2,000 lb.	DL	1,000 kg	LN
3,000 lb.	DN	1,500 kg	LP
4,000 lb.	DP	2,000 kg	LQ
6,000 lb.	DS	3,000 kg	LS
10,000 lb.	DV	5,000 kg	LU
15,000lb.	DJ	7,500 kg	LV
20,000 lb.	EL	10,000 kg	LW
30,000 lb.	EN	15,000 kg	LY
40,000 lb.	EQ	20,000 kg	LZ

Notes

1. Allowable Maximum Loads- Maximum load to be applied without damage *2.

2. Without Damage- loading to this level will not cause excessive zero shift or performance degradation. The user must consider fatigue life for long term use and structural integrity. All structurally critical applications (overhead loading, etc.) should always be designed with safety redundant load paths.

How to Order

Combine the order code and the range code.

Sample Code: BL810 (Order Code) DS (Range Code)