Model 9203

Revere

VISHAY PRECISION GROUP

Double Ended Beam Load Cell

FM

FEATURES

- Capacities: 1K to 75Klbs
- Environmental protection: IP67 (DIN 40.050)
- Material: stainless steel
- Center loaded design
- Welded covers for all capacities

OPTIONAL FEATURE

- FM certified versions are available for use in potentially explosive atmospheres

DESCRIPTION

The 9203 is a stainless steel Double Ended Shear Beam type load cell.

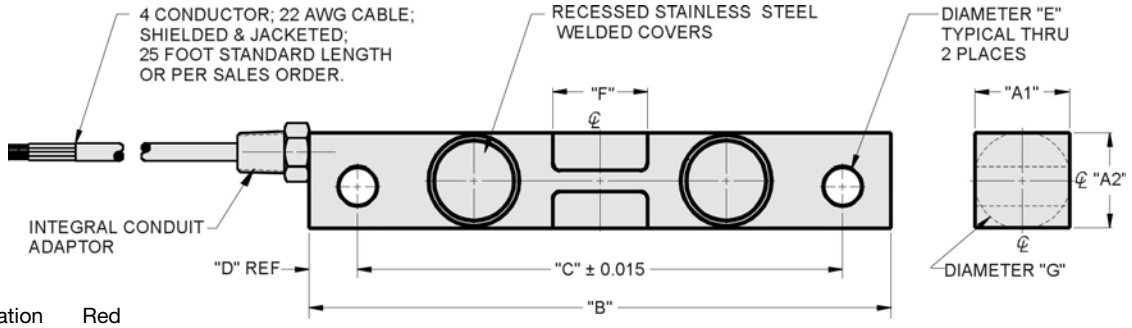
A reliable sealing and mechanical protection of the skin gage area is ensured by the use of potting compound with a metal cover.

The center loaded design results in minimal sensitivity to off-center forces.

APPLICATIONS

- Silo, tank, hopper weighing
- Custom system designs
- Low capacity vehicle scales

OUTLINE DIMENSIONS in inches



Wiring

+ Excitation	Red
- Excitation	Black
+ Output	Green
- Output	White

CAPACITY	A1	A2	B	C	D	E	F	G	THREAD
1K - 5K	1.22	1.22	7.50	6.25	0.62	0.50	1.12	1.25	1/4-18NPT
10K - 25K	1.44	1.94	8.75	7.50	0.62	0.81	1.62	1.99	1/4-18NPT
35K	1.44	2.44	8.75	7.50	0.62	0.81	1.62	2.50	1/4-18NPT
50K - 75K	2.44	2.94	13.50	11.50	1.00	1.31	3.25	2.99	1/2-14NPT

Capacities are in pounds.

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SPECIFICATIONS		
PARAMETER	**VALUE**	**UNIT**
Standard capacities (E_{max})	1, 1.5, 2, 2.5, 5, 10, 15, 20, 25, 35, 50, 75	Klbs
Accuracy class	Non Approved - D3	
Rated output (=S)	3.0	mV/V
Rated output tolerance	0.008	±mV/V
Zero balance	1.0	±% FSO
Combined error	0.03	±% FSO
Creep error (20 minutes)	0.03	±% FSO
Temp. effect on min. dead load output	0.0015	±% FSO/5°C (/°F)
Temperature effect on sensitivity	0.0008	±% FSO/5°C (/°F)
Maximum safe over load	150	$\%E_{max}$
Ultimate over load	300	$\%E_{max}$
Maximum safe side load	100	$\%E_{max}$
Excitation voltage	10	V
Maximum excitation voltage	15	V
Input resistance	700±14	Ω
Output resistance	703±4	Ω
Insulation resistance	≥1000	MΩ
Compensated temperature range	-10 to +40 (+14 to +104)	°C (°F)
Operating temperature range	-18 to +65 (0 to +150)	°C (°F)
Element material (DIN)	Stainless steel	
Sealing	IP67	

FSO - Full Scale Output

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