

# Single-Ended Beam Load Cell

### **FEATURES**

- Capacities: 200-2500 lbs.
- Low profile, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 5000d and NTEP class III, 5000 divisions
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Interchangeable with existing Model 5102
- Optional
  - ATEX and FM certified versions are available for use in potentially explosive atmospheres

#### **APPLICATIONS**

- Platform scales
- · Belt scales
- Silo/hopper weighing
- Overhead track scales

### **DESCRIPTION**

The 9102 is a stainless steel single-ended beam type load cell.





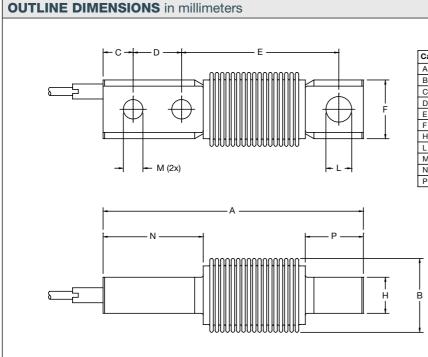






This product is suitable for small and medium platform scales, overhead track scales and process weighing.

The fully welded construction and water block cable entry ensure that this product can be used successfully in harsh environments found in the food, chemical and allied process industries.



Capacity (lbs)	200	500-1000	2500
Α	127.0	136.7	136.7
В	39.6	39.6	39.6
С	9.7	15.8	15.8
D	15.9	25.4	25.4
E	88.9	82.6	82.6
F	31.2	31.2	31.2
Н	19.0	19.0	19.0
L THRU	9.9	10.3	13.5
M <sub>THRU</sub>	6.8	10.3	10.3
N	38.1	52.6	52.6
Р	31.8	30.5	30.5

Cable specifications:
Cable length 3m
Excitation + Red
Excitation - Black
Output + Green
Output - White
Shield Transparent

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened. Document No.: 11801 Revision: 08-Sep-2017





## **Model 9102**

Revere

## Single-Ended Beam Load Cell

SPECIFICATIONS								
PARAMETER	VALUE		UNIT					
Standard capacities (=E <sub>max</sub> )	200, 500, 1000, 2500				lbs.			
Accuracy class according to OIML R-60 /	NTEP III	Non- Approved	C3	C5				
Max. no. of verification intervals (n)	5000		3000	5000				
Minimum verification interval (V <sub>min</sub> )	E <sub>max</sub> /15000 E <sub>max</sub> /1		E <sub>max</sub> /15000					
Rated output (=S)	2				mV/V			
Rated output tolerance	0.02				±mV/V			
Zero balance	1.0				±% FSO			
Combined error	0.0200	0.0500	0.0200	0.0100	±% FSO			
Non-repeatability	0.0100	0.0200	0.0100	0.0070	±% FSO			
Minimum dead load output return	0.0250	0.0500	0.0167	0.0100	±% applied load			
Creep error (30 minutes)		0.0600	0.0245	0.0147	±% applied load			
Creep error (20-30 minutes)		0.0200	0.0053	0.0032	±% applied load			
Temp. effect on min. dead load output	(0.0008)	0.0250	0.0047	0.0047	±% FSO/5°C (/°F)			
Temp. effect on sensitivity	(0.0010)	0.0250	0.0055	0.0035	±% applied load/5°C (/°F)			
Minimum dead load	0				% E <sub>max</sub>			
Maximum safe overload	150				% E <sub>max</sub>			
Ultimate overload	300				% E <sub>max</sub>			
Maximum safe side load	100 (50 for 200 lbs.)				% E <sub>max</sub>			
Deflection at E <sub>max</sub>	0.2/ 0.2/ 0.8/ 0.8				mm			
Excitation voltage	5 to 12				V			
Maximum excitation voltage	15				V			
Input resistance	350±3.5				Ω			
Output resistance	350±3.5				Ω			
Insulation resistance	>5000				ΜΩ			
Compensated temperature range	-10 to +40				°C			
Operating temperature range		–40 t	°C					
Storage temperature range		–40 t	°C					
Element material		Stainless s						
Sealing (DIN 40.050 / EN 60.529)		IP66 ar						
SC-Version	Standard							
Recommended torque on fixation bolts		80 (70 foi	N*m					

FSO-Full Scale Output

SC-version: The rated output and the output resistance are balanced in such a way that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

Correct mounting of the load cells is essential to ensure optimum performance. Further information is available on request.

All specifications are subject to change without notice.





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