Rice Lake RL30000I Alloy Steel, Single-Ended Beam Load Cell

As of: Friday, January 17, 2025



Standard Features

This threaded hole, single-ended beam is designed for low-profile scales and process applications. NTEP Certified cells in capacities ranging from 1,000 lb to 10,000 lb. Non-NTEP Certified cells in 250 lb, 500 lb and 20,000 lb capacities. Complete with 20 ft of load cell cable.

Approvals

WARNING: Cancer and Reproductive Harm California Proposition 65

RL30000I Load Cell Specifications

Full Scale Output:
3.0 mV/V

Bridge Resistance:
350 ohm, nominal

Material/Finish:
High-alloy steel, nickel plated

Temperature:
Compensated:
14 °F to 104 °F (-10 °C to 40 °C)
Operating:
0 °F to 150 °F (-18 °C to 65 °C)

Seal Type:
Environmentally sealed, IP67

Safe Overload:
150% full scale

Safe Sideload:
100% full scale

Rated Excitation:
5 to 10 VAC (15 V maximum)

Combined Error:
0.02% full scale

Insulation Resistance:
5,000 megohm

Deflection at Capacity:
250 to 1,000 lb: 0.013 in
2,000 to 3,000 lb: 0.015 in
4,000 to 5,000 lb: 0.025 in
10,000 lb: 0.032 in
20,000 lb: 0.038 in

Cable Length:
20 ft

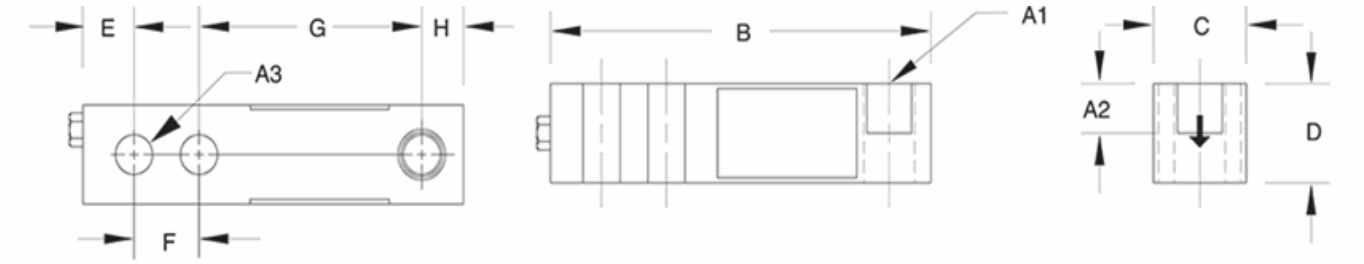
Cable Diameter:
0.200 in
Polyurethane jacket

Cable Color Code:
Red +Excitation
Black –Excitation
Green +Signal
White –Signal

Warranty:
Two-year limited

Approvals:
cFMus
NTEP 98-043

RL30000I Load Cell Dimensions



Rated Capacity	A1	A2	A3	B	C	D	E	F	G	H
lb/in										
250 to 5,000 SE	1/2-20 UNF	0.60	0.53	5.12	1.25	1.25	0.62	1.00	3.00	0.50
5,000 LE to 10,000	3/4-16 UNF	0.75	0.78	6.75	1.50	1.50	0.75	1.50	3.75	0.75
20,000	1-14 UNF	1.00	1.03	8.75	2.00	2.00	1.00	2.00	4.75	1.00

Parts

Part #	Description
NTEP Certified	
21491	Load Cell,SEB RL30000I-1K 1000lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67
21493	Load Cell,SEB RL30000I-2K 2000lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67
21495	Load Cell,SEB RL30000I- 2.5K 2500lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67
21497	Load Cell,SEB RL30000I-3K 3000lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67
21498	Load Cell,SEB RL30000I-4K 4000lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67
21500	Load Cell,SEB RL30000I- 5KSE 5000lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67 SE
21501	Load Cell,SEB RL30000I- 5KLE 5000lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67 LE
21503	Load Cell,SEB RL30000I- 10K 10,000lb 20ft 3mv/v 350 Ohm NTEP III 3S/III 5M FM WW IP67
Non-NTEP Certified	
17341	Load Cell,SEB RL30000I- 250lb 20ft 3mv/v 350 Ohm WW IP67
17342	Load Cell,SEB RL30000I- 500lb 20ft 3mv/v 350 Ohm WW IP67
17109	Load Cell,SEB RL30000I- 20K 20,000lb 20ft 3mv/v 350 Ohm WW IP67

Options

Part #	Description
Conduit Adapter Kit (must be factory installed to maintain warranty)	
31533	Adapter,Conduit SST 3/8-24UNF Thread Nipple
31534	Adapter,Conduit SST 1/4-18 NPT 3/8-24UNF-ZA

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