

RL35023 Single-Ended Beam

Alloy Steel



STANDARD FEATURES

- Low-profile scales and process applications
- Full scale output: 3.0mV/V
- Bridge resistance: 350 ohms, nominal
- High-alloy steel, nickel plated
- Environmentally sealed

APPROVALS



SPECIFICATIONS

FULL SCALE OUTPUT:
3.0mV/V

BRIDGE RESISTANCE:
350 ohms, nominal

MATERIAL/FINISH:
High-alloy steel, nickel plated

TEMPERATURE:
Compensated range
14°F to 104°F (-10°C to 40°C)

SAFE OVERLOAD:
150% Full scale

RATED EXCITATION:
10VDC (15V maximum)

NONLINEARITY:
0.03% Full scale

HYSTERESIS:
0.02% Full scale

INSULATION RESISTANCE:
5000 megohms

DEFLECTION AT CAPACITY:
500-1000lb = .013in (.3mm)
2000-3000lb = .015in (.4mm)
4000-5000lb = .025in (.6mm)
10,000lb = .035in (.9mm)

SEAL TYPE:
Environmentally sealed, IP67

CABLE LENGTH:
20ft (6.1 m)

CABLE COLOR CODE:
Red + Excitation
Black - Excitation
Green + Signal
White - Signal

WARRANTY:
Two-year limited warranty

DIMENSIONS

RATED CAPACITY	A1	A2	A3	A4	B	C	D	E	F	G
lb/inches										
500	1/2-20 UNF-2B	.50	.53	.53	1.25	1.00	5.12	1.00	3.00	.50
1000-5000 SE	1/2-20 UNF-2B	.62	.53	.53	1.25	1.25	5.12	1.00	3.00	.50
5000 LE-10,000	3/4-16 UNF-2B	.75	.78	.78	1.50	1.50	6.75	1.50	3.75	.78
15,000-20,000	1-14 UNS-2B	1.00	1.03	1.03	2.00	2.00	8.88	2.00	4.88	1.03
kg/mm										
226.8	1/2-20 UNF-2B	12.7	13.5	1.35	25.4	31.8	130.1	25.4	76.2	13.0
453.6-2268.0 SE	1/2-20 UNF-2B	15.8	13.5	13.5	31.8	31.8	130.1	25.4	76.2	13.0
2268.0 LE-4535.9	3/4-16 UNF-2B	19.1	19.8	19.8	38.1	38.1	171.5	38.1	95.3	20.7
6803.9-9071.9	1-14 UNS-2B	25.4	26.2	26.2	50.8	50.8	225.6	50.8	124.0	25.0

LOAD RATING	PART #	PART #
1000lb (453.6 kg)	21528	
2000lb (907.2 kg)	21529	
2500lb (1134.0 kg)	21530	
3000lb (1360.8 kg)	21531	
4000lb (1814.4 kg)	21532	
5000lb SE (2268.0 kg)	21535	
5000lb LE (2268.0 kg)	21533	
10,000lb (4535.9 kg)	21534	
Non-NTEP		
500lb (226.8 kg)	17181	
15,000lb (6803.9 kg)	17186	
20,000lb (9071.9 kg)	17187	
Conduit Adapter Kit*		
(must be factory installed to maintain warranty)		
3/8-24 Nipple	31533*	
3/8-24 to 1/4-18 NPT	31534*	

*PN 31533 and 31534 must be installed together to form the Conduit Adapter Kit

SE refers to small envelope
LE refers to large envelope

