

# RL40BBS Single-Ended Beam

Alloy Steel



## STANDARD FEATURES

- Precision force and weight measurement
- Full scale output: 2.0mV/V
- Bridge resistance: 750 ohms, nominal, 50-1000lb; 347 ohms, nominal, 2500lb
- High-alloy steel, nickel plated
- Environmentally sealed with neoprene sleeve, IP65

## SPECIFICATIONS

### FULL SCALE OUTPUT:

2.0mV/V

### BRIDGE RESISTANCE:

50-1000lb/750 ohms, nominal  
2500lb/347 ohms, nominal

### MATERIAL/FINISH:

High-alloy steel, nickel plated

### TEMPERATURE:

Compensated range  
0°F to 150°F (-18°C to 65°C)

### SAFE OVERLOAD:

150% Full scale

### RATED EXCITATION:

10VAC/DC (15V maximum)

### NONLINEARITY:

0.03% Full scale

### HYSTERESIS:

0.02% Full scale

### INSULATION RESISTANCE:

5000 megohms

### DEFLECTION AT CAPACITY:

50lb = .015in (.38 mm)  
100lb = .005in (.64 mm)  
200-250lb = .030in (.76 mm)  
500lb = .020in (.51 mm)  
1000lb = .040in (1.02 mm)  
2500lb = .120in (3.05 mm)

### SEAL TYPE:

Environmentally sealed with neoprene sleeve,  
IP65

### CABLE LENGTH:

10ft (3.1 m)

### CABLE COLOR CODE:

Green + Excitation  
Black - Excitation  
White + Signal  
Red - Signal

### WARRANTY:

Two-year limited warranty

## DIMENSIONS

| RATED CAPACITY<br>lb/inches | A     | A1   | A2   | B    | C    | D     | E    | F    | G    | H   |
|-----------------------------|-------|------|------|------|------|-------|------|------|------|-----|
| 50-100                      | 6.00  | .31  | .31  | .38  | .88  | 4.25  | 1.06 | 1.41 | —    | —   |
| 200-1000                    | 6.62  | .52  | .52  | .50  | 1.12 | 4.25  | 1.06 | 1.41 | —    | —   |
| 2500                        | 11.38 | .53  | .62  | .50  | 1.75 | 8.25  | 1.25 | 2.19 | 1.19 | .12 |
| kg/mm                       |       |      |      |      |      |       |      |      |      |     |
| 22.7-45.4                   | 52.4  | 7.9  | 7.9  | 9.7  | 22.4 | 108.0 | 26.9 | 35.8 | —    | —   |
| 90.7-453.6                  | 168.2 | 13.2 | 13.2 | 12.7 | 28.5 | 108.0 | 26.9 | 35.8 | —    | —   |
| 1134.0                      | 289.1 | 13.5 | 15.8 | 12.7 | 44.5 | 209.6 | 31.8 | 55.6 | 30.3 | 3.0 |

## LOAD RATING

## PART #

|                          |       |
|--------------------------|-------|
| 50lb (22.7 kg) .....     | 17395 |
| 100lb (45.4 kg) .....    | 17343 |
| 200lb (90.7 kg) .....    | 17396 |
| 250lb (113.4 kg) .....   | 17397 |
| 500lb (226.8 kg) .....   | 17398 |
| 1000lb (453.6 kg) .....  | 17344 |
| 2500lb (1134.0 kg) ..... | 17345 |

