

# RL75016 Double-Ended Beam

Alloy Steel



## STANDARD FEATURES

- Tank and hopper applications
- Full scale output: 3.0mV/V
- Bridge resistance: 700 ohms, nominal
- High-alloy steel, nickel plated
- Environmentally sealed, IP67

## APPROVALS



## SPECIFICATIONS

### FULL SCALE OUTPUT:

3.0mV/V

### BRIDGE RESISTANCE:

#### 700 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:

10VDC (15V maximum)

### NONLINEARITY:

0.03% Full scale

### HYSTERESIS:

0.02% Full scale

### INSULATION RESISTANCE:

2000 megohms

### DEFLECTION AT CAPACITY:

1000-3000 lb = .01 in (.3mm)  
5000 lb = .015 in (.4mm)  
10,000-20,000 lb = .022 in (.6mm)  
25,000 lb = .036 in (.9mm)  
50,000 lb = .052 in (1.3mm)  
75,000 lb = .07 in (1.8mm)

### SEAL TYPE:

Environmentally sealed, IP67

### CABLE LENGTH:

25ft (7.6m)

### CABLE COLOR CODE:

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

### WARRANTY:

Two-year limited warranty

## DIMENSIONS

### RATED CAPACITY

#### lb/inches

	A1	A2	C	D	E	F	G
1000-5000	.50	1.25	1.25	1.25	7.50	6.25	.69
10,000-25,000	.81	1.99	1.44	1.94	8.75	7.50	.96
50,000	1.31	3.00	2.44	2.94	13.50	11.50	1.50
75,000	1.31	—	2.44	2.94	13.50	11.50	1.47

#### kg/mm

453.6-2268.0	12.7	31.8	31.8	31.8	190.5	158.8	17.5
4535.9-11,339.8	20.6	50.8	36.6	49.3	222.3	190.5	24.4
22,679.6	33.3	76.2	62.0	74.7	342.9	292.1	38.1
34,019.4	33.3	—	62.0	74.7	342.9	292.1	37.3

## LOAD RATING

## PART #

1000 lb (453.6 kg)	17300
1500 lb (680.4 kg)	17302
2000 lb (907.2 kg)	17304
2500 lb (1134.0 kg)	17306
3000 lb (1360.8 kg)	17308
5000 lb (2268.0 kg)	17309
10,000 lb (4535.9 kg)	17311
15,000 lb (6803.9 kg)	17313
20,000 lb (9071.9 kg)	17315
25,000 lb (11,339.8 kg)	17317
50,000 lb (22,679.6 kg)	17319
*75,000 lb (34,019.4 kg)	25357

\* 75,000lb capacity has a square center

