

# Cardinal LOAD CELLS

SERIES TB - BEAM TYPE - FOR MEDIUM TO HEAVY WEIGHING



- Capacities of 450 kg, 1100 kg, and 1800 kg
- Waterproof construction
- Stainless steel for corrosion resistance
- Direct mounting to weighing platform
- 3 m integral shielded cable

Cardinal's TB series, medium capacity beam load cells, are manufactured for medium to heavy weighing operations such as bench or floor scales. Stainless steel construction offers strength, and the ultimate in protection when caustic or corrosive environments are encountered. Heavy capacity single point cells are available in 450 kg to 1800 kg capacities. The unique design of these beam load cells offers cost-saving advantages for many weighing applications.

### Mechanical Data

Rated Capacity, (R.C.) $E_{max}$  .450, 1100, & 1800 kg  
 Minimum Dead Load .....0 kg  
 Safe Load Limit.....150% R.C.  
 Ultimate Load .....300% R.C.  
 Deflection at R.C.....0.33 to 0.64 mm  
 Spring Element Material .....17-4 PH  
 Net Weight .....0.82 kg

### Certificate Data

Issuing Body .....OIML  
 Certificate Number .....R60/1991-DK-97.03  
 Accuracy Class.....C3  
 Maximum Number of Load  
 Cell Intervals, ( $n_{max}$ ) .....3000  
 Single/Multiple .....S  
 Humidity Symbol.....CH  
 Minimum Load Cell  
 Verification Interval ( $V_{min}$ )...0.08, 0.19, 0.32 kg

### Electrical Data

Rated Output .....2mV/V  
 Excitation Voltage,  
 Recommended .....10 VDC  
 Excitation Voltage,  
 Maximum .....15 VDC  
 Cable Length .....3m  
 Terminal Resistance  
 Excitation .....400 ± 7 ohms  
 Signal.....350 ± 5 ohms  
 Zero Load Output .....± 1% R.C.  
 Insulation Resistance .....>5000 megohms at  
 50 VDC

### Color Code

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

### Environmental Data

Temperature Compensation  
 Range .....-10½ to +40½C  
 Operating Temperature Range ..-29½ to +93½C  
 Construction & Protection  
 Code .....CP-56 HU, IP67  
 Barometric Pressure Effect  
 on Zero Load Output .....<1 v (min)/1kPa

M12 - 1.75 X 13.5 mm DEEP  
 C'BORE 13.5 DIA X 15.7 mm DEEP  
 FROM OPPOSITE SIDE

