

Model YA Series load cells are a value-oriented solution with exceptional performance characteristics, designed for low sensitivity to off-center loading.



applications

High Moment/Off-Center Loading

Low Force Measurements

Platform and Belt Conveyor Scales

Hopper & Net Weight Weighing

OEM and VAR Solutions

features

3 kg to 90 kg Capacities
Adjustable Compression Overload Stop
Excellent Performance
0.02% Accuracy Class
Application Versatility
Aluminum Alloy or Stainless Steel
IP67 Environmental Sealing
UNC and Metric Threads Available
Excellent Price/Performance Ratio
Two Year Warranty













specifications

dimensions performance

Rated capacities (kg): 3, 5, 7, 10, 15, 20, 30, 50 & 90

Rated output (FSO): $2 \text{ mV/V} \pm 10\%$ Combined error: ≤ 0.02 % FSO Non-linearity: ≤ 0.02 % FSO Hysteresis: ≤ 0.02 % FSO Non-repeatability: ≤ 0.01 % FSO

Moment Sensitivity: ≤ .015 % of rated load/inch

Maximum Moment: See Table Creep (30 minutes): ≤ 0.03 % of load Zero balance: ≤ 10 % FSO

Zero return (20 minutes): Better than 0.01 % FSO

electrical

Input impedance: 410 ohms (nominal) Output impedance: 350 ± 3 ohms

Insulation resistance: >5000 Megohms @ 50VDC **Excitation Voltage:** 10 V AC/DC (15 V maximum) + Excitation (red) Cable Color code:

Excitation (black) + Output (green) Output (white) Shield (bare)

Cable type: 4-conductor, shield, PVC jacket

Cable length: 10 ft

mechanical

Material: Aluminum Alloy (YA6) Stainless steel (YA3) Finish: Natural (YA6)

Electro-polished (YA3)

Safe overload: Compression/Tension: 150% FSO

Side load: 50% FSO

Ultimate overload: Compression/Tension: 300% FSO

Side load: 100% FSO < 0.016" (nominal)

Deflection: Weiaht: 3-10 kg:1 lbs; 15-50 kg: 2 lbs

Bolt torque: 3-30 kg: 60 in-lb; 50/90 kg: 90 in-lb

environmental





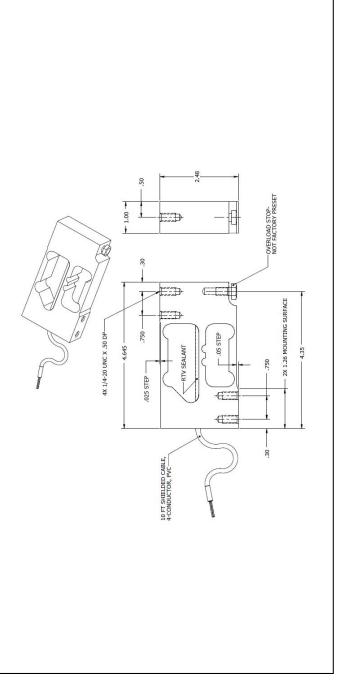
Temperature, operating 4 to +140 °F (-20 to +60°C) Temperature, compensated 14 to +104 °F (-10 to +40°C) Temperature effects: < 0.0015% FSO/°F < 0.0026% FSO/°C Output < 0.0008% of Rdg./°F

< 0.0014% Rdg./°C

IP67; Dustproof/Limited submersion Sealing

options

Non-standard variations, Special cable lengths, MS connectors, and Companion instrumentation.



application information

The YA Series load cells require appropriate mounting bolts and bolt torques for proper operation. This product is to be used in accordance with design limits for safety and performance reasons. Consult SENTRAN's Limited Warranty Statement for complete details, cheerfully provided on request.