

Single Point Load Cell

YN6Series

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For more information call 1-888-545-8988

SENTRAN, LLC 4355 LOWELL STREET, ONTARIO, CA 91761, U.S.A. **888-545-8988** T: 909-605-1544 FAX: 909-605-6305 **www.sentranlic.com**

APPLICATIONS

- Compression Measurements
- Hopper & Net Weight Weighing
- Platform and Belt Conveyor Scales
- High Moment/Off-Center Loading
- OEM and VAR Solutions

FEATURES

- 3 KG to 100 KG Capacities
- 0.02% Accuracy Class
- 2 mV/V Full Scale Output
- 10 FT (6-conductor) PVC Cable
- Low Profile 1.57" Height
- IP67 Environmental Sealing
- Anodized Aluminum Construction
- Dual Guided Beam Design
- Universal Tension and Compression
- Moment Compensated

YN6 Series Specifications

Innovative Measurement Solutions



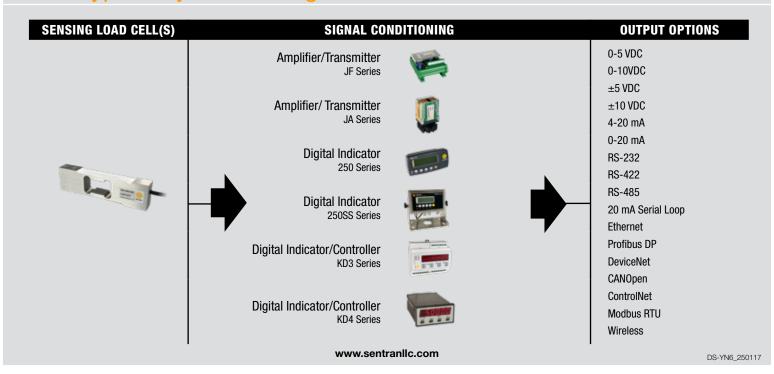
PERFORMANCE	
Rated Capacities (KG)	3, 5, 7, 10, 15, 20, 30, 50, 75, 100
Rated Output (FSO)	2 mV/V
Output Tolerance	±10 % R.0
Combined Error Band	≤ 0.02 % FS0
Non-Linearity	≤ 0.02 % FS0
Hysteresis	≤ 0.02 % FS0
Non-Repeatability	≤ 0.01 % FS0
Zero Balance	≤ 5 % FS0
Creep (30 Minutes)	≤ 0.03 % of load
Moment Sensitivity	≤ 0.018 % Applied load per inch
Maximum Moment	See Dimensions Page
Ultimate Moment	175 % of Maximum Moment

MECHANICAL	
Load Cell Material	Aluminum Alloy
Load Cell Finish	Anodized
Safe Overload	Compression 150% FS0 Side Load 30% FS0 Tension 150% FS0
Ultimate Overload	Compression 300% FS0 Side Load: 100% FS0 Tension 300% FS0
Deflection	See Dimensions Table
Weight	See Dimensions Table

ELECTRICAL					
Input Impedance	405 ± 20 ohms				
Output Impedance	350 ± 3 ohms				
Insulation Resistance	>5000 Megohms @ 50VDC				
Excitation Voltage	10 V AC/DC (15 V maximum)				
Cable Color Code	 + Excitation (Green) - Excitation (Black) + Signal (Red) - Signal (White) + Sense (Blue) - Sense (Brown) Shield (Natural) 				
Cable Type	6-conductor, 26 AWG, PVC jacket, Alumi- num Mylar Shield, Diameter: 0.188"				
Cable Length	See Dimensions Table				
Cable Termination	Finished Conductors				
Cable Seal	Epoxy; Conformal				

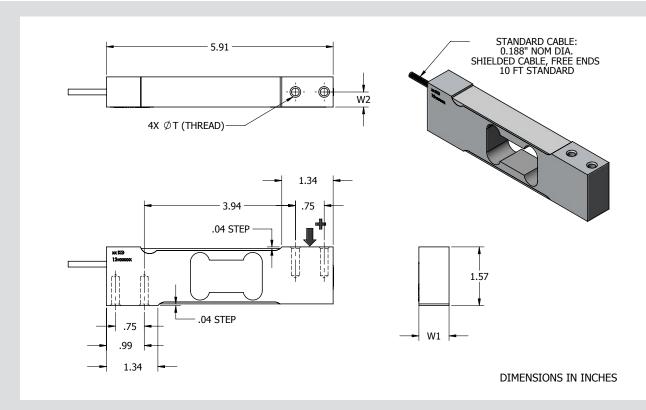
ENVIRONMENTAL					
Temperature, Operating	0 to +150 °F (-18 to +66°C)				
Temperature, Compensated	14 to +104 °F (-10 to +40°C)				
Temperature, Storage	-40 to +170 °F (-40 to +77°C)				
Temperature Effects	Zero < 0.0015% FS0/°F < 0.0026% FS0/°C				
Temperature Effects	Output < 0.0008% of Rdg./°F < 0.0014% Rdg./°C				
Sealing	IP67, Multi-redundant; Limited Immersion Tolerance				

YN6 Typical System Configuration



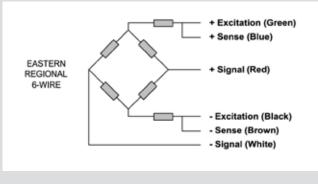
YN6 Dimensions





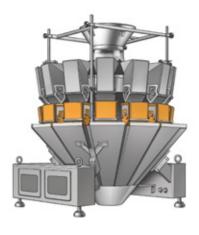
CAPACITY (KG)	W	W2	T(THREAD)	MAX MOMENT	DEFLECT	WEIGHT
3, 5, 7, 10, 15	0.79	0.394	1/4-20 UNC-2B X 0.50 DP	7 INCH X CAPACITY	0.011	0.5 LB
20, 30	0.79	0.394	1/4-20 UNC-2B X 0.50 DP	6 INCH X CAPACITY	0.011	0.5 LB
50	1.00	0.500	1/4-20 UNC-2B X 0.50 DP	5 INCH X CAPACITY	0.013	0.5 LB
75, 100	1.00	0.500	1/4-20 UNC-2B X 0.50 DP	3 INCH X CAPACITY	0.013	0.5 LB

YN6 Wiring Diagram









Gravimetric Multi-Component Feeder



Solids Flow Control



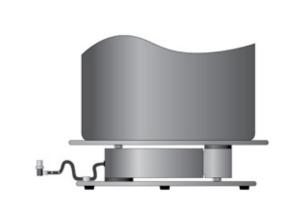
Precious Gas Scale



Loss-In-Weight



Bottle/Tank Platform Weighing



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