

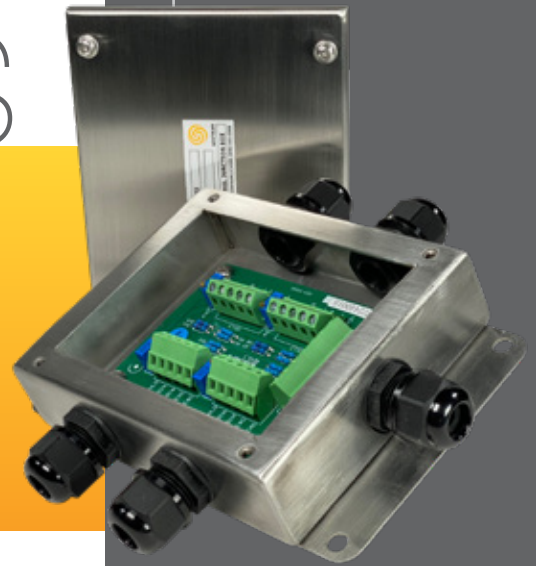


SENTRAN

Summing/Junction Boxes

NB3 Series

The NB3 Series is a four channel Summing/Junction Box constructed stainless steel to connect 2 to 4 load cell/transducer inputs to a single instrument; for tanks, bins, hoppers, silos, scales or general process weighing applications in industrial environments.



The NB3 Series Summing/Junction Box is available in 4 load cell input configurations. Functionally, the load cell inputs are multiplexed electrically in a parallel network using discrete, highly stabilized components for isolation and signal adjustments for each channel individually, with no interaction between channels. The NB3 Series active summing capabilities distributes supplied excitation voltage to each load cell/transducer and sums the resulting signal for transmission to control instrumentation. The "home run" cable is connected between the NB3 Series and the control instrumentation that supplies excitation voltage and accurate processing of the resulting load cell signals. Positive contact terminal connections provide secure clamping of conductors, ensuring long term stability of measured signals. The PCBA is conformal coated to protect it from the effects of condensation and corrosion. All NB3 Series Summing/Junction Box enclosures are Hostile Environment Sealed to NEMA 4/4X, IP68.

APPLICATIONS

- Multiple Load Cell Systems
- Tank/Bin/Hopper/Silo Weighing
- Weighing Systems & Scales
- Process Control
- Washdown/Corrosive Areas
- Hazardous Locations

FEATURES

- Optimizes System Accuracy
- "Corner Adjustment" Trimming For Balancing Variable Load Cell Signals
- No Interaction Between Zero And Span
- Remote (6-wire) Sensing Capable For Long Cable Runs And IS Applications
- NEMA 4/4X Sealing (IP68)
- Stainless Steel Enclosure
- Sealing Glands Accommodate Cable O.D. of 0.172 to 0.270 Inch



For more information call **1-888-545-8988**

SENTRAN, LLC 4355 LOWELL STREET, ONTARIO, CA 91761, U.S.A.

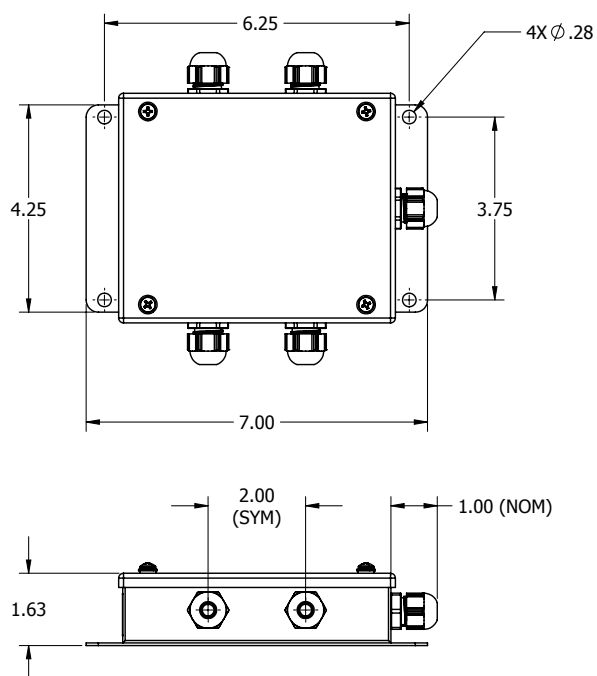
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NB3

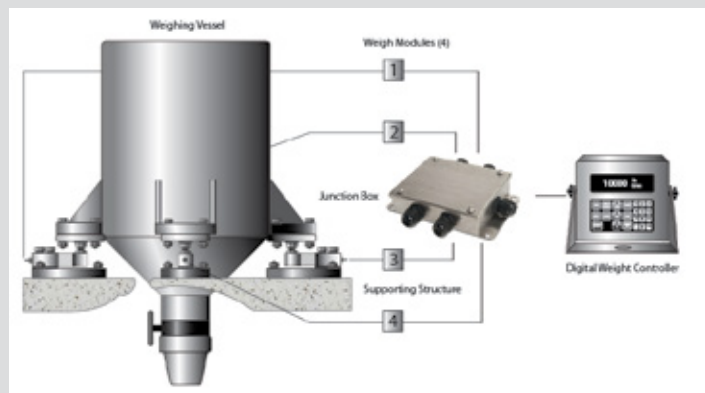
Cable Fittings:	(4) Nylon cable cord grips for load cell cable O.D. of 0.172" (4.4 mm) to 0.270" (6.9 mm) (1) Nylon cable cord grip for instrumentation cable O.D. 0.172" (4.4 mm) to 0.270" (6.9 mm)
Connectors:	14 AWG maximum wire size; Screw clamping; 45° interface
Trimming:	Discrete channel signal trimming using isolation resistors and limiting resistors
Potentiometers:	(4) 100K ohm Multi-turn
Enclosure:	Stainless Steel: NEMA 4/4X, IP68; Wash Down
Circuit board:	4.0" x 3.0" (101.6 mm X 76.2 mm)
Options:	6-conductor cable; Desiccant packs; Replacement PCBA; Cable fittings/cord grips

NB3 Series Dimensions



DIMENSIONS IN INCHES

Typical Weighing System



Legal Disclaimer



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