



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**

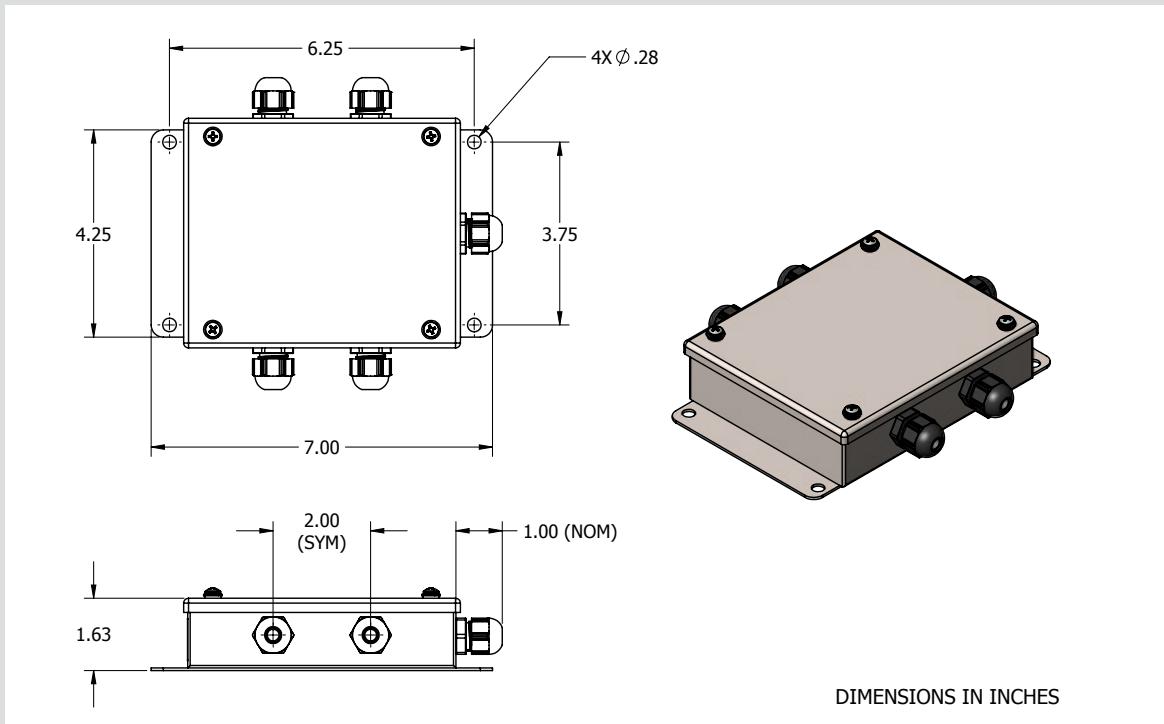
SENTRAN, LLC 4355 LOWELL STREET, ONTARIO, CA 91761, U.S.A.

888-545-8988 T: 909-605-1544 FAX: 909-605-6305 www.sentranllc.com

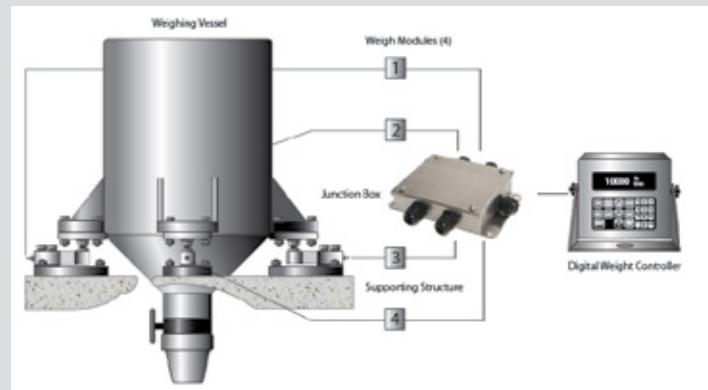
NB3

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)
Connectors:	(1) Nylon cable cord grip for instrumentation cable O.D. 0.172" (4.4 mm) to 0.270" (6.9 mm)
Trimming:	14 AWG maximum wire size; Screw clamping; 45° interface
Potentiometers:	Discrete channel signal trimming using isolation resistors and limiting resistors
(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



Typical Weighing System



Legal Disclaimer



ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Sentran, LLC, Incorporated, its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Sentran, LLC"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product. The product specifications do not expand or otherwise modify Sentran, LLC's terms and conditions of purchase, including but not limited to, the warranty expressed therein. Sentran, LLC makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. To the maximum extent permitted by applicable law, Sentran, LLC, disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability. Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on Sentran, LLC's knowledge of typical requirements that are often placed on Sentran, LLC products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of Sentran, LLC. The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Sentran, LLC products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Sentran, LLC for any damages arising or resulting from such use or sale. Please contact authorized Sentran, LLC personnel to obtain written terms and conditions regarding products designed for such applications.



SENTRAN, LLC

4355 LOWELL STREET
ONTARIO, CA 91761-2225, U.S.A.
T: 909-605-1544 F: 909-605-6305

www.sentranllc.com

Innovative Measurement Solutions