

FEATURES

- Capacity range: 500, 1.25K, 2.5K, 5K, and 10K lb (227, 567, 1.13K, 2.27K, and 4.5K kg)
- High-grade, welded, stainless-steel load beams (1.25K to 10K lb)
- Sealed to IP67 standards for washdown service
- Fixed, full-floating, and semi-floating mounting
- NTEP Certificate of Conformance
- FM and CSA approved

APPLICATIONS

- Storage tank weighing
- Bin/hopper scale conversion
- Level system measurement

DESCRIPTION

BLH Nobel EconoMount Weigh Modules are well suited for general industrial applications that require retrofitting an existing structure or hopper into a scale. The EconoMount System uses a stainless steel beam transducer coupled with fixed, full-floating, or semifloating mounting hardware. The combination of all three types, under a structure, results in a checkless system that also can accommodate moderate degrees of thermal expansion and contraction.

EconoMount units come in standard capacity ranges of 500, 1.25K, 2.5K, 5K, and 10K pounds with either zinc chromate plated alloy (standard) or stainless steel

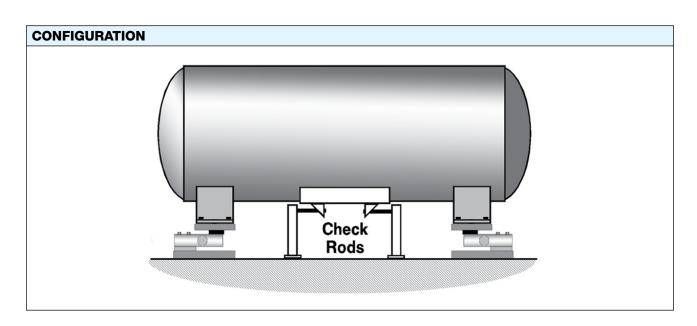








(optional) mounting hardware. Load beam sealing meets NEMA 4 and IP67 requirements. EconoMount 1.25K through 10K pound modules are NTEP Certified for Class III and IIIL scale systems.





MODULE CONFIGURATION ADVANTAGES

The BLH Nobel EconoMount System consists of three types of module mounting hardware. Each three or four support weigh system consists of a combination of fixed, semi-floating, and full-floating mounting hardware types. The full combination results in a checkless weigh system that accommodates moderate amounts of thermal expansion and contraction.

Fixed Mounting Modules

The fixed type mounting module design restricts movement in both horizontal directions while allowing a moderate degree of mounting plate angular movement to accommodate construction variances. This module type is installed on only one support to provide a fixed system 'anchor'.

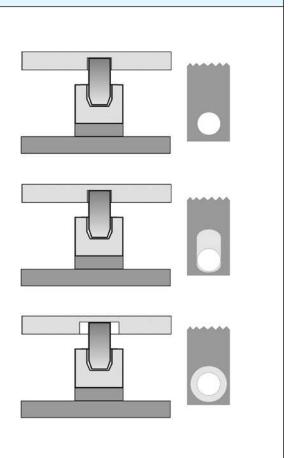
Semi-Floating Modules

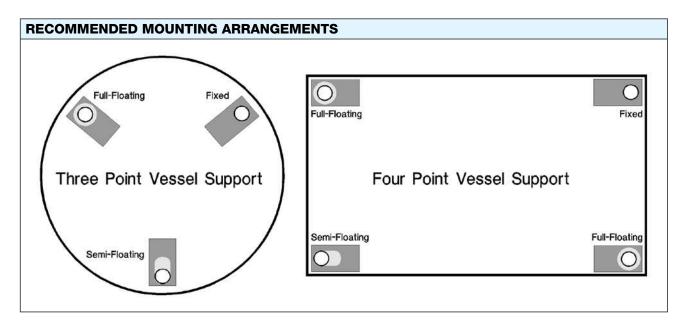
The semi-floating module design restricts lateral horizontal movement, but allows radial horizontal movement and a moderate degree of mounting plate angular movement to accommodate construction variances. This module type is installed at one support only to provide a guide for thermal expansion and contraction.

Full-Floating Modules

The full-floating module allows movement in both horizontal directions and angular movement of the mounting plate. At least one, full-floating module is needed in each system to accommodate thermal expansion and contraction in all directions.

All three module types use the same load beams, base plates, and assembly bolts. All types also conform to the same outline dimensions and performance specifications.

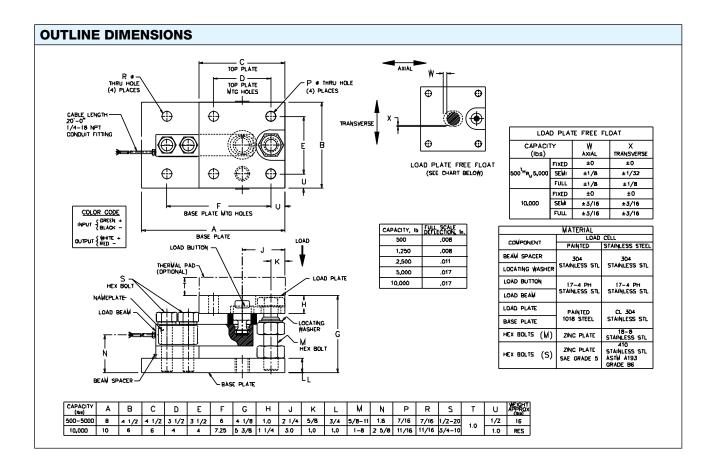




www.blhnobel.com Technical contact: blhnobel.usa@vpgsensors.com, Europe: blhnobel.eur@vpgsensors.com, Asia: blhnobel.asia@vpgsensors.com



ORDERING CODES							
EconoMount Three Support Tank Sets Consisting Of: 1 Full Floating Module, 1 Semi-Floating Module, 1 Fixed Module							
Model Number	Cell Capacity	System Capacity	Zinc Chromate Plated Steel PN	Stainless Steel PN	Zinc Chromate Plated Dummy PN	Stainless Dummy PN	
EM-P/S-3L-500	500 lb	1.5K lb	469282	469338	469364	472798	
EM-P/S-3L-1.25K	1.25K lb	3.75K lb	469283	469339	469364	472798	
EM-P/S-3L-2.5K	2.5K lb	7.5K lb	469284	469340	469364	472798	
EM-P/S-3L-5K	5K lb	15K lb	469285	469341	469364	472798	
EM-P/S-3L-10K	10K lb	30K lb	469893	469897	472765	472799	
EconoMount Four Support Tank Sets Consisting Of: 2 Full Floating Modules, 1 Semi-Floating Module, 1 Fixed Module							
EM-P/S-4L-500	500 lb	2K lb	469288	469344	469364	472798	
EM-P/S-4L-1.25K	1.25K lb	5K lb	469289	469345	469364	472798	
EM-P/S-4L-2.5K	2.5K lb	10K lb	469290	469346	469364	472798	
EM-P/S-4L-5K	5K lb	20K lb	469291	469347	469364	472798	
EM-P/S-4L-10K	10K lb	40K lb	469895	469889	472765	472799	



3



SPECIFICATIONS					
PARAMETER	VALUE				
PERFORMANCE					
Capacities	500, 1.25K, 2.5K, 5K, 10K lb (227, 567, 1.13K, 2.27K, 4.5K kg)				
Rated output (RO)	2.0 mV/V (±0.25%)				
Repeatability	0.01% RO				
Combined error	0.02% RO (beam only), 0.10% module assembly				
Zero balance	1.0% RO				
Creep (30 minutes)	0.024% RO				
Temperature effects on zero balance	0.0012% RO/°F				
Temperature effects on rated output	0.0008% Load/°F				
ELECTRICAL					
Recommended excitation	10 VDC (15 VDC max.)				
Input resistance	350 Ω (±7)				
Output resistance	350 Ω (±5)				
Cable length	20 ft, 4-conductor cable				
TEMPERATURE					
Safe temperature	−58 to +149°F				
Compensated range	+14 to +104°F				

PARAMETER	VALUE						
ADVERSE LOAD RATINGS							
Safe overload	150% rated capacity						
Safe sideload	100% rated capacity						
Ultimate overload	300% rated capacity						
MATERIAL							
	Zinc Chromate Plated	Stainless					
Load beam	17-4 PH stainless steel*	17-4 PH stainless steel					
Load button	17-4 PH stainless steel	17-4 PH stainless steel					
Bases and load plates	zinc chromate plated steel**	high grade stainless steel					
Beam spacer	304 stainless steel	304 stainless steel					
Locating washer	304 stainless steel	304 stainless steel					
SEALING							
Load beam	NEMA 4 and IP67						
DEFLECTION							
500 lb	0.013 in						
1.25 to 5K lb	0.017–0.025 in						
10K lb	0.025-0.035 in						

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly.

^{* 500} lb beam-alloy tool steel, electroless nickel plated

^{**} single component, waterborne polyurethane copolymer—high gloss



Legal Disclaimer Notice

Vishay Precision Group, Inc.

Disclaimer

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

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), 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 VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG 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, VPG 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 VPG's knowledge of typical requirements that are often placed on VPG 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. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.

Document No.: 63999 Revision: 15-Jul-2014