Load Cell Weigh Modules

FEATURES

- Capacity range: 500, 1000, 2000, 5000 kg
- High-grade, welded, stainless-steel load beams
- Sealed to IP68 and IP69K standards for washdown service
- Semi-floating mounting
- OIML Certificate of Conformance
- ATEX and cFMus approved

APPLICATIONS

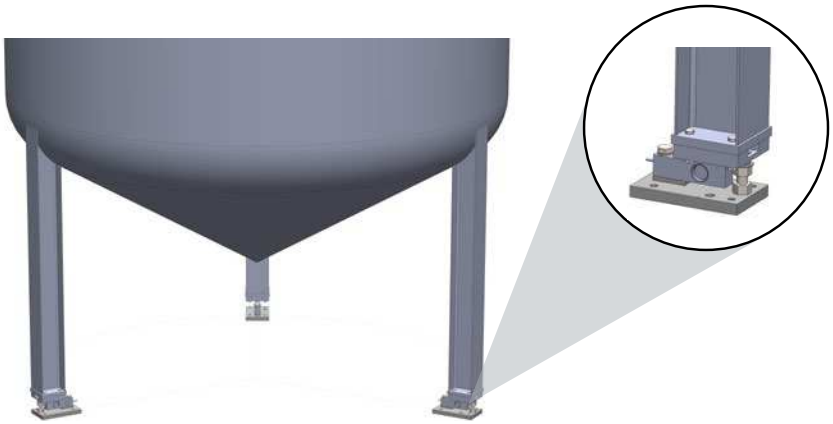
- Storage tank weighing
- Bin/hopper scale conversion
- Level system measurement
- Platform scales

DESCRIPTION

TankMount Weigh Modules are well suited for general industrial applications that require retrofitting an existing structure or hopper into a scale. TankMount uses a stainless steel beam transducer coupled with semi-floating mounting hardware. Correctly radially installed weigh modules result in a checkless system that is able to handle moderate degrees of thermal expansion and contraction.

TankMount weight modules come in capacity ranges of 500, 1000, 2000, 5000 kg with plated steel hardware as a standard, optionally in stainless steel. Load beam sealing meets IP68 and IP69K requirements.

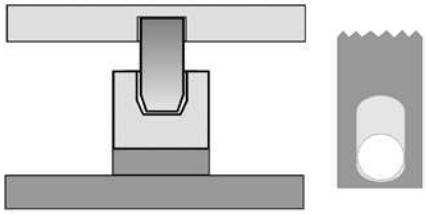
CONFIGURATION



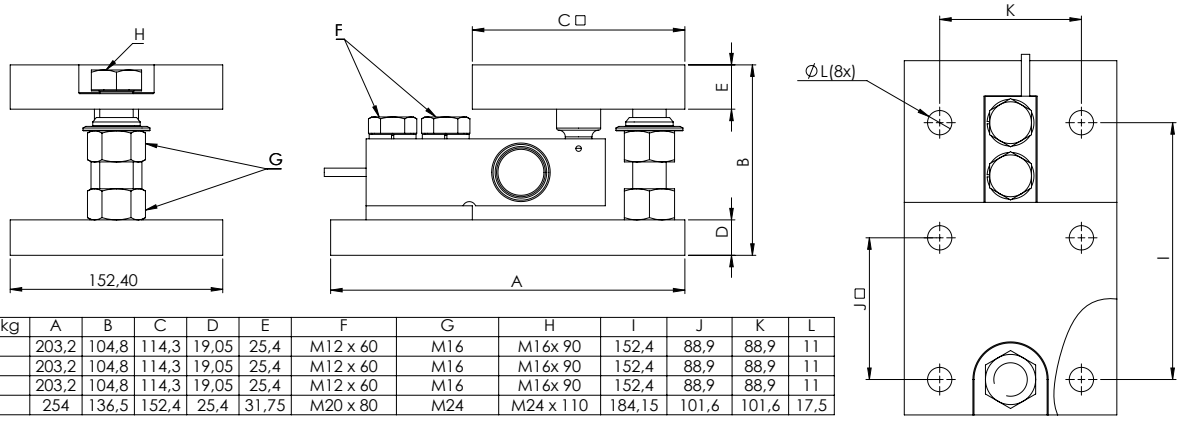
Load Cell Weigh Modules

SEMI FLOATING MODULE

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.



OUTLINE DIMENSIONS



Range kg	A	B	C	D	E	F	G	H	I	J	K	L
500	203,2	104,8	114,3	19,05	25,4	M12 x 60	M16	M16x 90	152,4	88,9	88,9	11
1000	203,2	104,8	114,3	19,05	25,4	M12 x 60	M16	M16x 90	152,4	88,9	88,9	11
2000	203,2	104,8	114,3	19,05	25,4	M12 x 60	M16	M16x 90	152,4	88,9	88,9	11
5000	254	136,5	152,4	25,4	31,75	M20 x 80	M24	M24 x 110	184,15	101,6	101,6	17,5

Load Cell Weigh Modules

SPECIFICATIONS

PARAMETER	VALUE
PERFORMANCE	
Capacities	500, 1000, 2000, 5000
Rated output (RO)	2.0 mV/V (±1%)
Repeatability	0.01% RO
Combined error	0.02% RO (beam only), 0.10% module assembly
Zero balance	2.0% RO
Creep (30 minutes)	0.03% RO
Temperature effects on zero balance	0.0023% RO/°C
Temperature effects on rated output	0.0010% RO/°C
ELECTRICAL	
Recommended excitation	10 VDC (15 VDC max.)
Input resistance	380 Ω (±10)
Output resistance	355 Ω (±5)
Cable length	5m, 6 conductor cable
TEMPERATURE	
Safe temperature	-30 to +80°C
Compensated range	-10 to +40 °C

PARAMETER	VALUE	
ADVERSE LOAD RATINGS		
Safe overload	150% rated capacity	
Safe sideload	100% rated capacity	
Ultimate overload	300% rated capacity	
MATERIAL		
	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 plated steel	304 stainless steel
Beam spacer	zink plated steel	304 stainless steel
Locating washer	304 stainless steel	304 stainless steel
SEALING		
Load beam	IP68 and IP69K	
APPROVALS		
ATEX, NTEP, OIML and cFMus certified versions are available upon request. For details contact blhnobel@vpgsensors.com.		

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

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