

Load Cell Weigh Module

FEATURES

- Capacity range: 10K, 15K, 25K, 35K, 50K, and 75K lb (4.5K, 6.8K, 11.3K, 15.8K, 22.7K, and 34K kg)
- Self-checking design allows for thermal expansion
- Conduit adapter available (stainless steel modules) ideally suited for applications with high deadload-to-liveload ratios
- Electroless nickel-plated load beam standard, welded stainless-steel load beam available
- Sealed to IP67 standards
- FM approved

APPLICATIONS

- Storage tank, bin, and hopper weighing
- Silo and inventory measurement systems
- Loss-in-weight feeders

DESCRIPTION

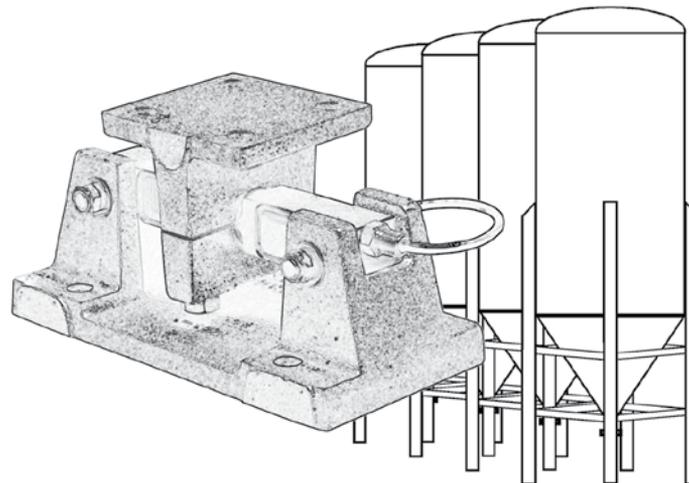
PRO-Mount Weigh Modules are specifically engineered to meet the requirements of inventory and ingredient management weighing applications. Checkless design (no stay or check rods), low profile, and uniform bolt spacing simplify installation on new and existing vessels. An integral expansion assembly and temperature compensated full bridge transducer design, minimize temperature effects allowing accurate measurement indoors or out, in virtually any environment.



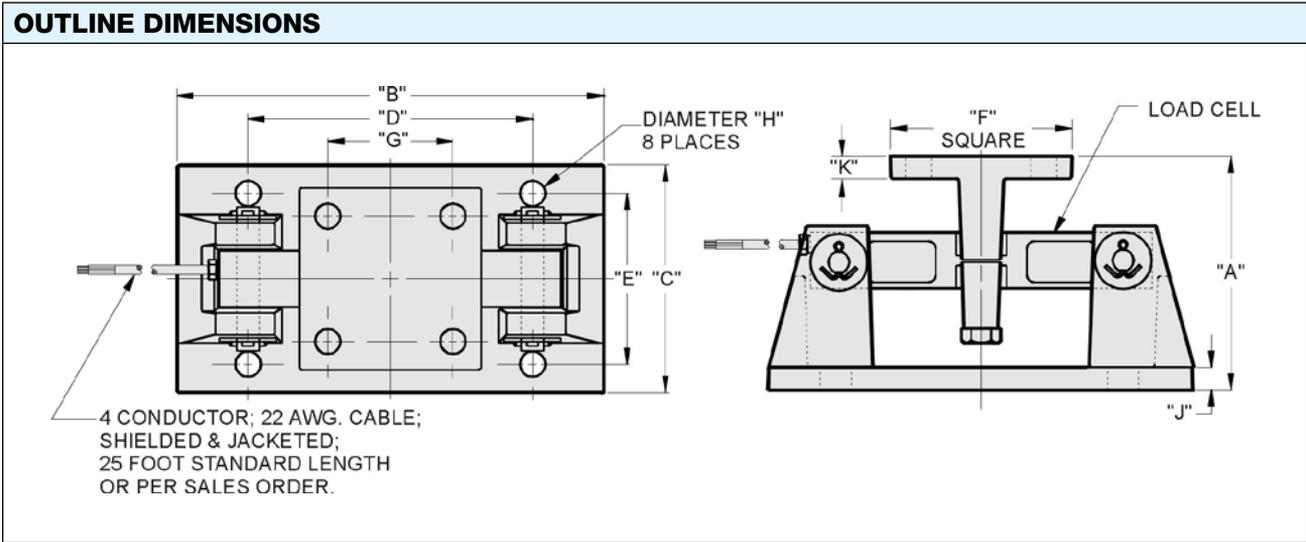
Optional stainless steel, welded units are available for caustic or washdown environments. Stainless steel units also have an integral conduit adapter.

PRO-Mount design considerations ensure an efficient balance between performance as a transducer and strength as a structural member when earthquake risk or wind resistance is a system factor. Sideloads of up to 100% full scale capacity, caused by vibration or other extraneous forces, virtually have no effect on weight measurement.

CONFIGURATION



Load Cell Weigh Module



PARAMETER		VALUE	PARAMETER		VALUE
PERFORMANCE					
Capacities	10K, 15K, 25K, 35K, 50K, and 75K lb (4.5K, 6.8K, 11.3K, 15.8K, 22.7K, and 34K kg)				
Rated output (RO)	3.0 mV/V ±0.25%				
Repeatability	0.01% RO				
Combined error	0.03% RO				
Zero balance	1.0% RO				
Creep (20 minutes)	0.03% RO				
Temperature effects on zero balance	0.0015% RO/°F				
Temperature effects on span	0.0008% Load/°F				
ELECTRICAL					
Recommended excitation	10 VDC (15 VDC max.)				
Input resistance	686–714 Ω				
Output resistance	699–707 Ω				
Cable length	25-ft cable with 4-wire polyurethane jacket				
TEMPERATURE					
Safe range	–0 to 150°F				
Compensated range	+14 to 104°F				
ADVERSE LOAD RATINGS					
Safe load	150% rated capacity				
Safe sideload	100% rated capacity				
Ultimate load	300% rated capacity				
MATERIAL					
Beam (standard)	Tool steel, electroless nickel plated				
Beam (option)	17-4 PH stainless steel				
Mounting hardware (standard)	cast steel, zinc plated				
Mounting hardware (option)	stainless steel				
SEALING					
Environmental class	IP67 plated				
DEFLECTION					
10K–25K lb	0.022 in				
35K lb	0.038 in				
50K lb	0.052 in				
75K lb	0.070 in				

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



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