

Load Cell

FEATURES

- Capacity range 200 kN
- Simple installation
- Moveable load point
- Withstands very high lateral forces
- Accurate and rugged
- ATEX and IECEx certified for hazardous locations upon request

APPLICATIONS

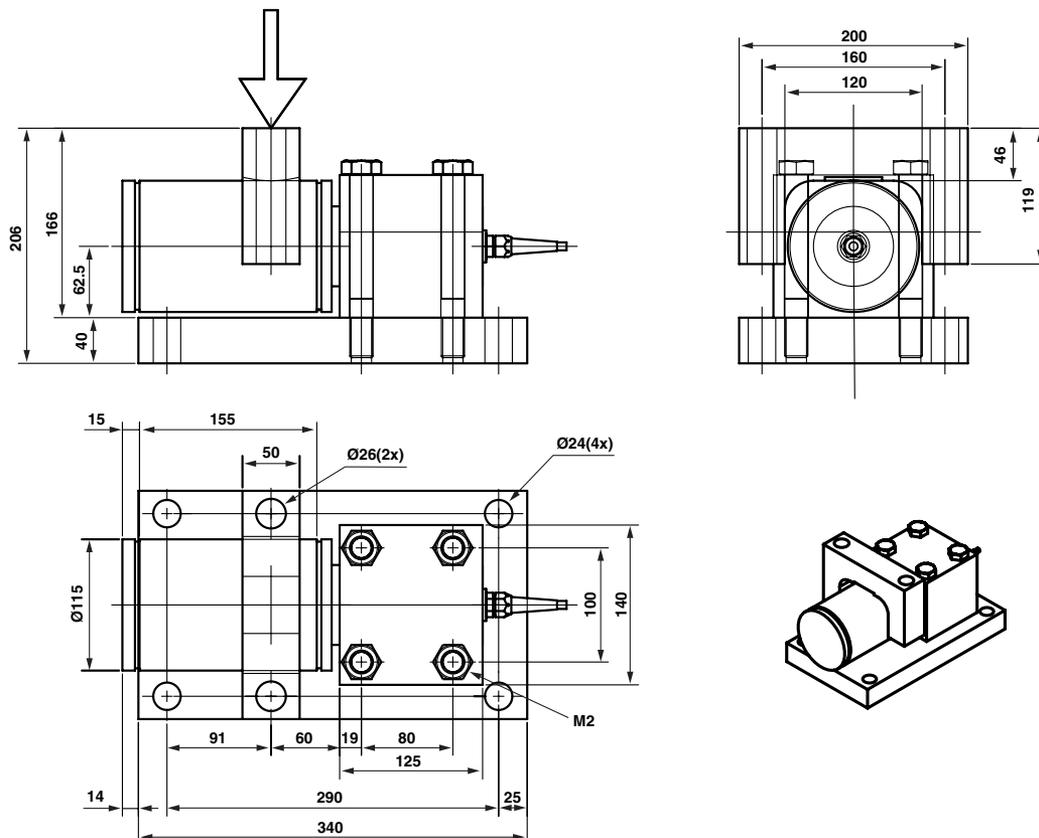
- Silo/bin/hopper inventory weighing systems
- Mixing and blending tanks
- Force measurement systems
- Conveyors

DESCRIPTION

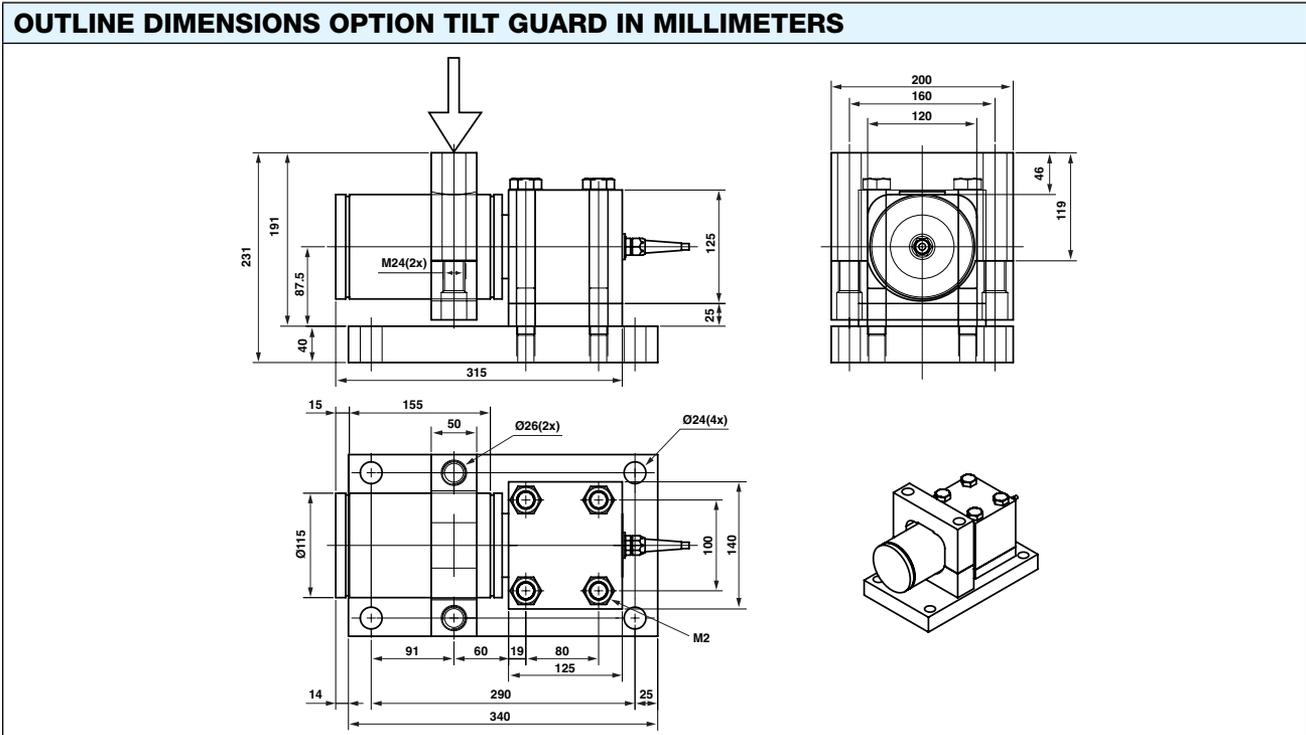
The KIM-1 load cell has several features that distinguish it from other load cells. It is easy to install and extremely accurate, even when subjected to disruptive industrial forces and harsh environmental conditions. All KIM load cells can be ATEX and IECEx certified for use in explosive atmospheres.



OUTLINE DIMENSIONS IN MILLIMETERS



Load Cell



SPECIFICATIONS		PARAMETER	VALUE
PARAMETER	VALUE	PARAMETER	VALUE
Rated load (RL)	200 kN	Creep at RL after 30 min	±0.03% RL
Combined error (terminal)	±0.1% RL	Temperature range	-40 to +80°C; -40 to +100°C on demand
Repeatability	0.02% RL	Temperature effect (-10 to +50°C) on output	±0.003 % of output/°C
Safe load	150% RL ⁽¹⁾	Temperature effect (-10 to +50°C) on zero balance	±0.003 % of RO/°C
Ultimate load	200% RL ⁽¹⁾	Deflection at RL	0.1-0.3 mm
Ultimate sideload	100% RL ⁽¹⁾	Insulation resistance at 200 VDC	>4 GΩ
Input voltage, recommended	10 VDC or VAC	Electrical connection	10 m four conductor cable
Input voltage, maximum	18 VDC or VAC	Material	Zinc plated steel
Input resistance	350 Ω ±5 Ω	Sealing	IP67
Output resistance	350 Ω ±0.5 Ω	APPROVALS	
Rated output (RO)	2.040 mV/V	ATEX, IECEx certified versions are available upon request. For details contact blhnobel@vpgsensors.com .	
Tolerance of RO	±0.25% RO		
Zero balance	±2% RO		
Tolerance of shunt calibration values	±0.25%		

(1) Referring to recommended loading point

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

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