

Weigh module

FEATURES

- Capacity range: 5, 10, 20, 50, and 100 kN (1.12K, 2.25K, 4.5K, 11.2K, and 22.5K lb)
- Easy installation
- Moveable load point
- Withstands very high lateral forces
- Extremely accurate and rugged
- ATEX and IECEx certified for hazardous locations

APPLICATIONS

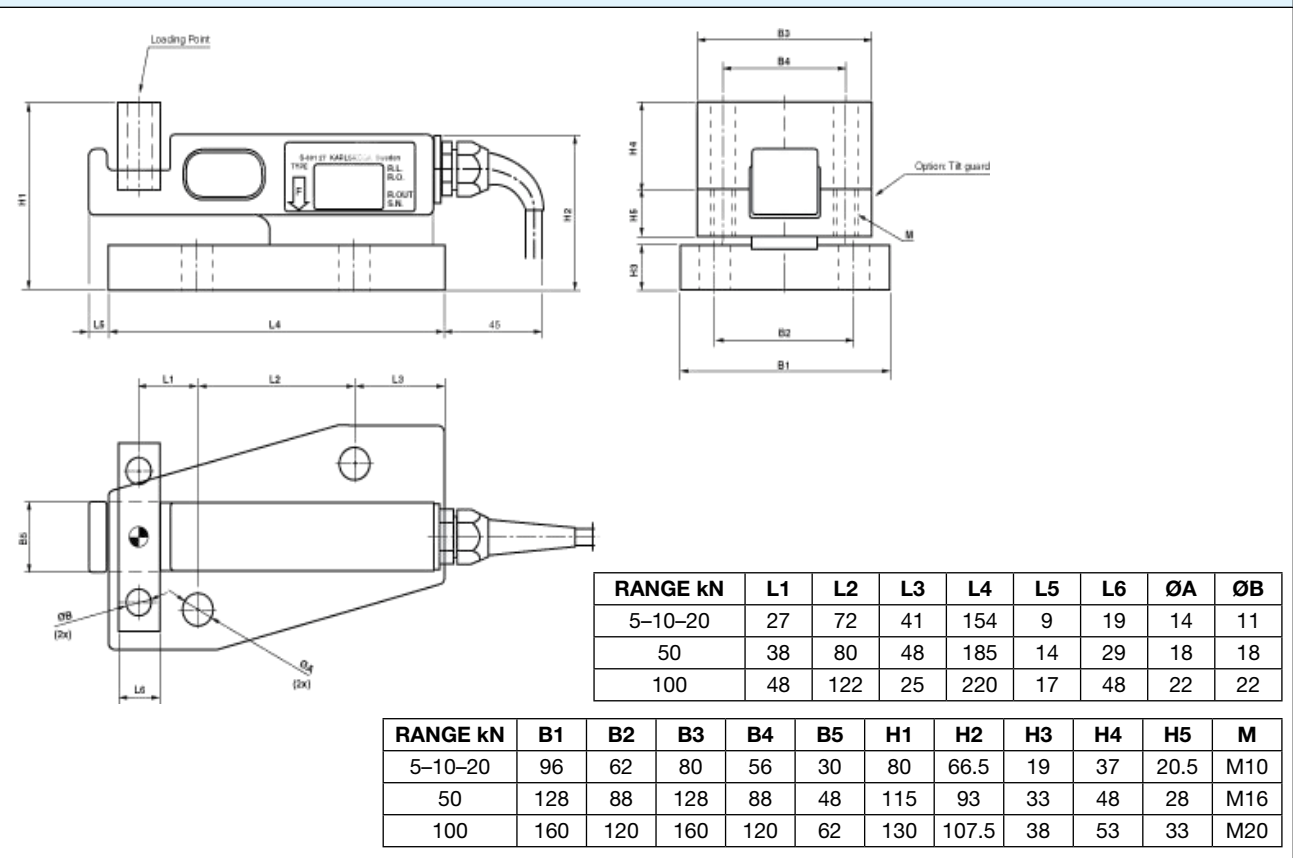
- Silo, bin and hopper weighing
- Inventory control systems
- Industrial conveyors
- Force measurement systems

DESCRIPTION

The KIS-9 load cell has several features that clearly distinguish it from other load cells. It is easy to install and extremely accurate, even when subjected to vibration forces and severe environmental conditions. All KIS load cells can be ATEX and IECEx certified for use in explosive atmospheres.



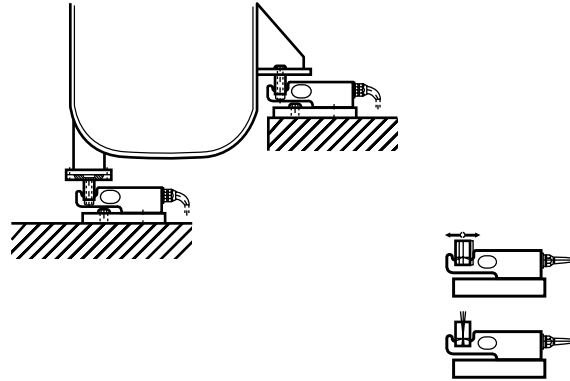
OUTLINE DIMENSIONS



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Weigh Module

INSTALLATION EXAMPLES



SPECIFICATIONS

| PARAMETER | VALUE |
|---------------------------------------|---------------------------------|
| Rated load (RL) | 5, 10, 20, 50, 100 kN |
| Combined error (terminal) | ±0.1% RO |
| Repeatability | 0.02% RO |
| Safe load | 150% RL ⁽¹⁾ |
| Ultimate load | 200% RL ⁽¹⁾ |
| Ultimate sideload | 100% RL ⁽¹⁾ |
| Input voltage, recommended | 10 VDC or VAC |
| Input voltage, maximum | 18 VDC or VAC |
| Input resistance | 350 Ω ±5 Ω |
| Output resistance | 350 Ω ±1 Ω |
| Rated output (RO) | 1.020 mV/V |
| Tolerance of (RO) | ±0.25% RO |
| Zero balance | ±2% RO |
| Tolerance of shunt calibration values | ±0.25 % of value ⁽²⁾ |
| Creep at R.L. after 30 minutes | ±0.03% RL |

| PARAMETER | VALUE |
|---|---|
| Temperature range | -40 to +80°C (+100°C) ⁽³⁾ |
| Temperature effect on output (-10°C to +50°C) | ±0.003% of output/°C |
| Temperature effect on zero balance (-10°C to +50°C) | ±0.003% of RO/°C |
| Insulation resistance at 200 VDC | >4 GΩ |
| Material | Stainless steel |
| Electrical connection | 5 m shielded four conductor cable 5, 10, and 20 kN |
| | 10 m shielded four conductor cable 50 and 100 kN |
| Degree of protection | IP67 |
| APPROVALS | |
| ATEX, IECEx certified versions are available upon request. For details contact blhnobel@vpgsensors.com. | |

(1) Referring to recommended loading point

(2) See calibration sheet of the load cell

(3) -40 to +100°C on demand

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

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