

Weigh Module

FEATURES

- Capacity range: 1, 2, 5, 10, 20, 30, 50, 100, and 200 kN (225, 450, 1.12K, 2.25K, 4.5K, 6.75K, 11.2K, 22.4K, and 44.9K lb)
- Easy installation
- Moveable load point
- Withstands very high lateral forces
- Extremely accurate and rugged
- FM, ATEX and IECEx certified for hazardous locations

APPLICATIONS

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

DESCRIPTION

The KIS-8 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



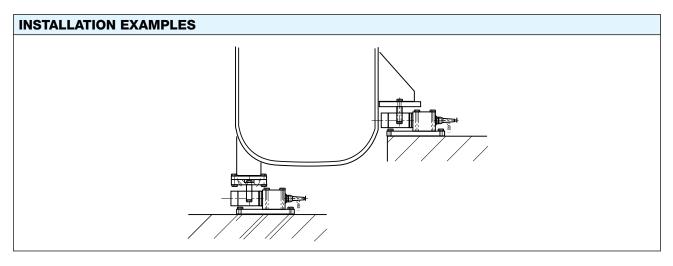
forces and harsh environmental conditions. All KIS load cells can be FM, ATEX and IECEx certified for use in explosive atmospheres.

| OUTLINE I | DIMEN | ISIO | NS | | | | | | | | | | | | | | | |
|--|-------|------|------|------|-----|------|----|------|------|---------|----|----------|------|------|-----|-----------|-----|-----|
| Recommended Loading Point B2 | | | | | | | | | | | | | | | | | | |
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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | | | | | | | |
| RANGE kN | A1 | A2 | A3 | A4 | A5 | A6 | A7 | B1 | B | 62 E | 33 | B4 | B5 | С | ØD | E | F | G |
| 1–2 | 175 | 151 | 12 | 31 | 31 | 19 | -6 | 75 | 7 | 0 5 | 51 | 55 | 48 | 14 | 33 | 54 | 39 | 78 |
| 5-10-20-30 | 204 | 180 | 12 | 32 | 50 | 19 | 21 | 100 |) 1(| 00 7 | 76 | 75 | 73 | 12 | 50 | 56 | 53 | 79 |
| 50 | 280 | 245 | 17.5 | 46.5 | 65 | 28 | 21 | 150 |) 1: | 50 1 | 15 | 115 | 97 | 14 | 75 | 72 | 72 | 97 |
| 100 | 310 | 270 | 20 | 63 | 65 | 40 | 22 | 170 |) 16 | 50 1 | 30 | 126 | 118 | 15 | 90 | 78 | 88 | 108 |
| 200 | 340 | 300 | 20 | 71 | 65 | 50 | 37 | 180 |) 19 | 90 1· | 40 | 146 | 132 | 16 | 100 | 92 | 96 | 128 |
| RANGE kN | H1 | H2 | H3 | H4 | H5 | H6 | H7 | I | J | ØК | | L | ØN | 1 P | Cir | clip (2x) | R | S |
| 1–2 | 81 | 14 | 67 | 41 | 48 | 27.5 | 14 | 22 | 30 | 8.5 | Ν | /16 x 60 | 11 | 16 | 32 | 2 x 1.5 | M8 | 19 |
| 5–10–20–30 | 107.5 | 18 | 89.5 | 54 | 68 | 38.5 | 18 | 26.5 | 77 | 11 | Μ | 110 x 80 | 12 | 11.5 | 5 5 | 50 x 2 | M10 | 27 |
| 50 | 152 | 28 | 124 | 72 | 94 | 54.5 | 28 | 36 | 98 | 18 | M | 12 x 110 |) 15 | 17 | 7 | 5 x 2.5 | M16 | 43 |
| 100 | 173 | 28 | 145 | 85 | 108 | 65 | 38 | 57 | 96 | 22 | M | 16 x 140 |) 22 | 17 | 9 | 90 x 3 | M20 | 50 |
| 200 | 199 | 36 | 163 | 95 | 118 | 72 | 48 | 80 | 96 | 25 | M | 20 x 150 |) 25 | 17 | 1 | 00 x 3 | M24 | 57 |

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Weigh Module



| SPECIFICATIONS | | | | | | | |
|---------------------------------|--------------------------------------|--|---|--|--|--|--|
| PARAMETER | VALUE | PARAMETER | VALUE | | | | |
| Rated load (RL) | 1, 2, 5, 10, 20, 30, 50, 100, 200 kN | Creep at RL after | ±0.03% RL | | | | |
| Combined error (terminal) | ±0.075% RO | 30 minutes | | | | | |
| Repeatability | 0.02% RO | Temperature range | -40 to +80°C (+100°C) ⁽³⁾ | | | | |
| Safe load | 150% RL ⁽¹⁾ | Temperature effect on output (-10°C to +50°C) | ±0.003% of output/°C | | | | |
| Ultimate load | 200% RL ⁽¹⁾ | Temperature effect | ±0.003% of RO/°C | | | | |
| Ultimate sideload | 100% RL ⁽¹⁾ | on zero balance (-10°C to +50°C) | | | | | |
| Input voltage, recom- mended | 5-10 VDC or VAC | Insulation resistance at 200 VDC | >4 GΩ | | | | |
| Input voltage, maximum | 18 VDC or VAC | Material | Stainless steel | | | | |
| Input resistance | 350 Ω ±5 Ω | Material | 5 m shielded four conductor cable 1-20 kN | | | | |
| Output resistance | 350 Ω ±0.5 Ω | | | | | | |
| Rated output (RO) | 2.040 mV/V | Electrical connection | 10 m shielded four conductor cable 50-200 kN | | | | |
| Tolerance of (RO) | ±0.25% RO | | | | | | |
| Zero balance | ±2% RO | Degree of protection | IP67 | | | | |
| Tolerance of shunt | | APPROVALS | | | | | |
| calibration values | ±0.25% of value ⁽²⁾ | FM, 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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