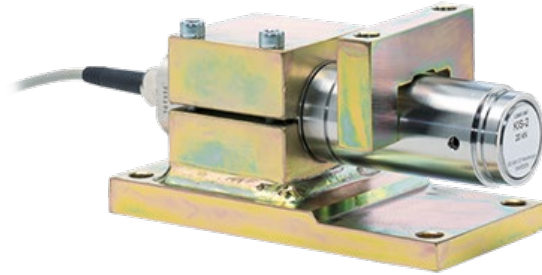


Weigh Module

FEATURES

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



APPLICATIONS

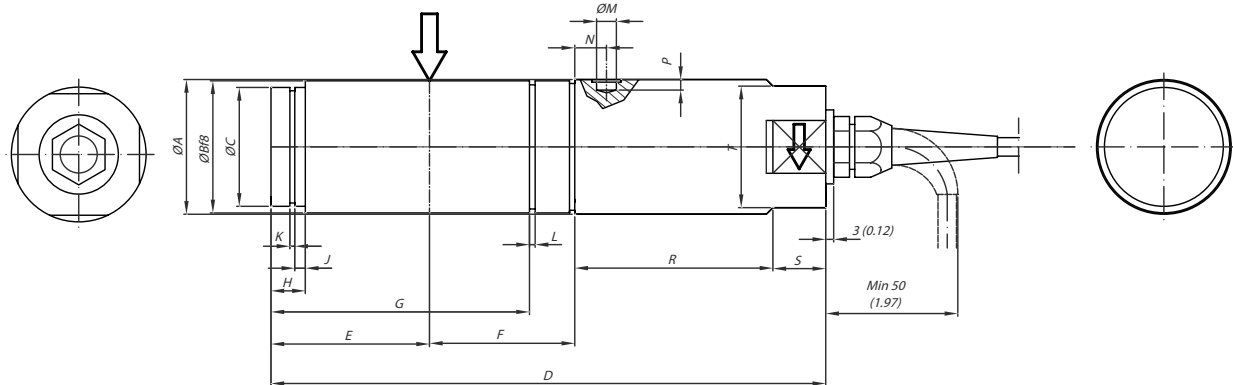
- Batch/blend/mix systems
- Reactor vessels
- Quality-critical process weighing
- Precision force measurement
- Conveyor belts
- Web tension



DESCRIPTION

KIS-2 load cells have several features that clearly distinguish them from other load cells. They are easy to install and extremely accurate, even when subjected to dynamic process forces and severe environmental conditions. All KIS load cells can be ATEX, IECEx, FM, CSA certified for use in explosive atmospheres.

OUTLINE DIMENSIONS

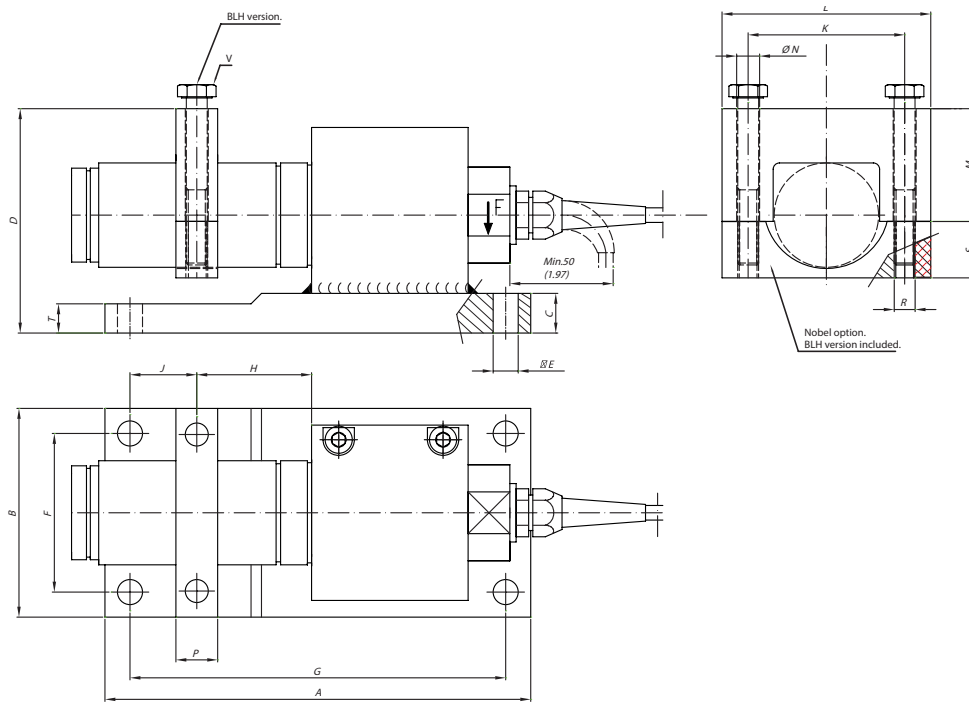


| RANGE kN (lb) | ØA | ØB | ØC | D | E | F | G | H | J | K | L | ØM | N | P | R | S | T |
|------------------|--------------|--------------|--------------|----------------|--------------|--------------|-----------------|--------------|---------------|----------------|----------------|---------------|--------------|---------------|---------------|--------------|--------------|
| 1-2-5 | 34 (1.34) | 33 (1.30) | 29 (1.14) | 169 (6.65) | 46 (1.81) | 35 (1.38) | - | 10 (0.39) | 2.5 (0.10) | 1.6 (0.06) | - | 4.4 (0.17) | 10 (0.39) | 2.3 (0.09) | 70 (2.75) | 15 (0.59) | 30 (1.18) |
| 10-20-30 | 51 (2.00) | 50 (1.97) | 45 (1.77) | 213 (8.38) | 60 (2.36) | 55 (2.16) | 97.85 (3.85) | 13 (0.51) | 4 (0.16) | 1.85 (0.07) | 2.15 (0.08) | 7.5 (0.29) | 12 (0.47) | 5 (0.20) | 75 (2.95) | 20 (0.79) | 46 (1.81) |
| 50 | 77 (3.03) | 75 (2.95) | 70 (2.76) | 288 (11.34) | 93 (3.66) | 65 (2.56) | 141.3 (5.56) | 12 (0.47) | 5 (0.20) | 2.65 (0.10) | 2.65 (0.10) | 9.1 (0.36) | 14 (0.55) | 7 (0.28) | 110 (4.33) | 20 (0.79) | 60 (2.36) |

Dimension shown in mm (in)

Weigh Module

OUTLINE DIMENSIONS cont.



| RANGE KN | A | B | C | D | ØE | F | G | H | J | K | L | M | ØN | P | T | R | S |
|----------|----------------|---------------|--------------|-----------------|--------------|---------------|---------------|--------------|----------------|---------------|---------------|--------------|---------------|--------------|--------------|-----|--------------|
| 1-2-5 | 175 (6.89) | 75 (2.95) | 14 (0.55) | 81 (3.19) | 12 (0.47) | 51 (2.01) | 151 (5.94) | 35 (1.38) | 31 (1.22) | 55 (2.17) | 70 (2.76) | 41 (1.61) | 8.5 (0.33) | 20 (0.88) | 14 (0.55) | M8 | 19 (0.75) |
| 10-20-30 | 204 (8.03) | 100 (3.93) | 19 (0.75) | 107.5 (4.23) | 12 (0.47) | 76 (2.99) | 180 (7.08) | 55 (2.16) | 32 (1.26) | 75 (2.95) | 100 (3.93) | 54 (2.12) | 11 (0.43) | 20 (.79) | 14 (0.55) | M10 | 27 (1.06) |
| 50 | 280 (11.02) | 150 (5.90) | 30 (1.18) | 152 (5.98) | 16 (0.63) | 115 (4.53) | 245 (9.64) | 65 (2.56) | 45.5 (1.79) | 115 (4.53) | 150 (5.90) | 72 (2.83) | 18 (0.71) | 30 (1.18) | 30 (1.18) | M16 | 43 (1.69) |

| RANGE KN | V |
|----------|-----------------------|
| 1-2-5 | M8-1.25X70 (2.755) LG |
| 10-20-30 | M10-1.5X90 (3.543) LG |
| 50 | M16-2X120(4.724) LG |

Dimension shown in mm (in)

Weigh Module

| SPECIFICATIONS | |
|--|---|
| PARAMETER | |
| PERFORMANCE | |
| Rated load (RL) | 1, 2, 5, 10, 20, 30, 50 kN |
| Combined error (terminal) | ±0.05% RO |
| Repeatability | 0.01% RO |
| Overload,* safe | 200% RL, 150% RL for 30 kN and 50 kN |
| Overload,* ultimate | 300% RL, 200% RL for 30 kN and 50 kN** |
| Uplift, safe | 100% RL |
| Uplift, ultimate | 120% RL |
| Side load,* safe | 100% RL, 50% RL for 30 kN |
| Side load,* ultimate | 200% RL, 100% RL for 30 kN |
| Input voltage, recommended | 10 VDC or VAC |
| Input voltage, maximum | 18 VDC or VAC |
| Input resistance | 350 Ω ±3 Ω |
| Output resistance | 350 Ω ±3 Ω |
| Rated output (RO) | 2.040 mV/V |
| Tolerance of RO | ±0.25% RO |
| Zero balance | ±5% RO |
| Tolerance of shunt calibration values | ±0.25% of value |
| Creep at RL after 30 minutes | ±0.03% RL |
| Temperature range (wider temperature range available upon request) | -40 to +105°C -40 to +212°F |
| Temperature effect, on output (-10°C to +50°C) | ±0.0033% of output/°C ±0.00018% of output/°F |
| Temperature effect, on zero balance (-10°C to +50°C) | ±0.0014% of RO/°C ±0.0008% of RO/°F |
| Insulation resistance at 200 VDC | >4 GΩ |
| Material: Load cell | Stainless steel |
| Material bracket, yoke and tilt guard | Yellow chromate steel, stainless steel as an option |
| Electrical connection | 10 m shielded four conductor cable (BLH version) |
| | 5 m shielded four conductor cable (Nobel version) |
| Degree of protection | IP67 |
| APPROVALS | |
| ATEX, IECEx, FM, CSA certified versions are available upon request. For details contact blhnobel@vpgsensors.com . | |

* Referring to recommended loading point.

** 50 kN BLH version only.

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