

Weigh Module

FEATURES

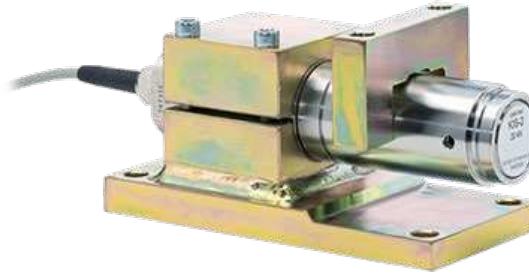
- Capacity range: 1, 2, 5, 10, 20, 30, and 50 kN (225, 450, 1.12K, 2.25K, 4.5K, 6.75K, and 11.2 K lb)
- Easy installation
- Moveable load point
- Withstands very high lateral forces
- Extremely accurate and rugged
- ATEX, IECEx, FM, CSA certified for hazardous locations

APPLICATIONS

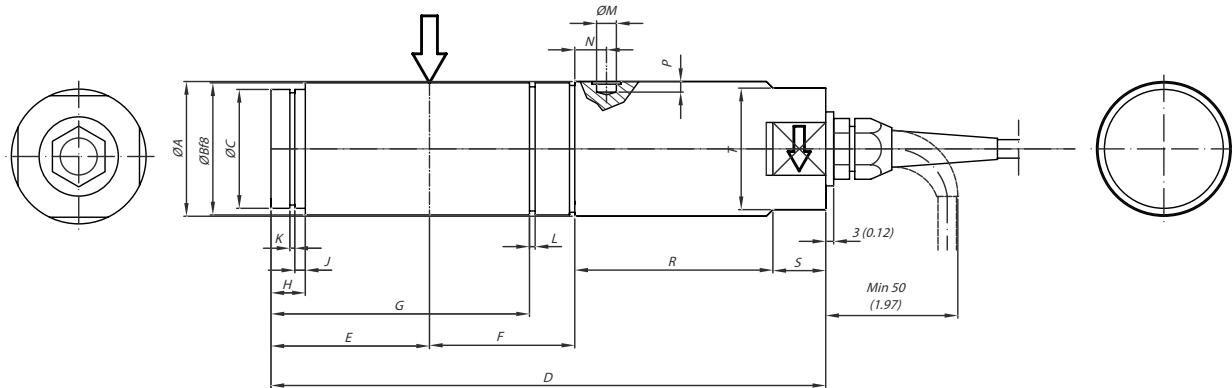
- Batch/blend/mix systems
- Reactor vessels
- Quality-critical process weighing
- Precision force measurement
- Conveyor belts
- Web tension

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

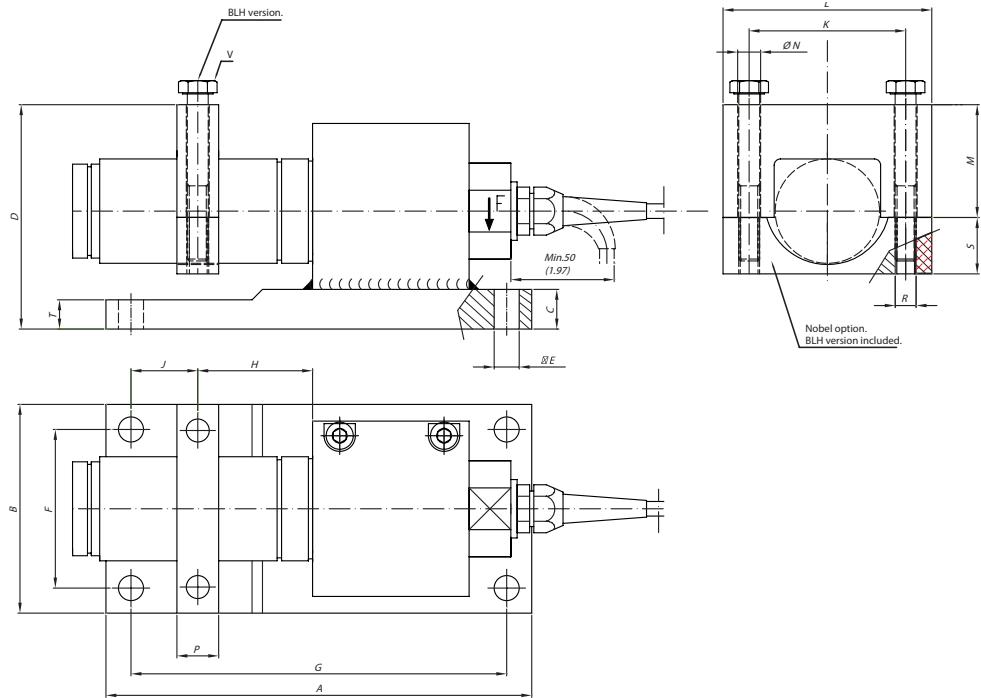


RANGE kN	ØA	ØB	ØC	D	E	F	G	H	J	K	L	ØM	N	P	R	S	T
1-2-5	34 (1.34)	33 (1.30)	29 (1.14)	166 (6.54)	46 (1.81)	35 (1.38)	-	10 (0.39)	2.5 (0.10)	1.6 (0.06)	-	4.4 (0.17)	10 (0.39)	3 (0.12)	70 (2.75)	15 (0.59)	30 (1.18)
10-20-30	51 (2.00)	50 (1.97)	45 (1.77)	210 (8.27)	60 (2.36)	55 (2.16)	97.85 (3.85)	13 (0.51)	4 (0.16)	1.85 (0.07)	2.15 (0.08)	7.5 (0.29)	12 (0.47)	4 (0.16)	75 (2.95)	20 (0.79)	46 (1.81)
50	77 (3.03)	75 (2.95)	70 (2.76)	288 (11.34)	95 (3.74)	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)	12 (0.47)	8.5 (0.33)	108 (4.25)	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)	19 (0.75)	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)	19 (0.75)	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)	29 (1.14)	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, IECEEx, 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.



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