Weigh Module

FEATURES

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

APPLICATIONS

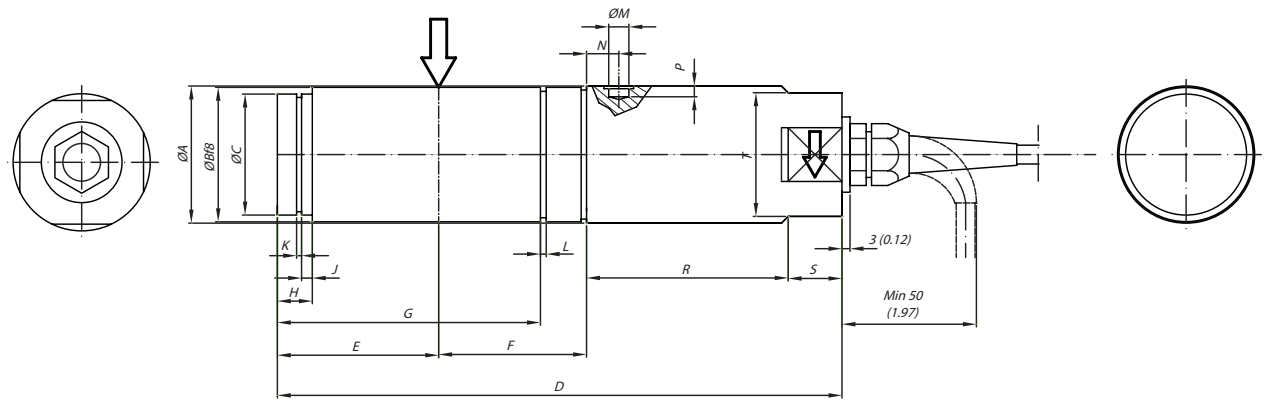
- Batch/blend/mix systems
- Reactor vessels
- Quality-critical process weighing
- Precision force measurement
- Conveyor belts
- Web tension

DESCRIPTION

High-accuracy KIS-3 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 IN MILLIMETERS (INCHES)



RANGE kN (lb)	ØA	ØB	ØC	D	E	F	G	H	J	K	L	ØM	N	P	R	S	T
1-2-5 (225–450–1.2K)	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 (2.25–4.5K)	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)

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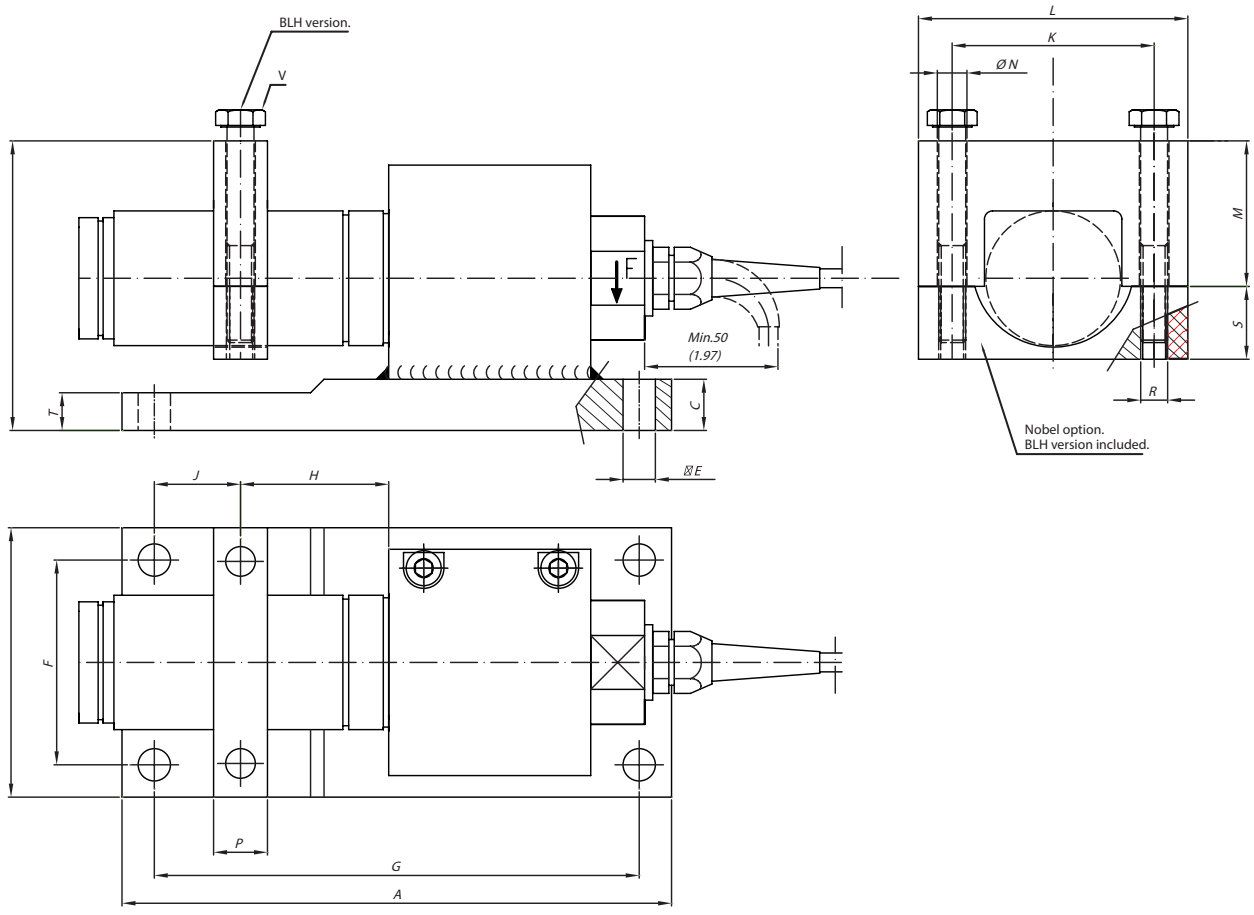
OUTLINE DIMENSIONS IN MILLIMETERS (INCHES) Cont.



RANGE kN (lb)	A	B	C	D	ØE	F	G	H	J	K	L	M	ØN	P	T	R	S
1-2-5 (225–450–1.2K)	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 (2.25–4.5K)	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)0	14 (0.55)	M10	27 (1.06)

RANGE kN (lb)	V
1-2-5 (225–450–1.2K)	M8-1.25X70 (2.755) LG
10-20 (2.25–4.5K)	M10-1.5X90 (3.543) LG

Technical contact: blhnobel.usa@vpgsensors.com,
Europe: blhnobel.eur@vpgsensors.com, Asia: blhnobel.asia@vpgsensors.com
Document No.: 12310
Revision: 05-Jun-2016

Weigh Module

SPECIFICATIONS	
PARAMETER	
PERFORMANCE	
Rated load (RL)	1, 2, 5, 10, 20 kN
Combined error (best fit through zero)	±0.02% RO
Repeatability	0.01% RO
Overload,* safe	200% RL
Overload,* ultimate	300% RL
Uplift, safe	100% RL
Uplift, ultimate	120% RL
Side load,* safe	100% RL
Side load,* ultimate	200% RL
Input voltage, recommended	10 VDC or VAC
Input voltage, maximum	18 VDC or VAC
Input resistance	350 Ω ±3 Ω
Output resistance	350 Ω ±0.5 Ω
Rated output (RO)	2.040 mV/V
Tolerance of RO	±0.1% RO
Zero balance	±1% RO
Tolerance of shunt calibration values	±0.1% of value (actual output listed on unit calibration sheet)
Creep at RL after 30 minutes	±0.01% RL
Temperature range (wider temperature range available upon request	–40 to +105°C –40 to +220°F
Temperature effect, on output [–10°C to +50°C (14 to 120°F)]	±0.001% of output/°C ±0.0008% of output/°F
Temperature effect, on zero balance [–10°C to +50°C (14 to 120°F)]	±0.001% 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 upon request
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 , NTEP and OIML certified versions are available upon request. For details contact blhnobel@vpgsensors.com.	

* Referring to recommended loading point

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