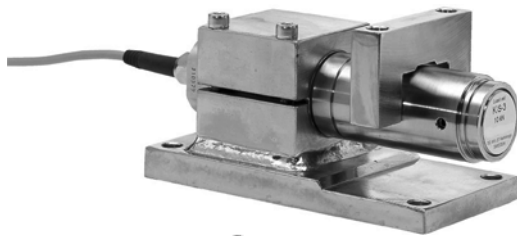


Weigh Module



FEATURES

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

DESCRIPTION

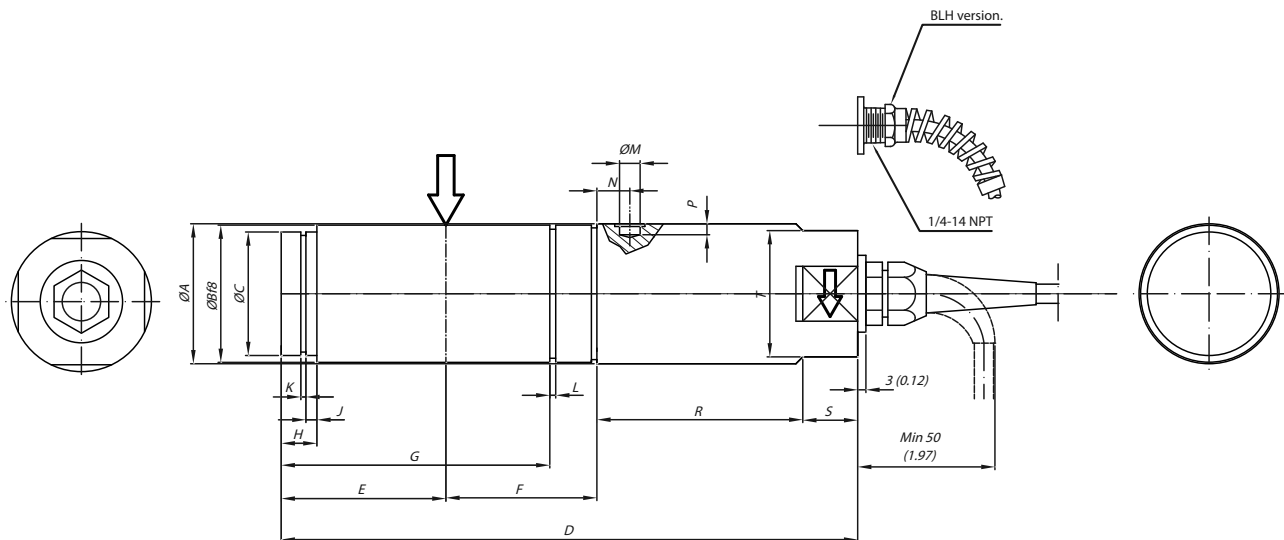
High-accuracy KIS-3 load cells have several features that clearly distinguish them from other load cells. They are easy to install and extremely accurate, even when subjected to dynamic process forces and

severe environmental conditions. All KIS load cells can be ATEX/FM/CSA certified for use in explosive atmospheres.

APPLICATIONS

- Quality-critical process weighing
- Batch/blend/mix systems
- Reactor vessels
- High-value ingredient weighing
- Precision force measurement

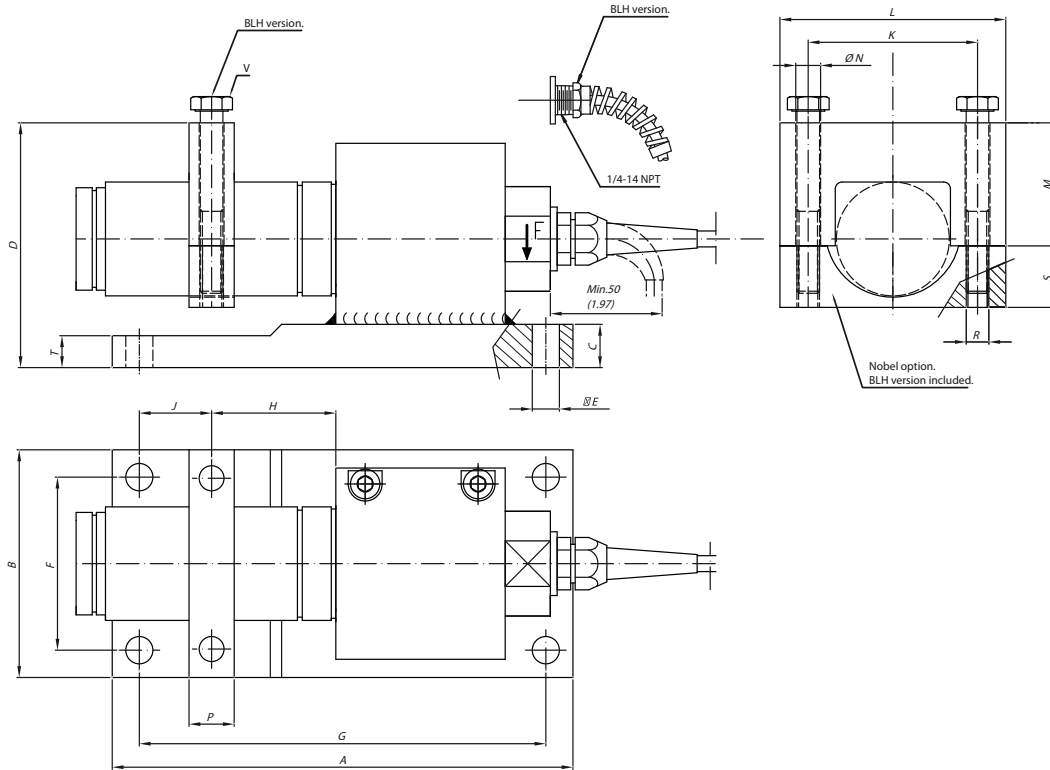
OUTLINE DIMENSIONS



RANGE kN	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 (.39)	2.5 (.10)	1.6 (.06)	-	4.4 (.17)	10 (.39)	2.3 (.09)	70 (2.76)	15 (.59)	30 (1.18)
10-20 (2.25 - 4.5k)	51 (2.01)	50 (1.97)	45 (1.77)	213 (8.39)	60 (2.36)	55 (2.17)	97.85 (3.85)	13 (.51)	4 (.16)	1.85 (.07)	2.15 (.08)	7.5 (.30)	12 (.47)	5 (.20)	75 (2.95)	20 (.79)	46 (1.81)

Dimension shown in MM (inch)

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 (225-450-1.2k)	175 (6.89)	75 (2.95)	14 (.55)	81 (3.19)	12 (.47)	51 (2.01)	151 (5.94)	35 (1.38)	31 (1.22)	55 (2.17)	70 (2.74)	41 (1.61)	8.5 (.33)	20 (.79)	14 (.55)	M8 M8	19 (.75)
10-20 (2.25 – 4.5k)	204 (8.03)	100 (3.94)	19 (.75)	107.5 (4.23)	12 (.47)	76 (2.99)	180 (7.09)	55 (2.47)	32 (1.26)	75 (2.95)	100 (3.94)	54 (2.13)	11 (.93)	20 (.79)	14 (.55)	M10 M10	27 (1.06)

RANGE kN	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

Dimension shown in MM (inch)

KIS-3 TECHNICAL DATA

Rated load (R.L.)		1, 2, 5, 10, 20	kN
Combined error (best fit through zero)		±0.02	% of R.O.
Repeatability		0.01	% of R.O.
Overload	Safe	200*	% of R.L.
	Ultimate	300*	% of R.L.
Uplift	Safe	100	% of R.L.
	Ultimate	120	% of R.L.
Sideload	Safe	100*	% of R.L.
	Ultimate	200*	% of R.L.
Input voltage	Recommended	10	V DC or AC
	Maximum	18	V DC or AC
Input resistance		350 ±3	Ohm
Output resistance		350 ±0.5	Ohm
Rated output (R.O.)		2.040	mV/V
Tolerance of R.O.		±0.1	% of R.O.
Zero balance		±1	% of R.O.
Tolerance of shunt calibration values		±0.1	% of value**
Creep at R.L. after 30 minutes		±0.01	% of R.L.
Temperature range		-40 to +105***	°C
		-40 to +220***	°F
Temperature effect (-10°C to +50°C) (14 to 120°F)	On output	±0.001 ±0.0008	% of output/°C % of output/°F
	On zero balance	±0.001 ±0.0008	% of R.O./°C % of R.O./°F
Insulation resistance at 200V DC		>4	Gohm
Material: Load Cell		Stainless steel	
Material bracket, yoke and tilt guard		Yellow chromate steel or stainless steel	
Electrical connection		10 m shielded four conductor cable ²⁾	
		5 m shielded four conductor cable ¹⁾	
Degree of protection		IP 67	
ATEX/FM/CSA certified versions for use in explosive atmospheres are available			
ATEX		II 1 GD EEx ia IIC T4 T _{amb} = 40 °C EEx ia IIC T6 T _{amb} = 60 °C	
FM		3611 (Class I, II, III; Div 1,2; Group A-G)	
CSA		C22.2 (Class I, II, III; Div 1,2; Group A-G)	

* Referring to recommended loading case

** See calibration sheet of the load cell

***Higher on demand

¹⁾ Only Nobel version

²⁾ Only BLH version

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