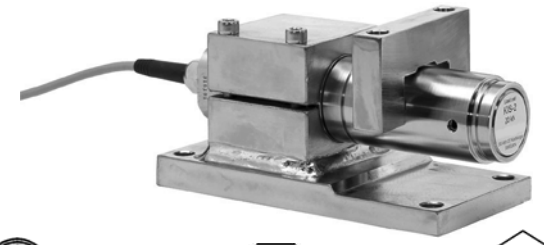
Weigh Module



FEATURES

- Capacity range: 0.5, 2, 5, 10, 20, 30, and 50kN (112, 450, 1.12K, 2.25K, 4.5K, 6.75K, and 11.2Klb)
- Simple installation
- Moveable load point
- Withstands very high lateral forces
- Extremely accurate and rugged
- ATEX/FM/CSA certified for hazardous locations

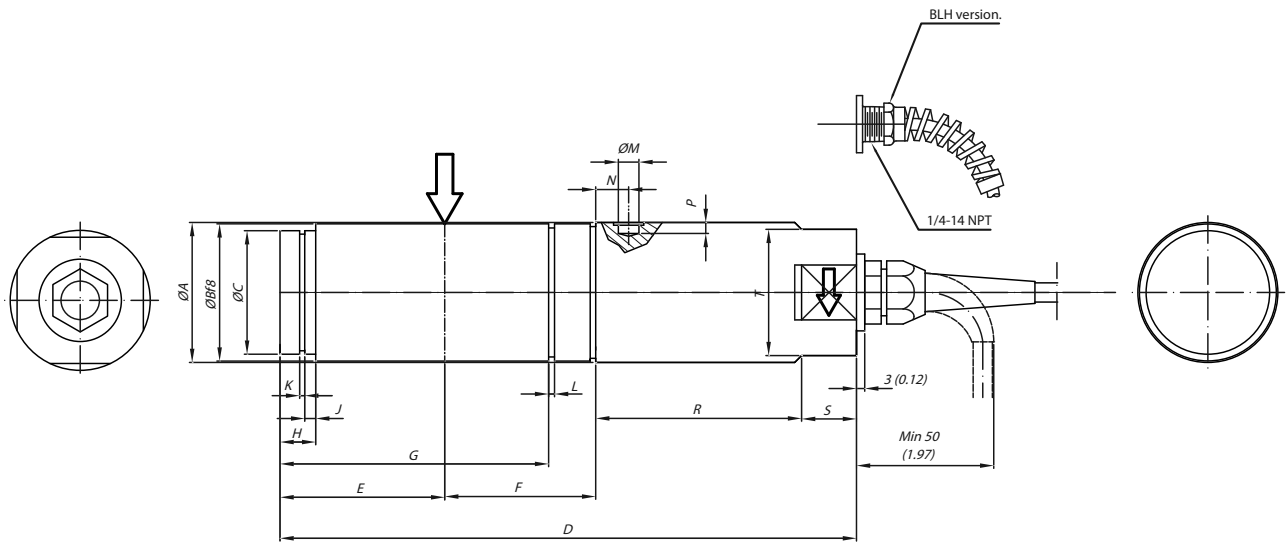
DESCRIPTION

The 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/FM/CSA certified for use in explosive atmospheres.

APPLICATIONS

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

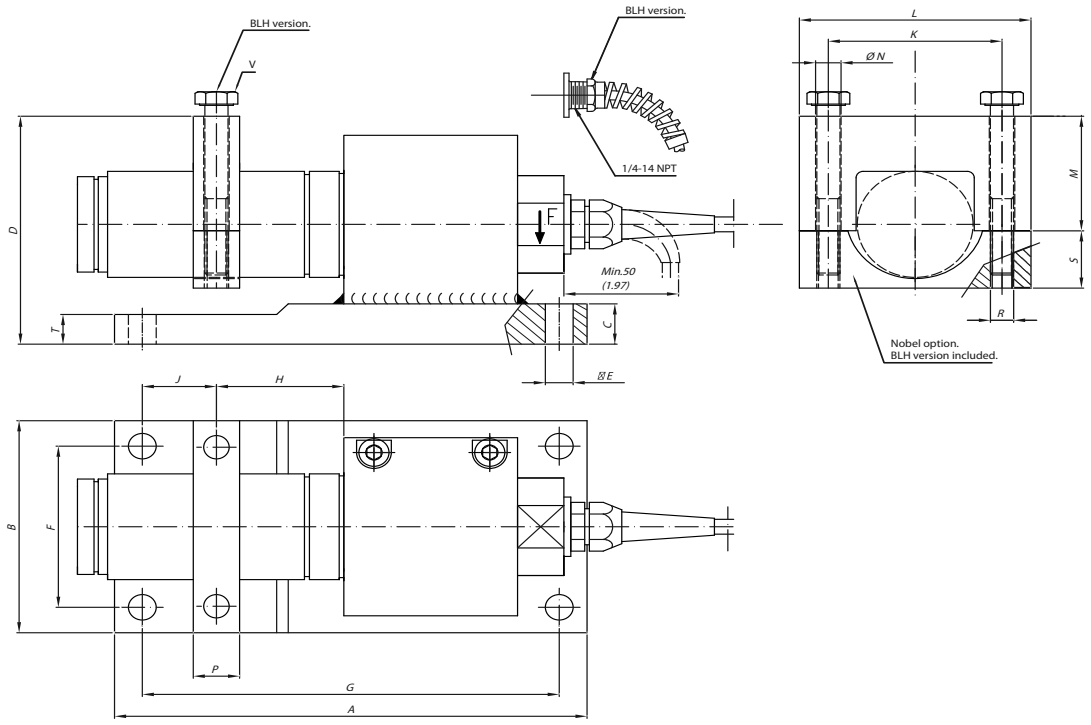
OUTLINE DIMENSIONS



RANGE kN	ØA	ØB	ØC	D	E	F	G	H	J	K	L	ØM	N	P	R	S	T
0.5-1-2-5	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 (2.75)	15 (.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 (.51)	4 (.16)	1.85 (.07)	2.15 (.08)	7.5 (.29)	12 (.47)	5 (.20)	75 (2.95)	20 (.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 (.47)	5 (.20)	2.65 (.10)	2.65 (.10)	9.1 (.36)	14 (.55)	7 (.28)	110 (4.33)	20 (.79)	60 (2.36)

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
0.5-1-2-5	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 (2.76)	41 (1.61)	8.5 (.33)	20 (.88)	14 (.55)	M8	19 (.75)
10-20-30	204 (8.03)	100 (3.93)	19 (.75)	107.5 (4.23)	12 (.47)	76 (2.99)	180 (7.08)	55 (2.16)	32 (1.26)	75 (2.95)	100 (3.93)	54 (2.12)	11 (.43)	20 (.79)	14 (.55)	M10	27 (1.06)
50	280 (11.02)	150 (5.90)	30 (1.18)	152 (5.98)	16 (.63)	115 (4.53)	245 (9.64)	65 (2.56)	45.5 (1.79)	115 (4.53)	150 (5.90)	72 (2.83)	18 (.71)	30 (1.18)	30 (1.18)	M16	43 (1.69)

RANGE kN	V
0.5-1-2-5	M8-1.25X70 (2.755) LG
10-20-50	M10-1.5X90 (3.543) LG
50	M16-2X120(4.724) LG

Dimension shown in MM (inch)

KIS-2 TECHNICAL DATA

Rated load (R.L.)		0.5[2], 1, 2, 5, 10, 20, 30, 50[2]	kN
Combined error (terminal)		± 0.05	% of R.O.
Repeatability		0.01	% of R.O.
Overload	**Safe**	200* , 150* for 30 kN and 50kN	% of R.L.
	Ultimate	300*, 200 for 30 kN and 50kN	% of R.L.
Uplift	**Safe**	100	% of R.L.
	Ultimate	120	% of R.L.
Sideload	**Safe**	100*, 50* for 30kN	% of R.L.
	Ultimate	200*, 100 for 30 kN	% 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 ±3	Ohm
Rated output (R.O.)		2.040	mV/V
Tolerance of R.O.		±0.25	% of R.O.
Zero balance		±5	% of R.O.
Tolerance of shunt calibration values		±0.25	% of value**
Creep at R.L. after 30 minutes		±0.03	% of R.L.
Temperature range		-40 to +100*** -40 to +212***	°C
Temperature effect (-10°C to +50°C)	**On output**	±0.0033 ±0.00018	% of output/°C
	On zero balance	±0.0014 ±0.0008	% of R.O./°C
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

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Vishay Precision Group”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify Vishay Precision Group’s terms and conditions of purchase, including but not limited to, the warranty expressed therein.

Vishay Precision Group makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, Vishay Precision Group disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on Vishay Precision Group’s knowledge of typical requirements that are often placed on Vishay Precision Group products. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of Vishay Precision Group.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay Precision Group products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay Precision Group for any damages arising or resulting from such use or sale. Please contact authorized Vishay Precision Group personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.