

## Weigh Module

### FEATURES

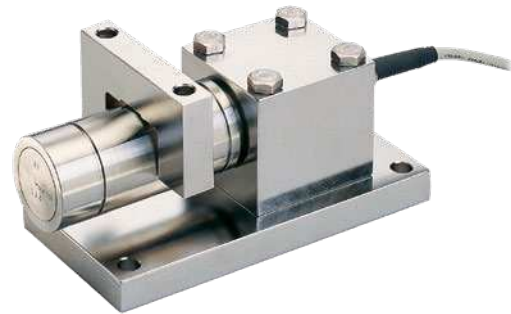
- Capacity range: 1, 2, 5, 10, 20, 30, 50, 100, and 200 kN (225, 450, 1.12K, 2.25K, 4.5K, 6.75K, 11.2K, 22.4K, and 44.9K lb)
- Easy installation
- Moveable load point
- Withstands very high lateral forces
- Extremely accurate and rugged
- FM, ATEX and IECEx certified for hazardous locations

### APPLICATIONS

- Silo/bin/hopper inventory weighing systems
- Mixing and blending tanks
- Force measurement systems
- Conveyors

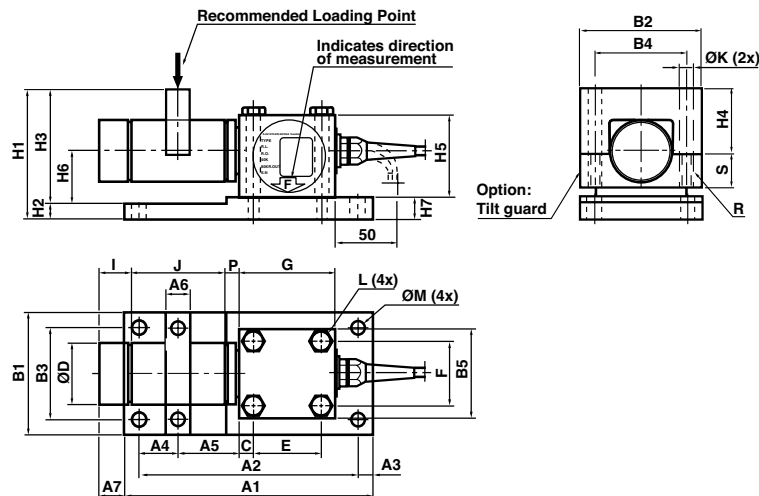
### DESCRIPTION

The KIS-8 load cell has several features that distinguish it from other load cells. It is easy to install and extremely accurate, even when subjected to disruptive industrial



forces and harsh environmental conditions. All KIS load cells can be FM, ATEX and IECEx certified for use in explosive atmospheres.

### OUTLINE DIMENSIONS



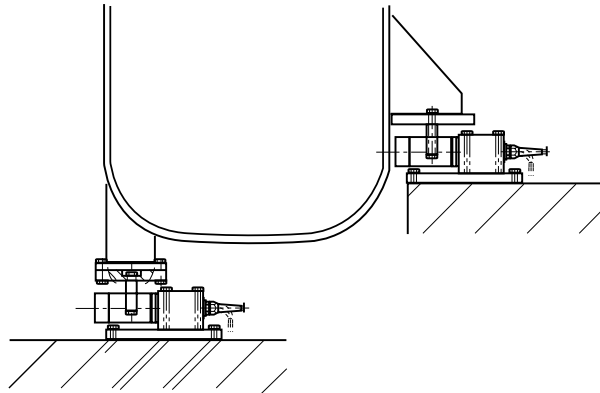
RANGE kN	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	C	ØD	E	F	G
1-2	175	151	12	31	31	19	-6	75	70	51	55	48	14	33	54	39	78
5-10-20-30	204	180	12	32	50	19	21	100	100	76	75	73	12	50	56	53	79
50	280	245	17.5	46.5	65	28	21	150	150	115	115	97	14	75	72	72	97
100	310	270	20	63	65	40	22	170	160	130	126	118	15	90	78	88	108
200	340	300	20	71	65	50	37	180	190	140	146	132	16	100	92	96	128

RANGE kN	H1	H2	H3	H4	H5	H6	H7	I	J	ØK	L	ØM	P	Circlip (2x)	R	S
1-2	81	14	67	41	48	27.5	14	22	30	8.5	M6 x 60	11	16	32 x 1.5	M8	19
5-10-20-30	107.5	18	89.5	54	68	38.5	18	26.5	77	11	M10 x 80	12	11.5	50 x 2	M10	27
50	152	28	124	72	94	54.5	28	36	98	18	M12 x 110	15	17	75 x 2.5	M16	43
100	173	28	145	85	108	65	38	57	96	22	M16 x 140	22	17	90 x 3	M20	50
200	199	36	163	95	118	72	48	80	96	25	M20 x 150	25	17	100 x 3	M24	57

## Weigh Module

## INSTALLATION EXAMPLES



## SPECIFICATIONS

PARAMETER	VALUE	PARAMETER	VALUE
Rated load (RL)	1, 2, 5, 10, 20, 30, 50, 100, 200 kN	Creep at RL after 30 minutes	±0.03% RL
Combined error (terminal)	±0.075% RO	Temperature range	−40 to +80°C (+100°C) <sup>(3)</sup>
Repeatability	0.02% RO	Temperature effect on output (−10°C to +50°C)	±0.003% of output/°C
Safe load	150% RL <sup>(1)</sup>	Temperature effect on zero balance (−10°C to +50°C)	±0.003% of RO/°C
Ultimate load	200% RL <sup>(1)</sup>	Insulation resistance at 200 VDC	>4 GΩ
Ultimate side load	100% RL <sup>(1)</sup>	Material	Stainless steel
Input voltage, recommended	10 VDC or VAC	Electrical connection	5 m shielded four conductor cable 1-20 kN
Input voltage, maximum	18 VDC or VAC		10 m shielded four conductor cable 50-200 kN
Input resistance	350 Ω ±5 Ω	Degree of protection	IP67
Output resistance	350 Ω ±0.5 Ω	<b>APPROVALS</b>	
Rated output (RO)	2.040 mV/V	FM, ATEX, IECEx certified versions are available upon request. For details contact blhnobel@vpgsensors.com.	
Tolerance of (RO)	±0.25% RO		
Zero balance	±2% RO		
Tolerance of shunt calibration values	±0.25% of value <sup>(2)</sup>		

(1) Referring to recommended loading point

(2) See calibration sheet of the load cell

(3) −40 to +100°C on demand

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

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