Weigh Module

FEATURES

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

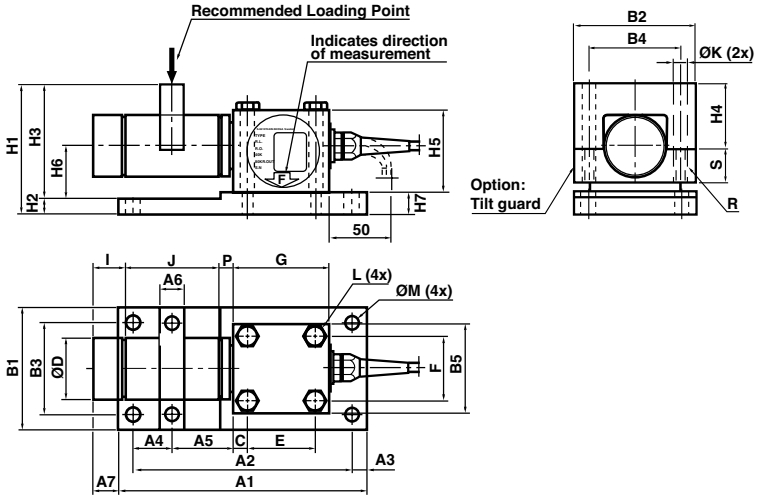
APPLICATIONS

- 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 an be ATEX and IECEx certified for use in explosive atmospheres.

OUTLINE DIMENSIONS



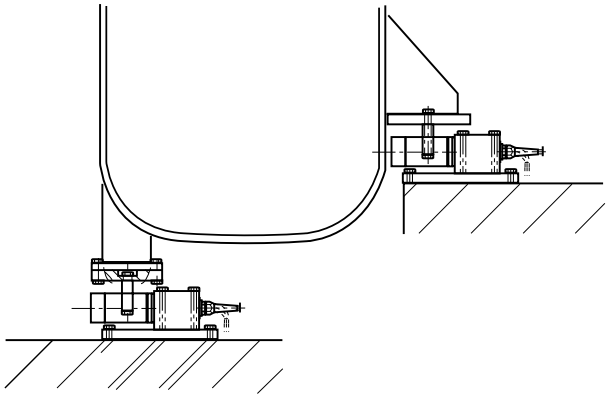
RANGE kN	A1	A2	A3	A4	A5	A6	A7	B1	B2	B3	B4	B5	C	ØD	E	F	G
1–2	175	151	12	31	31	20	-6	75	70	51	55	48	14	33	54	39	78
5–10–20	204	180	12	32	50	20	21	100	100	76	75	73	12	50	56	53	79
50	280	245	17.5	46.5	65	30	21	150	150	115	115	97	14	75	72	72	97
100	310	270	20	63	65	39	22	170	160	130	126	118	15	90	78	88	108
200	340	300	20	71	65	49	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	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

BLH NOBEL
A VPG Brand

Weigh Module

INSTALLATION EXAMPLES



SPECIFICATIONS

PARAMETER	VALUE
Rated load (RL)	1, 2, 5, 10, 20, 50, 100, 200 kN
Combined error (terminal)	±0.075% RO
Repeatability	0.02% RO
Overload, safe	50% RL (1)
Overload, ultimate	100% RL (1)
Sideload, ultimate	100% RL (1)
Input voltage, recommended	10 VDC or VAC
Input voltage, maximum	18 VDC or VAC
Input resistance	350 Ω ±5 Ω
Output resistance	350 Ω ±0.5 Ω
Rated output (RO)	2.040 mV/V
Tolerance of (RO)	±0.25% RO
Zero balance	±2% RO
Tolerance of shunt calibration values	±0.25% of value (2)

PARAMETER	VALUE
Creep at RL after 30 minutes	±0.03% RL
Temperature range	–40 to +80°C (+100°C) (3)
Temperature effect on output (–10°C to +50°C)	±0.003% of output/°C
Temperature effect on zero balance (–10°C to +50°C)	±0.003% of RO/°C
Insulation resistance at 200 VDC	>4 GΩ
Material	Stainless steel
Electrical connection	5 m shielded four conductor cable 1-20 kN
	10 m shielded four conductor cable 50-200 kN
Degree of protection	IP67
APPROVALS	
ATEX, IECEx certified versions are available upon request. For details contact blhnobel@vpgsensors.com.	

(1) Referring to recommended loading case
(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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