Weigh Module

FEATURES

- Capacity range: 50, 100, 200, 300, and 500kN (11.2K, 22.4K, 44.9K, 67.5K, and 112.4Klb)
- Simple installation
- Moveable load point
- Withstands very high lateral forces
- Extremely accurate and rugged
- ATEX certified for hazardous locations

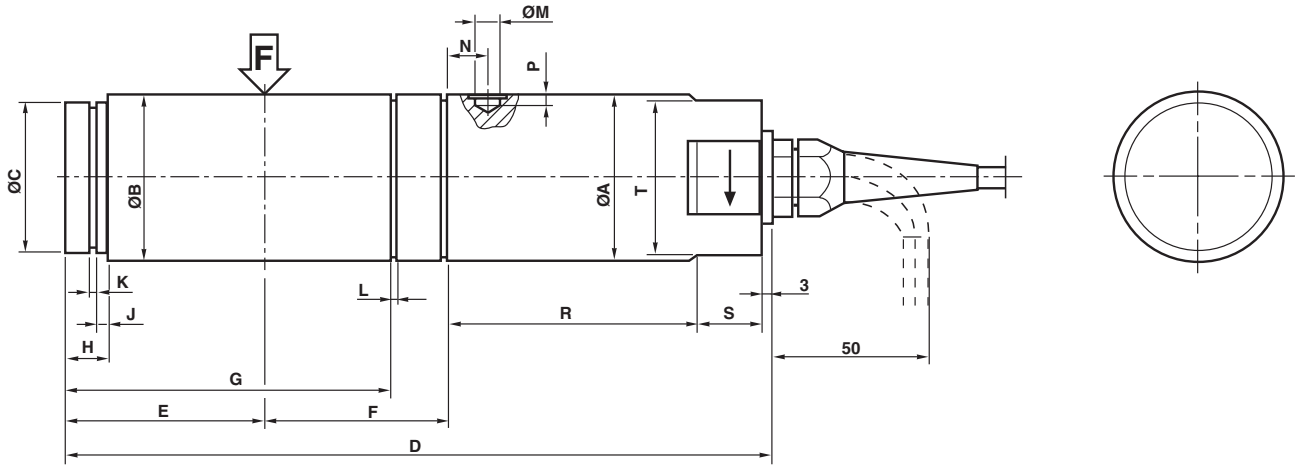
DESCRIPTION

The KIS-1 load cell has several features that clearly distinguish it from other load cells. It is easy to install and extremely accurate, even when subjected to dynamic process forces and severe environmental conditions. All KIS load cells can be ATEX certified for use in explosive atmospheres.

APPLICATIONS

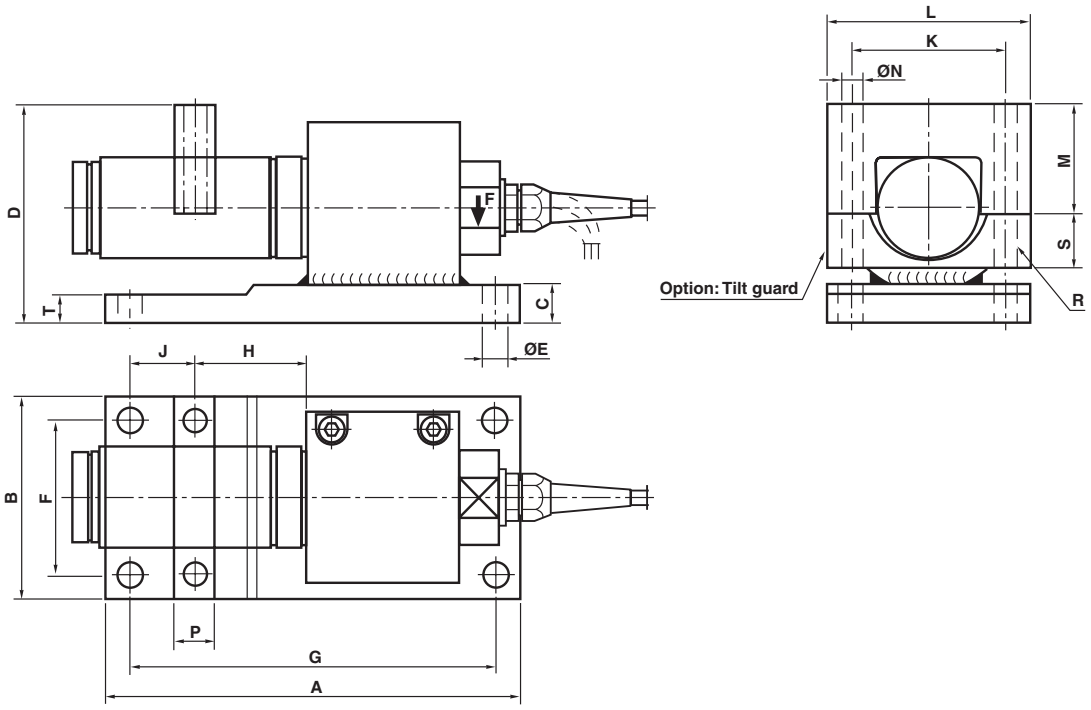
- Large silo and storage bins
- Reactor and mixing vessels
- Conveyor belts
- High-capacity force measurement systems

OUTLINE DIMENSIONS



RANGE kN	ØA	ØB	ØC	D	E	F	G	H	J	K	L	ØM	N	P	R	S	T
50	77	75	70	291	93	65	141.3	12	5	2.65	2.65	9.1	14	7	110	20	60
100	92	90	82	315	107	65	155.4	15	6	2.65	3.15	12.6	17	8	120	20	70
200	101	100	90	346	128	65	175.8	15	6	3.15	3.15	15.7	19	8.5	130	20	80
300	101	100	90	346	128	65	175.8	15	6	3.15	3.15	15.7	19	8.5	130	20	80
500	142	140	130	450	165	75	212.8	35	20	4.15	4.15	15.7	30	8.5	180	27	80

OUTLINE DIMENSIONS cont.



RANGE kN	A	B	C	D	ØE	F	G	H	J	K	L	M	ØN	P	T	R	S
50	280	150	30	152	16	115	245	65	45,5	115	150	72	18	30	30	M16	43
100	310	170	40	173	22	130	270	65	63	126	160	85	22	40	26	M20	50
200	340	180	50	199	25	140	300	65	71	146	190	95	25	50	32	M24	57
300*	340	180	50	199	25	140	300	65	71	175	220	105	26	53	32	M24	56
500*	480	280	60	315	33	220	420	75	108	240	300	150	26	70	60	M24	91

*is provided with loading ring

SPECIFICATIONS

Rated load (R.L.)		50, 100, 200, 300, 500	kN
Combined error (terminal)		±0.03	% of R.O.
Repeatability		0.01	% of R.O.
Overload	**safe**	100* 50* for 300kN	% of R.L.
	ultimate	200* 100* for 300kN	% of R.L.
Sideload	**safe**	100* 50* for 300kN	% of R.L.
	ultimate	200* 100* for 300kN	% 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		±0.04	% of R.L.
Temperature range		-40 to +80 (+100)***	°C
Temperature effect (-10°C to +50°C)	**on output**	±0.0015	% of output/°C
	on zero balance	±0.003	% of R.O./°C
Insulation resistance at 200V DC		>4	Gohm
Material: Load Cell		Stainless steel	50kN
		Yellow chromate steel	100 - 500kN
Material: Bracket and Yoke		Yellow chromate steel****	
Electrical connection		10m shielded four conductor cable	
Degree of protection		IP 67	
* Referring to recommended loading case			
** See calibration sheet of the load cell		ATEX certified versions for use in explosive atmospheres are available: II 1GD.	
*** -40 to +100°C on demand			
**** Stainless steel on demand			

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