

Load Cell

FEATURES

- Suitable for force measurement applications
- Easy installation
- The cylindrical shape makes it easy to replace an axis
- Resistant against harsh environment
- Could be adapted for other dimensions and capacities
- ATEX and IECEx approved for hazardous area

APPLICATIONS

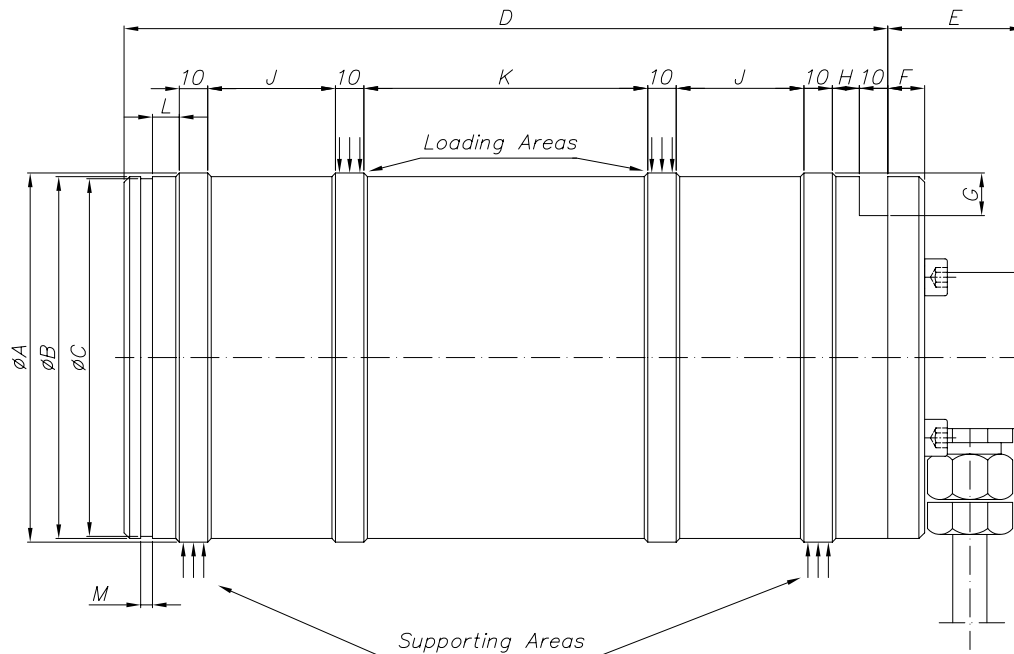
- Offshore
- Cranes
- Tension measurement
- Level monitoring

DESCRIPTION

Double-ended shear beam with circular cross section.



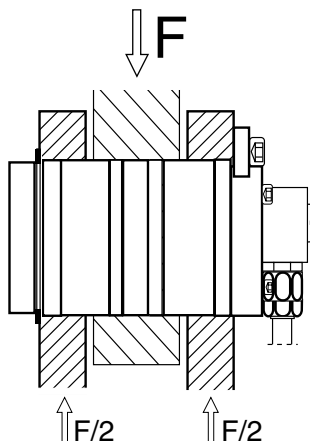
OUTLINE DIMENSIONS



LOAD CELL	RANGE kN	ØA	ØB	ØC	D	E	F	G	H	J	K	L	M
KOSD-101	1000	99	97	94.5	352	38	10	9.5	3	40	183	3	3.15
KOSD-107	1000	99	97	94.5	189	38	10	9.5	3	40	20	3	3.15
KOSD-115	2000	130	127.5	124	279	38	10	15	9.5	45	100	9.5	4.15

Load Cell

INSTALLATION EXAMPLE



SPECIFICATIONS

PARAMETER	VALUE	UNIT
Rated load (RL)	1000, 2000	kN
Combined error (best fit through zero)	±1	% of RO
Repeatability	0.5	% of RO
Overload,* safe	100	% of RL
Overload,* ultimate	200	% of RL
Sideload,* safe	100	% of RL
Sideload,* ultimate	200	% of RL
Input voltage, recommended	10	VDC or VAC
Input voltage, maximum	18	VDC or VAC
Input resistance	700 ±5	ohm
Output resistance	700 ±5	ohm
Rated output (RO)	≈2	mV/V
Zero balance	±5	% of RO
Tolerance of shunt calibration values	±1	% of value (actual output listed on unit calibration sheet)
Temperature range	-30 to +70	°C
Temperature effect on output	+0.04	% of output/ °C
Temperature effect on zero balance	±0.04	% of RO/ °C
Insulation resistance at 200 VDC	>4	Gohm
Material	Stainless steel	
Hardness	350 ±20	HB
Electrical connection	10 m shielded four conductor cable	
Degree of protection	IP 67	

APPROVALS

ATEX, IECEx certified versions are available upon request. For details contact blhnobel@vpgsensors.com.

* Referred to recommended loading case

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