

## 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
- Functional Safety TÜV certification

### APPLICATIONS

- Offshore
- Cranes
- Tension measurement
- Level monitoring



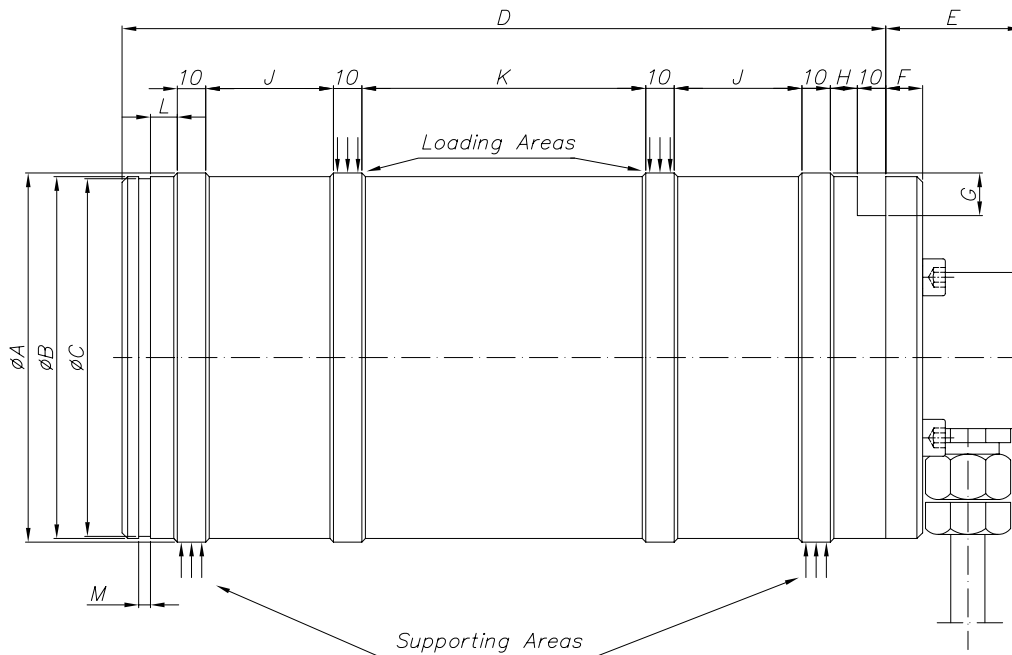
SIL/PL  
Capability

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ID 0600000000

### DESCRIPTION

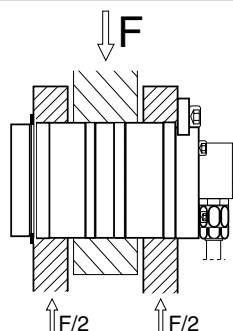
Double-ended shear beam with circular cross section.

### 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
Rated load (RL)	1000, 2000 kN
Combined error (best fit through zero)	±1% RO
Repeatability	0.5% RO
Safe load*	200% RL
Ultimate load*	300% RL
Safe sildeload*	100% RL
Ultimate sildeload*	200% RL
Input voltage, recommended	10 VDC or VAC
Input voltage, maximum	18 VDC or VAC
Input resistance	700 Ω ±5 Ω
Output resistance	700 Ω ±5 Ω
Rated output (RO)	≈2 mV/V
Zero balance	±5% 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 GΩ
Material	Stainless steel
Hardness	350 HB ±20 HB
Electrical connection	10 m shielded four conductor cable
Degree of protection	IP67
<b>APPROVALS</b>	
Certified for Functional Safety applications according to EN ISO 13849 (up to PLd) and EN 61508 (up to SIL2). ATEX, IECEx certified versions are available upon request. For details contact <a href="mailto:blhnobel@vpgsensors.com">blhnobel@vpgsensors.com</a> .	

\* Referring to recommended loading point

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



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