

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



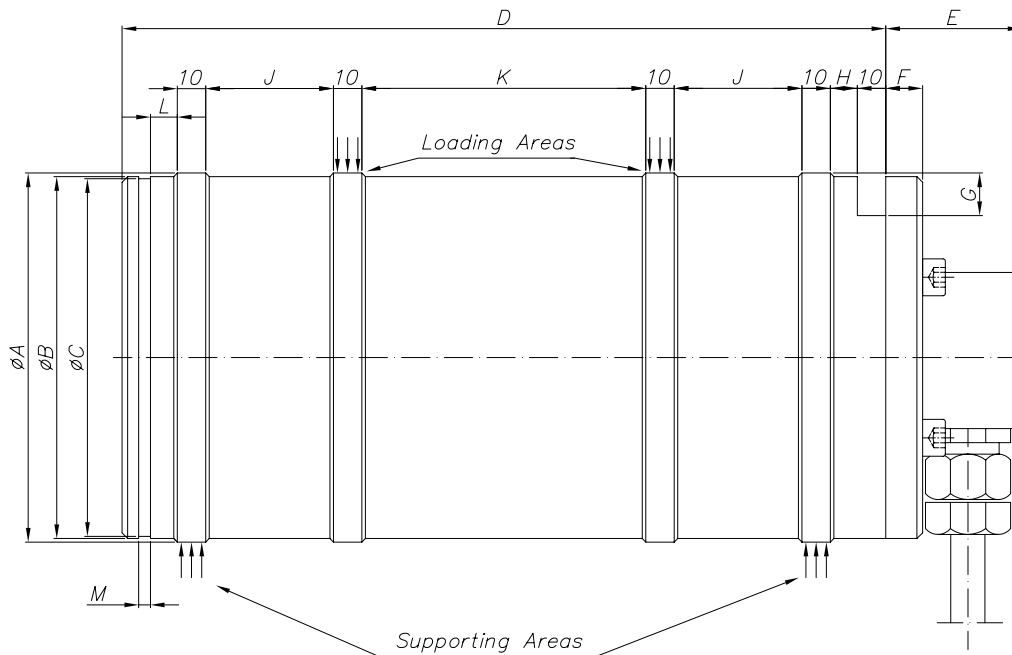
SIL/PL
Capability

www.tuv.com
ID 0600000000

DESCRIPTION

Double-ended shear beam with circular cross section.

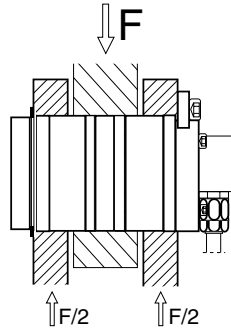
OUTLINE DIMENSIONS



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

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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 sideload*	100% RL
Ultimate sideload*	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
APPROVALS	
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 blhnobel@vpgsensors.com .	

* Referring to recommended loading point

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

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