Load Cell

FEATURES

- Suitable for force measurement applications
- Easy installation
- The cylindric 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

SIL/PL Capability
TÜVRheinland CERTIFIED
www.tuv.com ID 0600000000

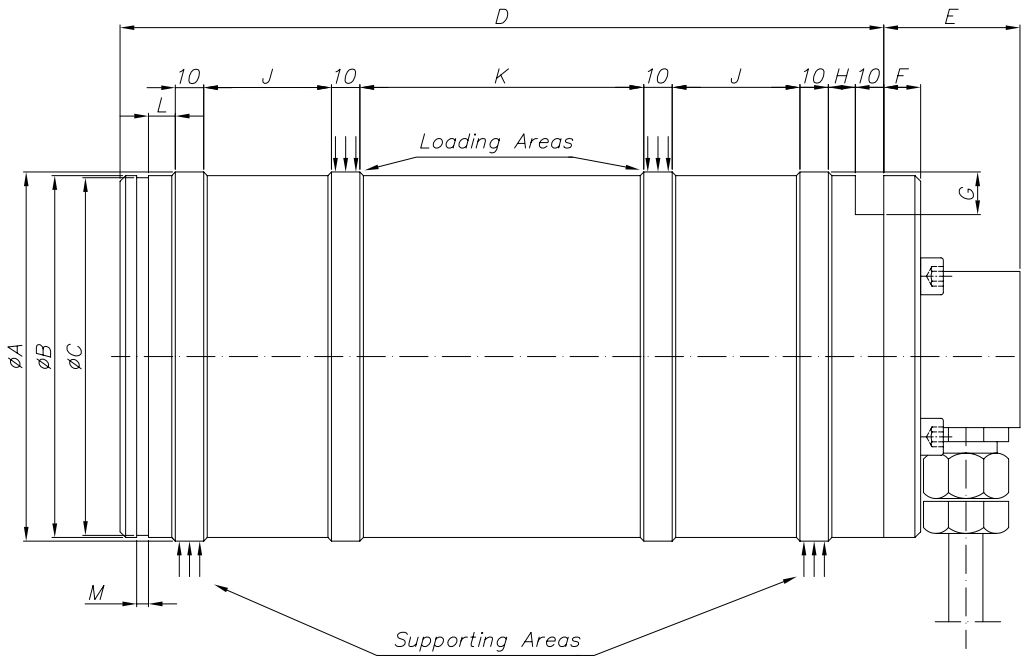
APPLICATIONS

- Offshore
- Cranes
- Tension measurement
- Level monitoring

DESCRIPTION

Double-ended shear beam with circular cross section.

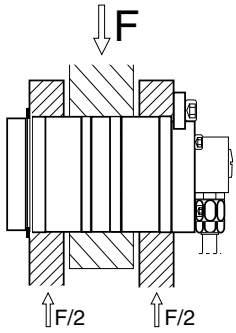
OUTLINE DIMENSIONS



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
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.

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “VPG”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG’s terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG’s knowledge of typical requirements that are often placed on VPG products. It is the customer’s responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.