

## Load Cell

### FEATURES

- Capacity range: 50, 100, 200, 400, and 1000 kN (11.2K, 22.5K, 45K, 90K, and 225K lb)
- Cylindrical shape for easy installation
- High accuracy
- ATEX and IECEx approved for hazardous areas
- Certified for Functional Safety applications
- High overload capacity
- Stainless steel construction

### APPLICATIONS

- Crane scales and overload monitoring
- Conveyors
- High capacity weighing (not storage bins)
- Offshore applications, cranes, winches and tension control


 SIL/PL  
 Capability

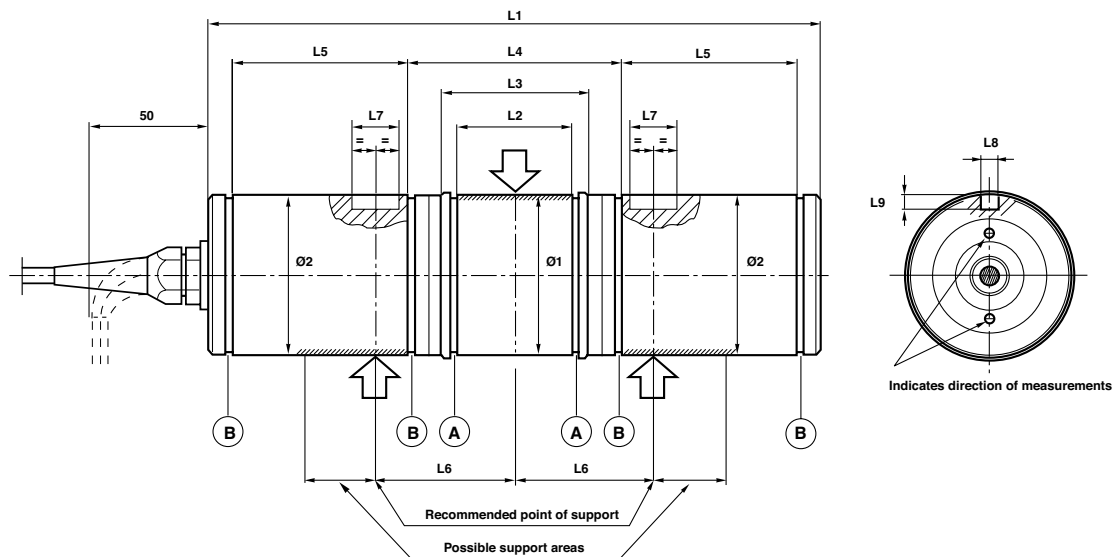
 www.tuv.com  
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### DESCRIPTION

The KISD-6 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 extreme pivotal forces and severe environmental conditions.

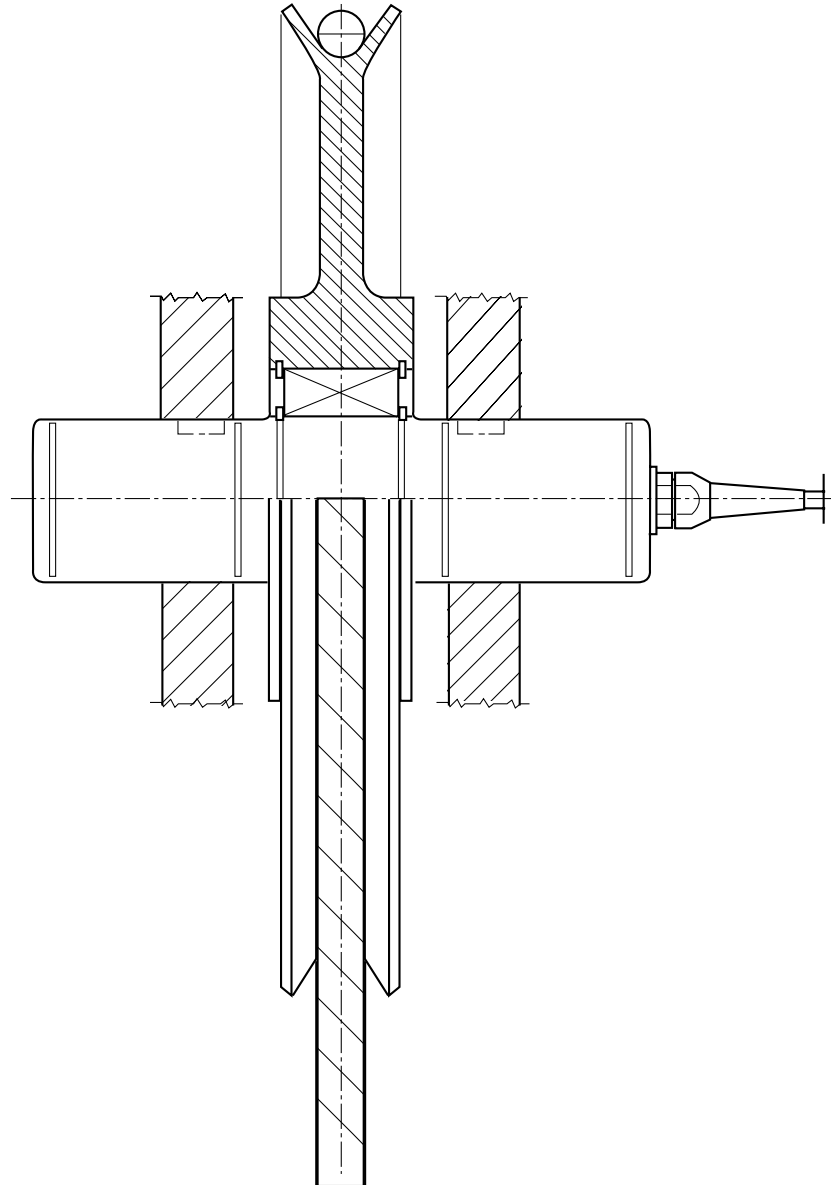
All KISD load cells can be ATEX and IECEx certified for use in explosive atmospheres

### OUTLINE DIMENSIONS



RANGE kN	L1	L2	L3	L4	L5	L6	L7	L8	L9	Ø1	Ø2	A Circlip	B Circlip
50, 100	260	49 +0.5 +0.2	62	90	75 +0.5 +0.2	59	20	7	6	70 -0.030 -0.076	68 0 -0.120	70 X 2.5	68 X 2.5
200	306	60 +0.5 +0.3	76	106	90 +0.5 +0.3	73	30	7	7.5	90 -0.036 -0.090	88 0 -0.140	90 X 3.0	88 X 3.0
400	360	70 +0.5 +0.3	86	116	112 +0.5 +0.3	83	35	8.5	8.5	100 -0.036 -0.090	99 0 -0.140	100 X 3.0	100 X 3.0
1000	500	150 +0.5 +0.3	180	222	124 +0.5 +0.3	145	35	15	10	140 -0.043 -0.106	139 0 -0.160	140 X 4.0	140 X 4.0

## Load Cell

**INSTALLATION EXAMPLE**

## Load Cell

SPECIFICATIONS	
PARAMETER	VALUE
Rated load (RL)	50, 100, 200, 400, 1000 kN
Combined error (terminal)	±0.1% RO
Repeatability	0.02% RO
Safe load	200% RL <sup>(1)</sup>
Ultimate load	300% RL <sup>(1)</sup>
Safe sideload	100% RL <sup>(1)</sup>
Ultimate sideload	200% RL <sup>(1)</sup>
Input voltage, recommended	10 VDC or VAC
Input voltage, maximum	18 VDC or VAC
Input resistance	382 Ω ±3 Ω
Output resistance	350 Ω ±3 Ω
Rated output (RO)	≈2 mV/V
Zero balance	±5% RO
Tolerance of shunt calibration values	±0.25% of value <sup>(2)</sup>
Temperature range	−40 to +80°C (+100°C) <sup>(3)</sup>
Temperature effect (−10°C to +50°C) on output	±0.005% of output/°C
Temperature effect (−10°C to +50°C) on zero balance	±0.005% of RO/°C
Insulation resistance at 200 VDC	>4 GΩ
Material	Stainless steel
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 <a href="mailto:blhnobel@vpgsensors.com">blhnobel@vpgsensors.com</a> .	

<sup>(1)</sup> Referring to recommended loading point

<sup>(2)</sup> See calibration sheet of the load cell

<sup>(3)</sup> −40 to +100°C on demand

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

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