## **Nobel Weighing Systems**



### **Load Cell**



#### **FEATURES**

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

#### **DESCRIPTION**

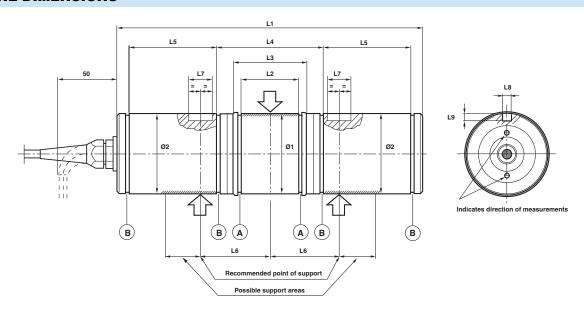
The KISD-6 load cell has several features that clearly distinguish it from other load cells. It is easy to install and extremely accurate, even when subjected to extreme pivotal forces and severe environmental conditions.

All KIS load cells can be ATEX certified for use in explosive atmospheres.

#### **APPLICATIONS**

- Crane scales
- Conveyors
- High-capacity storage bins

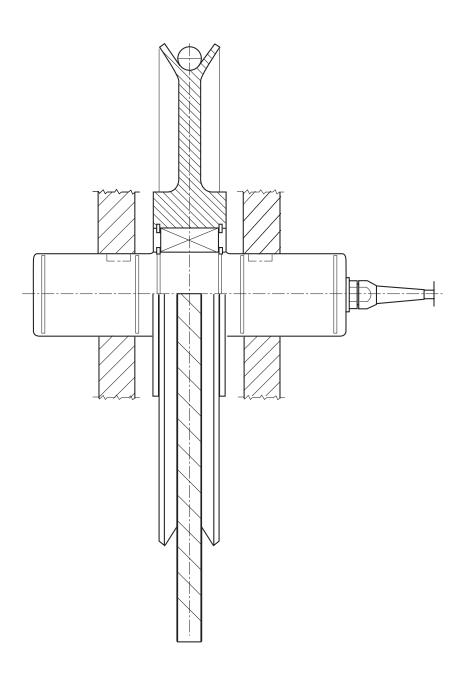
#### **OUTLINE DIMENSIONS**



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



# INSTALLATION EXAMPLE





### **SPECIFICATIONS**

| Rated load (R.L.)                        |                 | 50, 100, 200, 400, 1000  | kN              |  |
|--|-----------------|--|-----------------|--|
| ` '                                      |                 | · · · · · · ·  | 1               |  |
| Combined error (terminal)                |                 | ± 0.1  | % of R.O.       |  |
| Repeatability                            |                 | 0.02   | % of R.O.       |  |
| Overload                                 | safe            | 100*   | % of R.L.       |  |
|  | ultimate        | 200*   | % of R.L.       |  |
| Sideload                                 | safe            | 100*   | % of R.L.       |  |
|  | ultimate        | 200*   | % of R.L.       |  |
| Input voltage                            | recommended     | 10   | V DC or AC      |  |
|  | maximum         | 18   | V DC or AC      |  |
| Input resistance                         |                 | 382 ± 3  | ohm             |  |
| Output resistance                        |                 | $350 \pm 3$  | ohm             |  |
| Rated output (R.O.)                      |                 | ≈ 2  | mV/V            |  |
| Zero balance                             |                 | ± 5  | % of R.O.       |  |
| Tolerance of shunt calibration values    |                 | ± 0.25   | % of value**    |  |
| Temperature range                        |                 | - 40 to + 80 (+ 100)***  | °C              |  |
| Temperature effect (- 10°C to + 50°C)    | on output       | ± 0.005  | % of output/ °C |  |
|  | on zero balance | ± 0.005  | % of R.O./ °C   |  |
| Insulation resistance at 200 V DC        |                 | > 4  | Gohm            |  |
| Material                                 |                 | Stainless steel  |                 |  |
| Electrical connection                    |                 | 10 m shielded four conductor cable                                     |                 |  |
| Degree of protection                     |                 | IP 67  |                 |  |
| *Referring to recommended loading case   |                 | ATEX certified versions for use in explosive atmospheres are available |                 |  |
| **See calibration sheet of the load cell |                 | II 1GD   |                 |  |
| ***- 40 to + 100°C on demand             |                 |  |                 |  |



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