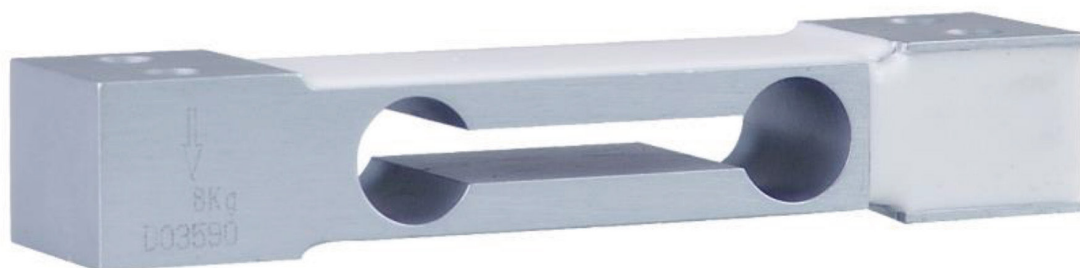


## Type L6D Load Cell



### Short Description

- Aluminium-alloy IP65 single point load cell
- Colorless anodized
- Suitable for pricing scales, bench scales, etc.
- Recommended maximum platform size: 250 x 350 mm



Test certificate no. TC7868 Revision 1  
C of C no R60/2000-NL1-12.52



Certificate no. 11-012

### Available Models

| Capacity | Accuracy | Full Article Description |
|----------|----------|--------------------------|
| 3kg      | C3/C4/C5 | L6D-C3/C4/C5-3kg-0.40B   |
| 5kg      | C3/C4/C5 | L6D-C3/C4/C5-5kg-0.40B   |
| 6kg      | C3/C4/C5 | L6D-C3/C4/C5-6kg-0.40B   |
| 8kg      | C3/C4/C5 | L6D-C3/C4/C5-8kg-0.40B   |
| 10kg     | C3/C4/C5 | L6D-C3/C4/C5-10kg-0.40B  |
| 15kg     | C3/C4/C5 | L6D-C3/C4/C5-15kg-0.40B  |
| 20kg     | C3/C4/C5 | L6D-C3/C4/C5-20kg-0.40B  |
| 30kg     | C3/C4/C5 | L6D-C3/C4/C5-30kg-0.40B  |
| 35kg     | C3/C4/C5 | L6D-C3/C4/C5-35kg-0.40B  |
| 40kg     | C3/C4/C5 | L6D-C3/C4/C5-40kg-0.40B  |
| 50kg     | C3/C4/C5 | L6D-C3/C4/C5-50kg-0.40B  |

## Type L6D Load Cell

### Technical Specifications L6D

| Accuracy Class                             |                                         | OIML R60 C3                              | OIML R60 C4       | OIML R60 C5        |
|--------------------------------------------|-----------------------------------------|------------------------------------------|-------------------|--------------------|
| Output Sensitivity ( = FS )                | mV/V                                    | 2.0 ± 0.2                                |                   |                    |
| Maximum Capacity ( E <sub>max</sub> )      | kg                                      | 3, 5, 6, 8, 10, 15, 20, 30, 35, 40, 50   |                   |                    |
| Max. Number of Load Cell Intervals         | n <sub>LC</sub>                         | 3000                                     | 4000              | 5000               |
| Ratio of min. LC Verification Interval     | Y = E <sub>max</sub> / v <sub>min</sub> | 10000                                    | 15000             | 20000              |
| Combined Error                             | %FS                                     | ≤± 0.020                                 | ≤± 0.015          | ≤± 0.010           |
| Creep Error (30 minutes)                   | %FS                                     | ≤± 0.0245                                | ≤± 0.0184         | ≤± 0.0147          |
| Temperature Effect on Zero (ZTC)           | %FS/10°C                                | ≤± 0.014                                 | ≤± 0.012          | ≤± 0.009           |
| Temperature Effect on Sensitivity (STC)    | %FS/10°C                                | ≤± 0.0175                                | ≤± 0.0131         | ≤± 0.0105          |
| Zero Balance                               | %FS                                     | ≤± 2.0                                   |                   |                    |
| Safe Overload                              | %FS                                     | 120                                      |                   |                    |
| Ultimate Overload                          | %FS                                     | 150                                      |                   |                    |
| Maximum Deflection                         | mm                                      | 3kg: 0.5~0.6                             | 5 – 15kg: 0.6~0.7 | 20 – 50kg: 0.6~0.8 |
| Eccentric Loading Error                    | %Ld/cm                                  | ± 0.002                                  |                   |                    |
| Excitation, Recommended Voltage            | V                                       | 5 ~ 12                                   |                   |                    |
| Excitation, Maximum Voltage                | V                                       | 18                                       |                   |                    |
| Input Resistance                           | Ω                                       | 406 ± 6                                  |                   |                    |
| Output Resistance                          | Ω                                       | 350 ± 3                                  |                   |                    |
| Insulation Resistance (50V <sub>DC</sub> ) | MΩ                                      | ≥5000                                    |                   |                    |
| Compensated Temperature                    | °C                                      | -10 ~ + 40                               |                   |                    |
| Operating Temperature                      | °C                                      | -35 ~ + 65                               |                   |                    |
| Storage Temperature                        | °C                                      | -40 ~ + 70                               |                   |                    |
| Load Cell Weight                           | kg                                      | ~0.25                                    |                   |                    |
| Element Material                           |                                         | Aluminium                                |                   |                    |
| Ingress Protection (acc. to EN 60529)      |                                         | IP65                                     |                   |                    |
| Recommended Torque on Fixation Bolts       | Nm                                      | < 30kg: 6                      >30kg: 10 |                   |                    |

### Wiring

#### Features:

Cable type: Shielded, 4 conductor cable , conductor AWG 26  
Cable diameter: Ø 3.8mm  
Cable length: L = 0.40m ± 0.035m, L1 =0.05 ± 0.005m  
Cable jacket: PVC  
Shield not connected to element

#### 4-Wire Connection Diagram

