



## Short description



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



test certificate no. TC7868 Revision 1  
C of C no R60/2000-NL1-10.35



Certificate no. 11-012

## Available models

| Capacity | Accuracy              | Full article description |
|----------|-----------------------|--------------------------|
| 2.5kg    | C3 Excluded from OIML | L6D-C3-2.5kg-0.40B       |
| 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  |

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

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# Type L6D Load Cell

## Detailed specifications L6D

|  |   |                    |  |             |             |
|--|---|--------------------|--|-------------|-------------|
| Accuracy class                         |   | C3                 | OIML R60 C3                            | OIML R60 C4 | OIML R60 C5 |
| Output sensitivity ( = FS )            | mV/V                                    | 1.8 ± 0.2          | 2.0 ± 0.2                              |             |             |
| Maximum capacity ( E <sub>max</sub> )  | kg                                      | 2.5                | 3, 5, 6, 8, 10, 15, 20, 30, 35, 40, 50 |             |             |
| Max.number of load cell intervals      | n <sub>LC</sub>                         | 3000               | 3000                                   | 4000        | 5000        |
| Ratio of min. LC verification interval | Y = E <sub>max</sub> / v <sub>min</sub> | 7000               | 10000                                  | 15000       | 20000       |
| Combined Error                         | %FS                                     | ≤± 0.0230          |  | ≤± 0.0175   | ≤± 0.0140   |
| Minimum dead load                      | Of E <sub>max</sub>                     | 0%                 |  |             |             |
| Safe overload                          | of E <sub>max</sub>                     | 150 %              |  |             |             |
| Ultimate overload                      | of E <sub>max</sub>                     | 300 %              |  |             |             |
| Zero balance                           | of FS                                   | < ± 2.0 %          |  |             |             |
| Excitation, recommended voltage        | V                                       | 5 ~ 12             |  |             |             |
| Excitation maximum                     | V                                       | 18                 |  |             |             |
| Input resistance                       | Ω                                       | 409 ± 6            |  |             |             |
| Output resistance                      | Ω                                       | 350 ± 3            |  |             |             |
| Insulation resistance                  | MΩ                                      | ≥5000 ( at 50VDC ) |  |             |             |
| Compensated temperature                | °C                                      | -10...+40          |  |             |             |
| Operating temperature                  | °C                                      | -35...+65          |  |             |             |
| Storage temperature                    | °C                                      | -40...+70          |  |             |             |
| Element material                       |   | Aluminium          |  |             |             |
| Ingress Protection (acc. to EN 60529)  |   | IP65               |  |             |             |
| Recommended torque on fixation         | Nm                                      | < 30kg: 6          |  | >30kg: 10   |             |

## Wiring

### Wiring:

Shielded, 4 conductor cable.

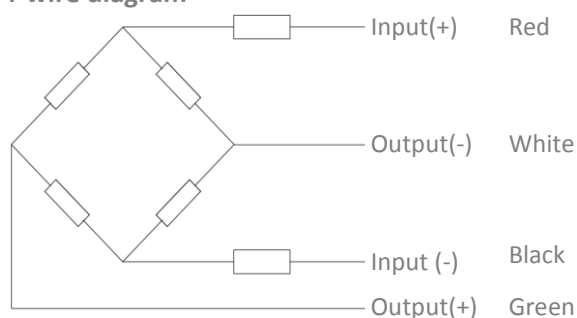
Cable diameter: Ø3.8mm.

Standard cable length: 0.40m

Shield not connected to element.

Cable jacket in PVC.

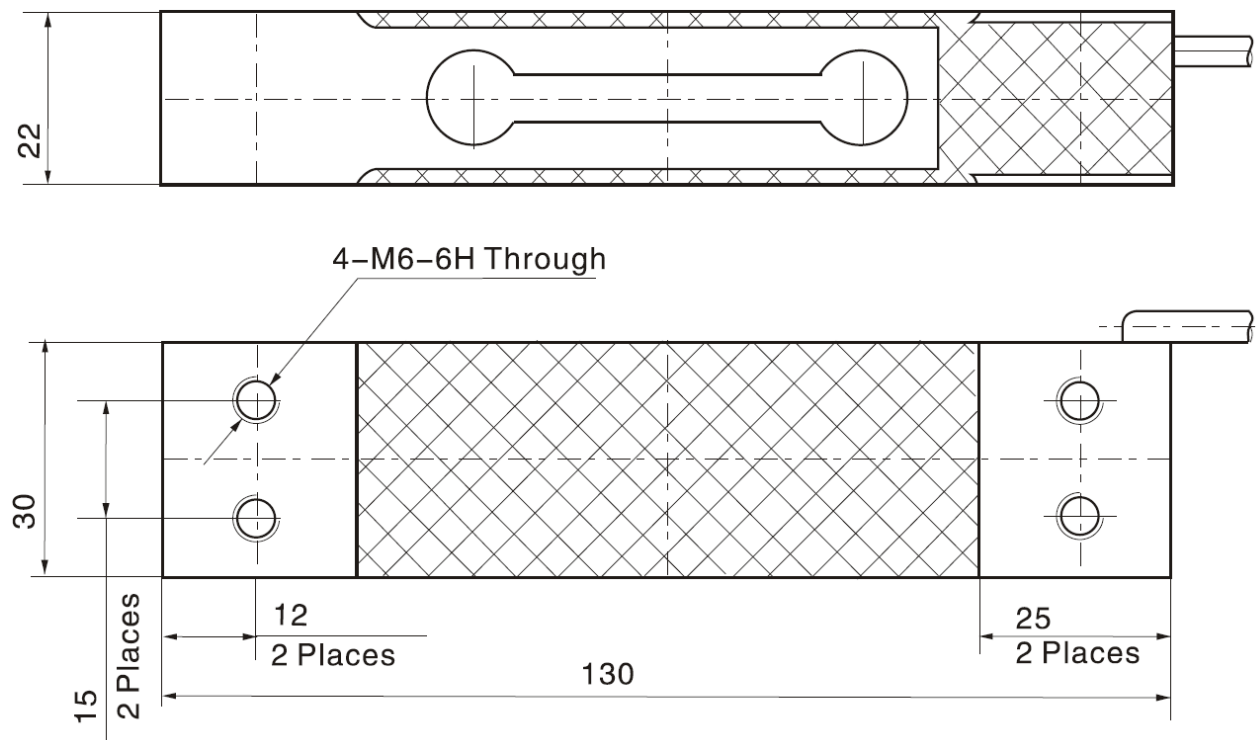
### 4-wire diagram



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# Type L6D Load Cell

Dimensions in mm



Note: Screws M6 class 8.8, screw rinsed with oil. Torque as in specifications table

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