

# H9D

- Nickel plated alloy steel IP67 dual shear beam load cell
- High accuracy
- Suitable for truck and track scales and other heavy weighing devices
- Sealed construction

## Available models

| Capacity | Accuracy | Full article description |
|----------|----------|--------------------------|
| 1 Klb    | N3       | H9D-N3-1K-6B             |
| 1.5 Klb  | N3       | H9D-N3-1.5K-6B           |
| 2 Klb    | N3       | H9D-N3-2K-6B             |
| 2.5 Klb  | N3       | H9D-N3-2.5K-6B           |
| 4 Klb    | N3       | H9D-N3-4K-6B             |
| 5 Klb    | N3       | H9D-N3-5K-6B             |
| 10 Klb   | N3       | H9D-N3-10K-6B            |
| 15 Klb   | N3       | H9D-N3-15K-6B            |
| 20 Klb   | C3/C4/C5 | H9D-C3/C4/C5-20K-6B      |
| 25 Klb   | C3/C4/C5 | H9D-C3/C4/C5-25K-6B      |
| 35 Klb   | C3/C4/C5 | H9D-C3/C4/C5-35K-6B      |
| 50 Klb   | C3/C4/C5 | H9D-C3/C4/C5-50K-6B      |
| 75 Klb   | C3/C4/C5 | H9D-C3/C4/C5-75K-6B      |

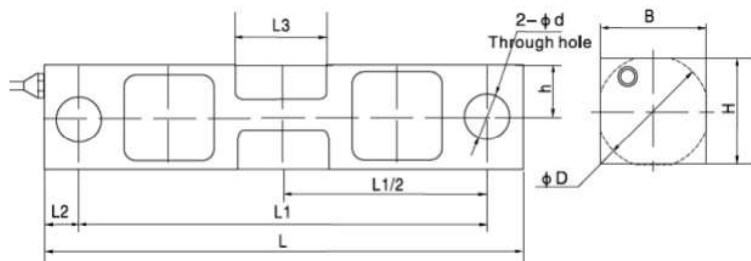

 test certificate no. TC8013 Revision 0 C  
 of C no R60/2000-NL1-11.31


Certificate no. 12-015

## Specification

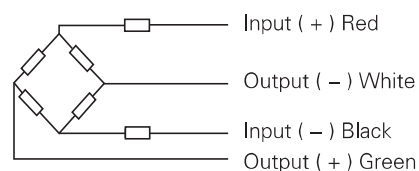
| Accuracy class                                            |         | N3                           | OIML R60 C3            | OIML R60 C4       | OIML R60 C5 |
|-----------------------------------------------------------|---------|------------------------------|------------------------|-------------------|-------------|
| Output sensitivity ( = FS )                               | mV/V    | 3.0 ± 0.008                  |                        |                   |             |
| Maximum capacity ( Emax )                                 | klb     | 1, 1.5, 2, 2.5, 4, 5, 10, 15 | 20, 25, 35, 50, 75     |                   |             |
| Maximum number of load cell intervals ( nLC )             |         | 3000                         | 4000                   | 5000              |             |
| Ratio of minimum LC verification interval Y = Emax / vmin |         | 10000                        | 15000                  | 20000             |             |
| Combined error                                            | %FS     | ± 0.023                      | ± 0.0175               | ± 0.0140          |             |
| Minimum dead load                                         | of Emax | 0 %                          |                        |                   |             |
| Safe overload                                             | of Emax | 150 %                        |                        |                   |             |
| Ultimate overload                                         | of Emax | 300 %                        |                        |                   |             |
| Zero balance                                              | %FS     | ± 1.0                        |                        |                   |             |
| Excitation, recommended voltage                           | V       | 5 ~ 12( DC )                 |                        |                   |             |
| Excitation maximum                                        | V       | 18( DC )                     |                        |                   |             |
| Terminal resistance, input                                | Ω       | 700 ± 7                      |                        |                   |             |
| Terminal resistance, output                               | Ω       | 703 ± 4                      |                        |                   |             |
| Insulation impedance                                      | MΩ      | ≥ 5000 ( at 50VDC )          |                        |                   |             |
| Temperature range, compensated                            | °C      | -10 ~ +40                    |                        |                   |             |
| Temperature range, operating                              | °C      | -35 ~ +65                    |                        |                   |             |
| Storage temperature                                       | °C      | -40 ~ +80                    |                        |                   |             |
| Element material                                          |         | Nickel plated alloy steel    |                        |                   |             |
| Ingress Protection (according to EN 60529)                |         | IP67                         |                        |                   |             |
| ATEX classification (optional)                            |         | II1G Ex ia IIC T4            | II1D Ex iaD 20 T73°C C | II3G Ex nL IIC T4 |             |

## Dimensions in mm



| Dimension Capacity | L                | L1               | L2             | H               | h               | B               | ΦD              | Φd              |
|--------------------|------------------|------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1Klb-5Klb          | 190.5<br>(7.5)   | 158.75<br>(6.25) | 15.9<br>(0.63) | 30.99<br>(1.22) | 16.76<br>(0.66) | 30.99<br>(1.22) | 31.5<br>(1.24)  | 12.7<br>(0.5)   |
| 10Klb-35Klb        | 222.25<br>(8.75) | 190.5<br>(7.5)   | 15.9<br>(0.63) | 49.15<br>(1.94) | 24.58<br>(1.26) | 36.45<br>(1.44) | 50.8<br>(2.0)   | 20.57<br>(0.81) |
| 50Klb-75Klb        | 342.9<br>(13.5)  | 292.1<br>(11.5)  | 25.4<br>(1.0)  | 74.68<br>(2.94) | 37.37<br>(1.47) | 61.98<br>(2.44) | 75.95<br>(2.99) | 33.32<br>(1.31) |

## Wiring



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 6m.
- Shield not connected to element.