



## Short Description



- 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



Test certificate no. D09-07.07



Certificate no. 07-018A1

## Available Models

| Capacity | Accuracy | Full Article Description |
|----------|----------|--------------------------|
| 5Klb     | C3/C4    | H9C-C3/C4-5K-9B          |
| 10Klb    | C3/C4    | H9C-C3/C4-10K-9B         |
| 20Klb    | C3/C4    | H9C-C3/C4-20K-9B         |
| 30Klb    | C3       | H9C-C3-30K-9B            |
| 40Klb    | C3       | H9C-C3-40K-9B            |
| 50Klb    | C3       | H9C-C3-50K-9B            |
| 60Klb    | C3       | H9C-C3-60K-9B            |
| 75Klb    | C3       | H9C-C3-75K-9B            |
| 100Klb   | C3       | H9C-C3-100K-9B           |
| 150Klb   | C3       | H9C-C3-150K-9B           |
| 200Klb   | C3       | H9C-C3-200K-9B           |
| 250Klb   | C3       | H9C-C3-250K-9B           |

## Technical Specifications H9C

| Accuracy Class                          |                                         | OIML R60 C3                                       |                   |                                            | OIML R60 C4     |                       |
|-----------------------------------------|-----------------------------------------|---------------------------------------------------|-------------------|--------------------------------------------|-----------------|-----------------------|
| Output Sensitivity ( = FS )             | mV/V                                    | 3.0 ± 0.008                                       |                   |                                            |                 |                       |
| Maximum Capacity ( E <sub>max</sub> )   | Klb                                     | 5, 10, 20, 30, 40, 50, 60, 75, 100, 150, 200, 250 |                   |                                            | 5, 10, 20       |                       |
| Max. Number of Load Cell Intervals      | n <sub>LC</sub>                         | 3000                                              |                   |                                            | 4000            |                       |
| Ratio of min. LC Verification Interval  | Y = E <sub>max</sub> / v <sub>min</sub> | 10000                                             |                   |                                            | 14000           |                       |
| Combined Error                          | %FS                                     | ≤± 0.020                                          |                   |                                            | ≤± 0.0175       |                       |
| Creep Error (30 minutes)                | %FS                                     | ≤± 0.016                                          |                   |                                            | ≤± 0.012        |                       |
| Temperature Effect on Zero (ZTC)        | %FS/10°C                                | ≤± 0.015                                          |                   |                                            | ≤± 0.010        |                       |
| Temperature Effect on Sensitivity (STC) | %FS/10°C                                | ≤± 0.011                                          |                   |                                            | ≤± 0.009        |                       |
| Zero Balance                            | %FS                                     | ≤± 1.0                                            |                   |                                            |                 |                       |
| Safe Overload                           | %FS                                     | 150                                               |                   |                                            |                 |                       |
| Ultimate Overload                       | %FS                                     | 300                                               |                   |                                            |                 |                       |
| Excitation, Recommended Voltage         | V                                       | 5 ~ 12                                            |                   |                                            |                 |                       |
| Excitation, Maximum Voltage             | V                                       | 18                                                |                   |                                            |                 |                       |
| Input Resistance                        | Ω                                       | 700 ± 7                                           |                   |                                            |                 |                       |
| Output Resistance                       | Ω                                       | 703 ± 4                                           |                   |                                            |                 |                       |
| Insulation Resistance (50V)             | MΩ                                      | ≥5000                                             |                   |                                            |                 |                       |
| Compensated Temperature                 | °C                                      | -10 ~ + 40                                        |                   |                                            |                 |                       |
| Operating Temperature                   | °C                                      | -35 ~ + 65                                        |                   |                                            |                 |                       |
| Storage Temperature                     | °C                                      | -40 ~ + 70                                        |                   |                                            |                 |                       |
| Load Cell Weight                        | kg                                      | 5-20Klb:<br>~2.2                                  | 30-70Klb:<br>~8.4 | 100Klb:<br>12.2                            | 150Klb:<br>15.1 | 200-250Klb:<br>44.6   |
| Element Material                        |                                         | Nickel plated alloy steel                         |                   |                                            |                 |                       |
| Ingress Protection (acc. to EN 60529)   |                                         | IP67                                              |                   |                                            |                 |                       |
| Recommended Torque on Fixation Bolts    | Nm                                      | M16: 240                                          |                   | M24: 820                                   | M36: 2850*      |                       |
| ATEX Classification (optional)          |                                         | II 1G Ex ia IIC T4 Ga                             |                   | II 1D Ex ia IIIC T <sub>200</sub> 135°C Da |                 | II 3G Ex ic IIC T4 Gc |

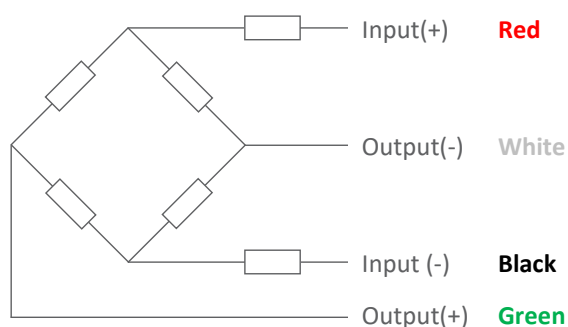
\* = Recommended bolt strength: Grade 10.9

## Wiring

### Features:

Cable type: Shielded, 4 conductor cable , conductor AWG 21  
 Cable diameter: Ø 5mm for 5Klb – 20Klb, Ø 8mm for 30Klb – 250Klb  
 Cable length: 9m  
 Cable jacket: Polyurethane  
 Shield not connected to element

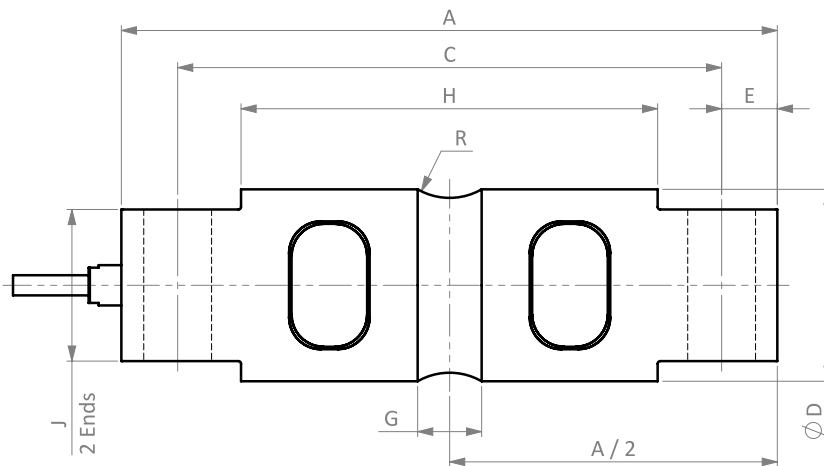
### 4-Wire Connection Diagram



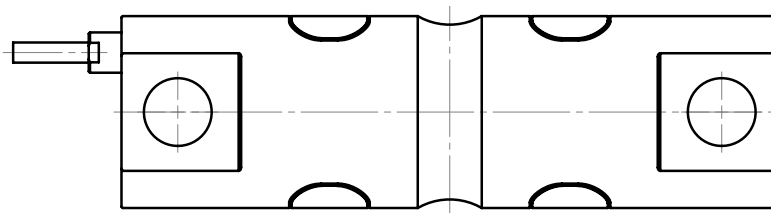
Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

## Dimensions in mm

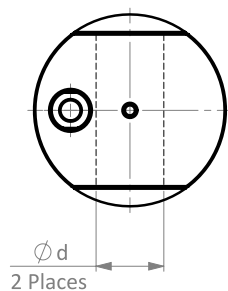
### Front View



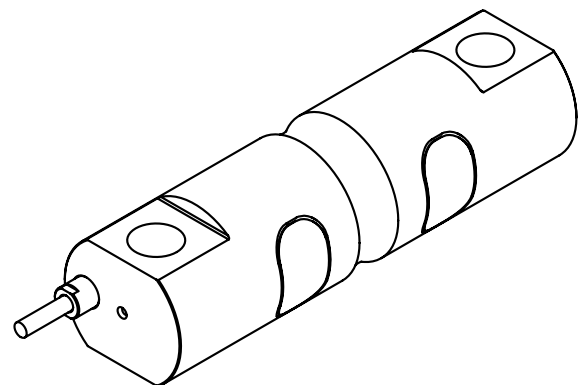
### Top View



### Side View

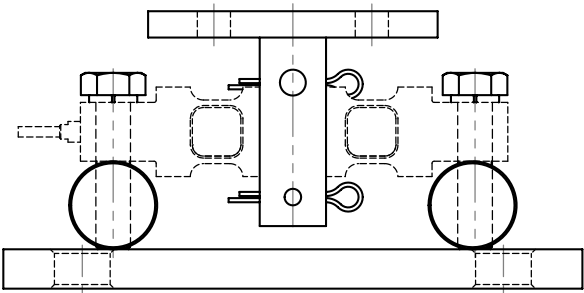
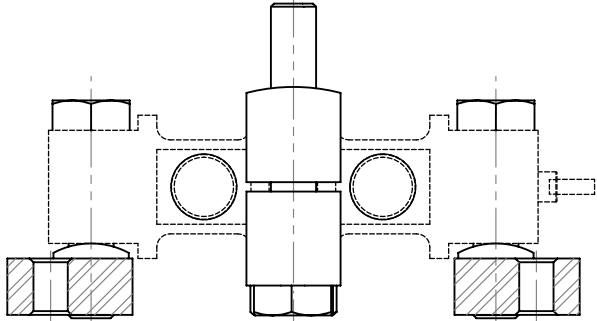
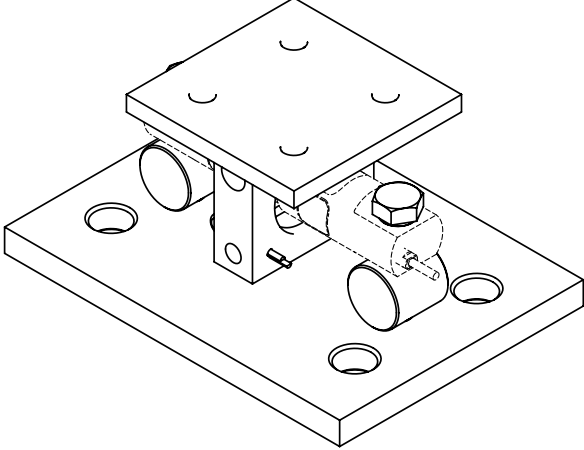


### Isometric View



| Dimension<br>Capacity | A     | C     | H     | G    | ØD    | J     | Ød   | R    | E    |
|-----------------------|-------|-------|-------|------|-------|-------|------|------|------|
| 5Klb, 10Klb           | 206.2 | 174.6 | 133.1 | 15.7 | 43.2  | 28.4  | 16.7 | 12.7 | 15.7 |
| 15Klb, 20Klb          | 206.2 | 174.6 | 133.1 | 21.3 | 49.5  | 28.4  | 16.7 | 12.7 | 15.7 |
| 30Klb-75Klb           | 260.4 | 215.9 | 165.1 | 25.4 | 76.2  | 60.2  | 26.9 | 25.4 | 22.4 |
| 90Klb, 100Klb         | 285.8 | 241.3 | 190.2 | 31.0 | 88.9  | 63.5  | 26.9 | 38.1 | 22.4 |
| 150Klb                | 285.8 | 241.3 | 190.2 | 31.0 | 99.1  | 71.1  | 26.9 | 38.1 | 22.4 |
| 200Klb, 250Klb        | 408.9 | 330.3 | 254   | 31.7 | 136.6 | 116.8 | 39.6 | 50.8 | 39.4 |

## Available Accessories

|                                                                                                                                                                                                                                                                                                                        |                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p><b>HM-9-401-5-250Klb Mount</b></p> <ul style="list-style-type: none"> <li>• Easy installation</li> <li>• Compact construction</li> <li>• Self-aligning</li> <li>• Anti-reversal ability</li> <li>• Alloy steel</li> <li>• Using under heavy static or slight dynamic load</li> <li>• Imperial dimensions</li> </ul> |    |
| <p><b>HM-9-405-30-75Klb Mount</b></p> <ul style="list-style-type: none"> <li>• Alloy steel</li> <li>• No horizontal movement</li> </ul>                                                                                                                                                                                |   |
| <p><b>HM-9-409-5-20Klb</b></p> <ul style="list-style-type: none"> <li>• Easy installation</li> <li>• Compact construction</li> <li>• Self-aligning</li> <li>• Anti-reversal ability</li> <li>• Alloy steel</li> <li>• Using under heavy static or slight dynamic load</li> <li>• Metric dimensions</li> </ul>          |  |