



## Short Description



- Nickel plated Alloy steel IP68 Compression Load Cell
- Hermetically sealed
- Integrated mounting solution with separate pressure piece and silicone rubber dust protection sleeves
- Self-aligning construction
- Suitable for weigh bridges
- High accuracy



Test certificate no. TC12734 Revision 0  
C of C no R60/2017-A-NL1-24.03 Rev 0

## Available Models

| Capacity | Accuracy | Full Article Description |
|----------|----------|--------------------------|
| 30t      | C3/C4    | HM14H-C3/C4-30t-16T      |
| 40t      | C3/C4    | HM14H-C3/C4-40t-16T      |

## Technical Specifications HM14H-C3/C4-xtt-16T

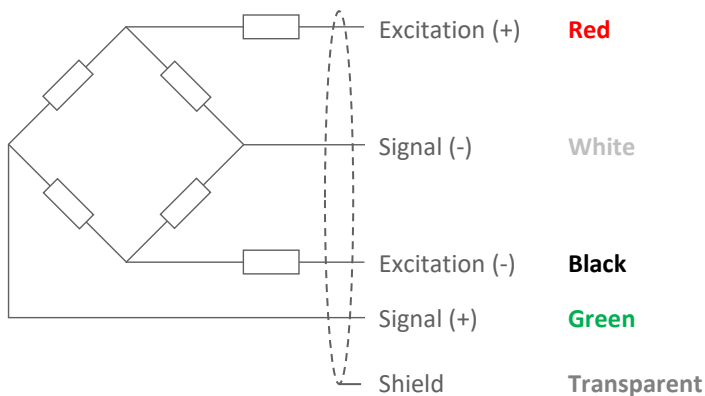
| Accuracy Class                          |                         | OIML R60 C3      | OIML R60 C4       |
|-----------------------------------------|-------------------------|------------------|-------------------|
| Maximum Capacity ( $E_{max}$ )          | t                       | 30, 40           |                   |
| Output Sensitivity ( = FS )             | mV/V                    | $2 \pm 0.02$     |                   |
| Max. Number of Load Cell Intervals      | $n_{LC}$                | 3000             | 4000              |
| Ratio of min. LC Verification Interval  | $Y = E_{max} / V_{min}$ | 12000            | 20000             |
| Combined Error                          | %FS                     | $\leq \pm 0.023$ | $\leq \pm 0.0175$ |
| Creep Error (30 minutes)                | %FS                     | $\leq \pm 0.025$ | $\leq \pm 0.012$  |
| Temperature Effect on Zero (ZTC)        | %FS/10°C                | $\leq \pm 0.015$ | $\leq \pm 0.010$  |
| Temperature Effect on Sensitivity (STC) | %FS/10°C                | $\leq \pm 0.011$ | $\leq \pm 0.009$  |
| Zero Balance                            | %FS                     | $\leq \pm 1.0$   |                   |
| Safe Overload                           | %FS                     | 150              |                   |
| Ultimate Overload                       | %FS                     | 200              |                   |
| Excitation, Recommended Voltage         | V                       | 5 ~ 12           |                   |
| Excitation, Maximum Voltage             | V                       | 18               |                   |
| Input Resistance                        | $\Omega$                | $750 \pm 20$     |                   |
| Output Resistance                       | $\Omega$                | $700 \pm 7$      |                   |
| Insulation Resistance (50V)             | M $\Omega$              | $\geq 5000$      |                   |
| Compensated Temperature                 | °C                      | -10 ~ + 40       |                   |
| Operating Temperature                   | °C                      | -30 ~ + 70       |                   |
| Load Cell Weight                        | kg                      | 8.4              |                   |
| Element Material                        |                         | Alloy Steel      |                   |
| Surface Treatment                       |                         | Nickel Plated    |                   |
| Ingress Protection (acc. to EN 60529)   |                         | IP68             |                   |

## Wiring

### Features:

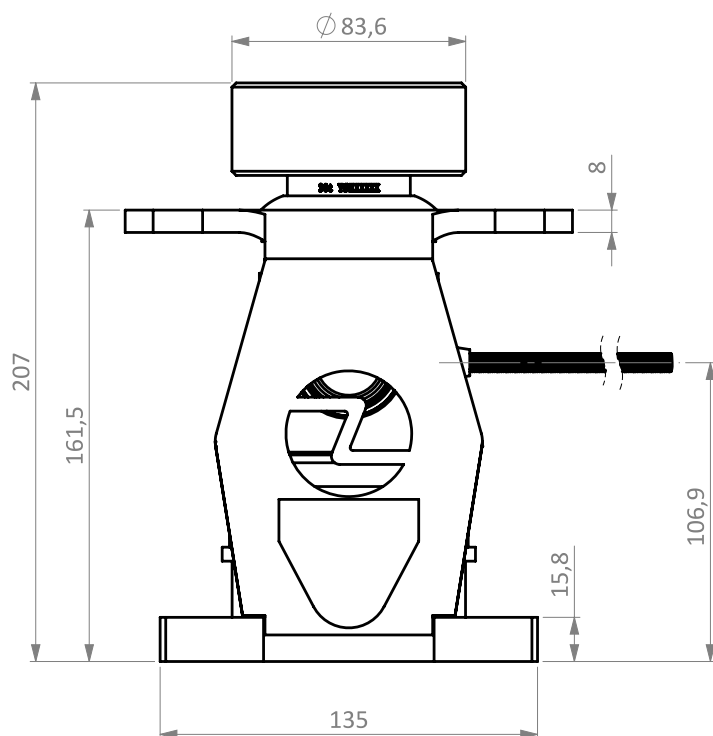
Cable type: Shielded, 4 conductor cable, conductor AWG 22  
 Cable diameter:  $\varnothing$  5.6mm  
 Cable length: 16m  $\pm$  0.1m (optional: 12m  $\pm$  0.1m)  
 Cable jacket: PVC  
 Shield not connected to element

### 4-Wire Connection Diagram

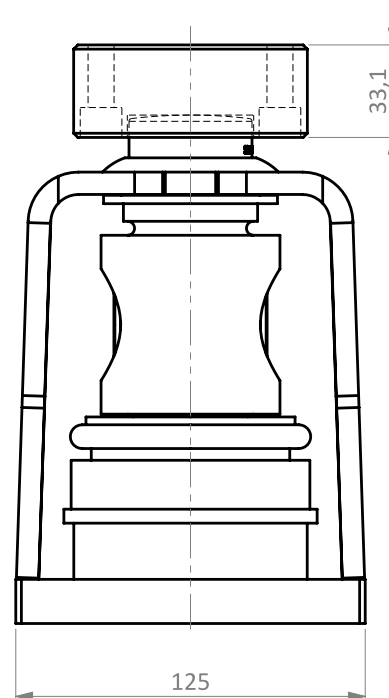


## Dimensions in mm

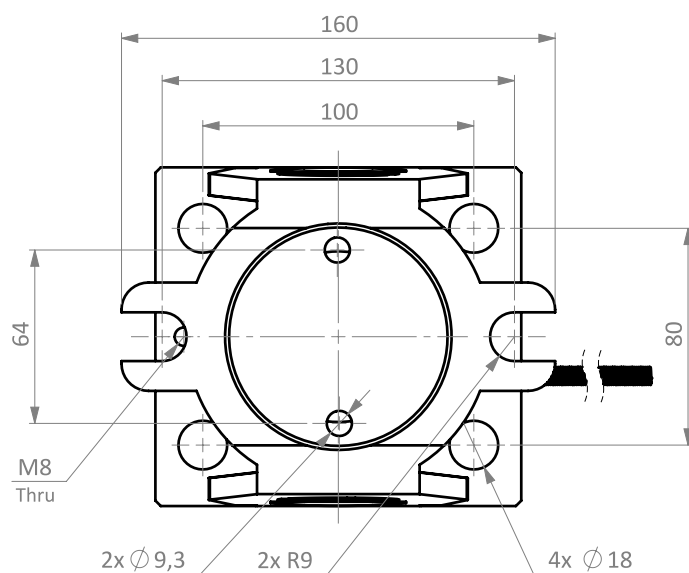
Front View



Side View



Top View



Isometric View

