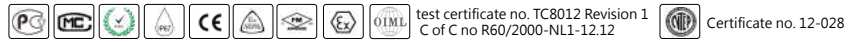


# H8C

## FEATURES

- Nickel plated alloy steel IP67 shear beam load cell (100 kg, 250kg are bending beam load cells)
- Adhesive sealed
- Suitable platform weighing, bed weighing, etc.
- High accuracy
- High reliability
- Current calibrated (sc-option)

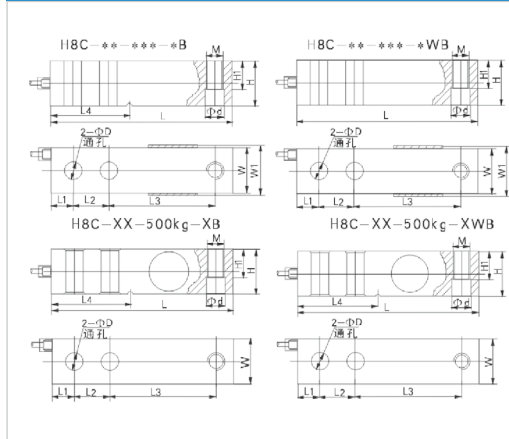


## SPECIFICATION

| Maximum capacity (E <sub>max</sub> )                                            | t                     | 0.5/1/2/2.5/3/4/5/6/7.5      |             |                     |                   |                     |
|---------------------------------------------------------------------------------|-----------------------|------------------------------|-------------|---------------------|-------------------|---------------------|
|                                                                                 | klb                   | 1/1.5/2/2.5/3/4/5/7.5/10/20  |             |                     |                   |                     |
| Accuracy class                                                                  |                       | C3                           | C4          | C5                  | A5M               | B10M                |
| Approvals                                                                       |                       | OIML R60 C3                  | OIML R60 C4 | OIML R60 C5         | III 5000 Multiple | III L10000 Multiple |
| Maximum number of load cell intervals (nLC)                                     |                       | 3000                         | 4000        | 5000                | 5000              | 10000               |
| Ratio of minimum LC verification interval Y=E <sub>max</sub> / V <sub>min</sub> |                       | 10000                        | 14000       | 18000               | 15000             | 10000               |
| Combined error                                                                  | %FS                   | ±0.020                       | ±0.018      | ±0.010              | ±0.026            | ±0.050              |
| Creep                                                                           | %FS/30min             | ±0.016                       | ±0.012      | ±0.010              | ±0.017            | ±0.040              |
| Temperature effect on sensitivity                                               | %FS/10°C              | ±0.011                       | ±0.009      | ±0.008              | ±0.013            | ±0.040              |
| Temperature effect on zero                                                      | %FS/10°C              | ±0.015                       | ±0.010      | ±0.007              | ±0.014            | ±0.020              |
| Output sensitivity (=FS)                                                        | mV/V                  | 3.0±0.003                    |             | 2.0±0.002           |                   |                     |
| Input resistance                                                                | Ω                     | 350±3.5                      |             |                     |                   |                     |
| Output resistance                                                               | Ω                     | 350±3.5                      |             |                     |                   |                     |
| Insulation resistance                                                           | MΩ                    | ≥ 5000 (50VDC)               |             |                     |                   |                     |
| Zero balance                                                                    | %FS                   | ±1.0                         |             |                     |                   |                     |
| Compensated temperature                                                         | °C                    | -10~+40                      |             |                     |                   |                     |
| Operating temperature                                                           | °C                    | -35~+70                      |             |                     |                   |                     |
| Excitation, recommended voltage                                                 | V                     | 5~12 (DC)                    |             |                     |                   |                     |
| Excitation maximum                                                              | V                     | 18 (DC)                      |             |                     |                   |                     |
| Safe overload                                                                   | %FS                   | 150                          |             |                     |                   |                     |
| Ultimate overload                                                               | %FS                   | 300                          |             |                     |                   |                     |
| Recommended torque on fixation                                                  | N.m                   | M12: 100, M18: 200, M24: 700 |             |                     |                   |                     |
| Ingress protection (according to EN 60529)                                      |                       | IP67                         |             |                     |                   |                     |
| ATEX classification (optional)                                                  | Operating temperature |                              |             | °C                  |                   | -20~+40             |
|                                                                                 | II1G Ex ia II1C T4    |                              |             | II1D Ex iaD20 T73°C |                   | II3G Ex nL II C T4  |
| "S1" Output Sensitivity is 2.0±0.002mV/V                                        |                       |                              |             |                     |                   |                     |

"S1" Output Sensitivity is 2.0±0.002MV/V

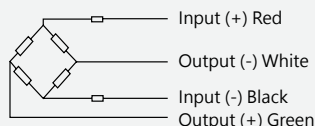
## DIMENSIONS IN MM



| Dimension<br>Capacity | L               | L1             | L2            | L3              | L4             | H              | Dimension<br>Capacity | H1             | W              | W1             | D              | d              | M             |
|-----------------------|-----------------|----------------|---------------|-----------------|----------------|----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| 0.5t-2t               | 130.0<br>(5.12) | 15.8<br>(0.62) | 25.4<br>(1.0) | 76.2<br>(3.0)   | 54.2<br>(2.13) | 31.8<br>(1.25) | 0.5t-2t               | 15.8<br>(0.62) | 31.8<br>(1.25) | 34.0<br>(1.34) | 13.5<br>(0.53) | 13.5<br>(0.53) | M12×1.75      |
| 1K-4K                 | 130.0<br>(5.12) | 15.8<br>(0.62) | 25.4<br>(1.0) | 76.2<br>(3.0)   | 54.2<br>(2.13) | 31.8<br>(1.25) | 1K-4K                 | 15.8<br>(0.62) | 31.8<br>(1.25) | 34.0<br>(1.34) | 13.5<br>(0.53) | 13.5<br>(0.53) | 1/2-<br>20UNF |
| 5KSE                  | 130.0<br>(5.12) | 15.8<br>(0.62) | 25.4<br>(1.0) | 76.2<br>(3.0)   | 54.2<br>(2.13) | 31.8<br>(1.25) | 5KSE                  | 15.8<br>(0.62) | 31.8<br>(1.25) | 34.0<br>(1.34) | 13.5<br>(0.53) | 13.5<br>(0.53) | 1/2-<br>21UNF |
| 2.5t-5t               | 171.5<br>(6.75) | 19.1<br>(0.75) | 38.1<br>(1.5) | 95.3<br>(3.75)  | 77.2<br>(3.04) | 38.1<br>(1.5)  | 2.5t-5t               | 18.8<br>(0.74) | 38.1<br>(1.5)  | 40.0<br>(1.57) | 19.8<br>(0.78) | 19.8<br>(0.78) | M18×1.5       |
| 5K-10K                | 171.5<br>(6.75) | 19.1<br>(0.75) | 38.1<br>(1.5) | 95.3<br>(3.75)  | 77.2<br>(3.04) | 38.1<br>(1.5)  | 5K-10K                | 18.8<br>(0.74) | 38.1<br>(1.5)  | 40.0<br>(1.57) | 19.8<br>(0.78) | 19.8<br>(0.78) | 3/4-<br>16UNF |
| 10t                   | 222.3<br>(8.75) | 25.4<br>(1.0)  | 50.8<br>(2.0) | 120.7<br>(4.75) | 101.6<br>(4)   | 50.8<br>(2.0)  | 10t                   | 25.4<br>(1.0)  | 50.8<br>(2)    | 52.4<br>(2.06) | 26.9<br>(1.06) | 26.0<br>(1.02) | M24×2         |
| 20K                   | 222.3<br>(8.75) | 25.4<br>(1.0)  | 50.8<br>(2.0) | 120.7<br>(4.75) | 101.6<br>(4)   | 50.8<br>(2.0)  | 20K                   | 25.4<br>(1.0)  | 50.8<br>(2)    | 52.4<br>(2.06) | 26.9<br>(1.06) | 26.0<br>(1.02) | 1-12UNF       |

| Dimension<br>Capacity | L               | L1             | L2            | L3            | L4             | H              | H1             | W              | W1             | D              | d              | M        |
|-----------------------|-----------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
| 500kg                 | 130.0<br>(5.12) | 15.8<br>(0.62) | 25.4<br>(1.0) | 76.2<br>(3.0) | 54.2<br>(2.13) | 31.8<br>(1.25) | 15.8<br>(0.62) | 31.8<br>(1.25) | 34.0<br>(1.34) | 13.5<br>(0.53) | 13.5<br>(0.53) | M12×1.75 |

## WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ5mm
- Standard cable length for 100kg - 2t: 4m and 6m for the higher capacities
- Shield is not connected to the element