

# Shear Beam Load Cell

Model: AS130

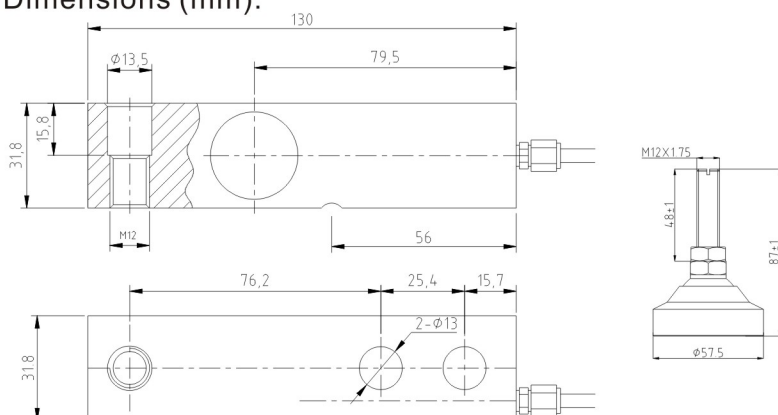


## FEATURES

- Capacity: 500kg-2500kg
- Material: Alloy Steel
- Surface Treatment: Nickle plated
- IP rating: IP67
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             | kg                        |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|---------------------------|
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             | °C                        |
| Safe overload                                      | 150                                     |                          |             | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             | m                         |
| Recommended torque                                 | 98                                      |                          |             | N.m                       |

# Shear Beam Load Cell

Model: AS130S

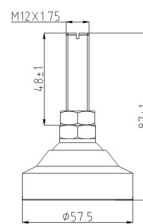
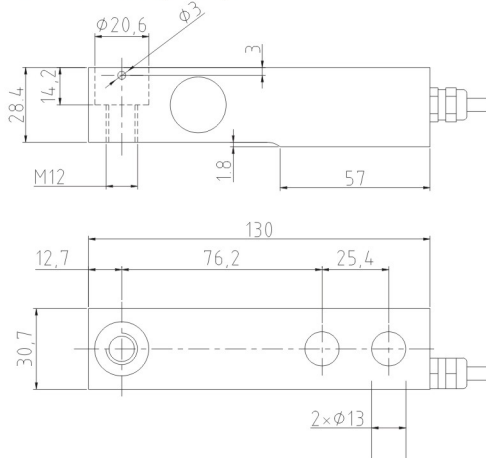


## FEATURES

- Capacity: 500kg-2500kg
- Material: Alloy Steel
- Surface Treatment: Nickle plated
- IP rating: IP67
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



## Dimensions (mm):



## Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             | °C                        |
| Safe overload                                      | 150                                     |                          |             | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             | m                         |
| Recommended torque                                 | 98                                      |                          |             | N.m                       |

# Shear Beam Load Cell

Model: AS133

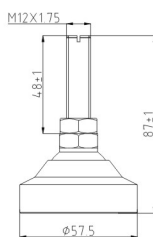
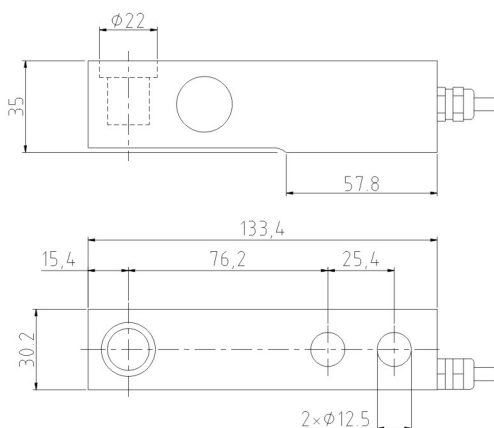


## FEATURES

- Capacity: 500kg-2500kg
- Material: Alloy Steel
- Surface Treatment: Nickle plated
- IP rating: IP67
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             | % of E <sub>max</sub> /°C |
|                                                    |                                         |                          |             |                           |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             | °C                        |
| Safe overload                                      | 150                                     |                          |             | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             | m                         |
| Recommended torque                                 | 98                                      |                          |             | N.m                       |

# Shear Beam Load Cell

Model: AS137

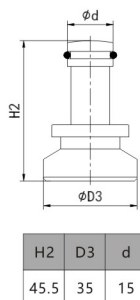
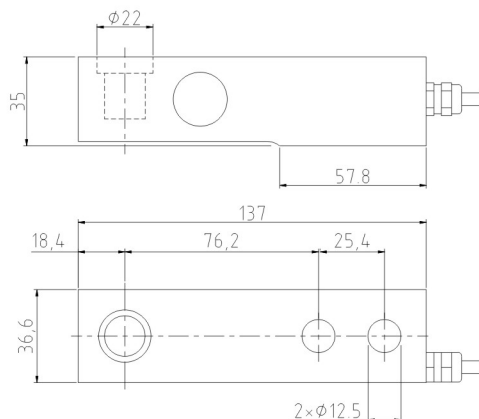


## FEATURES

- Capacity: 500kg-2500kg
- Material: Alloy Steel
- Surface Treatment: Nickle plated
- IP rating: IP67
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                          |                                         |              |               |
|----------------------------------------------|-----------------------------------------|--------------|---------------|
| Rated capacity ( $E_{max}$ )                 | 500 / 1000 / 1500 / 2000 / 2500         |              |               |
|                                              | kg                                      |              |               |
| Accuracy class                               | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |              |               |
|                                              | lb                                      |              |               |
| Maximum number of LC intervals ( $n_{max}$ ) | C3                                      | C4           | C5            |
| Min. LC verification interval ( $v_{min}$ )  | 3000                                    | 4000         | 5000          |
| Rated output                                 | $E_{max} / 5000$ $E_{max} / 10000$      |              |               |
| Zero balance                                 | $2.0 \pm 0.002$ $3.0 \pm 0.003$         |              |               |
| Temp. effect on rated output +20...+40°C     | $\pm 0.00175$                           | $\pm 0.0013$ | $\pm 0.00105$ |
| -10...+20°C                                  | $\pm 0.00117$                           | $\pm 0.0009$ | $\pm 0.0007$  |
| Temp. effect on zero balance                 | $\pm 0.0028$                            | $\pm 0.0014$ |               |
| Hysteresis error                             | $\pm 0.0175$                            | $\pm 0.0131$ | $\pm 0.0105$  |
| Non-linearity error                          | $\pm 0.0175$                            | $\pm 0.0131$ | $\pm 0.0105$  |
| Min. dead load output return                 | $\pm 0.0166$                            | $\pm 0.0125$ | $\pm 0.01$    |
| Input resistance                             | $350 \pm 5$                             |              |               |
| Output resistance                            | $350 \pm 3$                             |              |               |
| Insulation resistance @50VDC                 | $\geq 5000$                             |              |               |
| Excitation, recommended voltage              | 5~15                                    |              |               |
| Excitation, maximum voltage                  | 20                                      |              |               |
| Compensated temperature                      | -10 to +40                              |              |               |
| Operating temperature                        | -30 to +65                              |              |               |
| Safe overload                                | 150                                     |              |               |
| Ultimate overload                            | 300                                     |              |               |
| Standard cable length                        | 3.0                                     |              |               |
| Recommended torque                           | 98                                      |              |               |



# Shear Beam Load Cell

Model: AS203

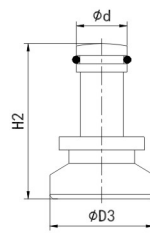
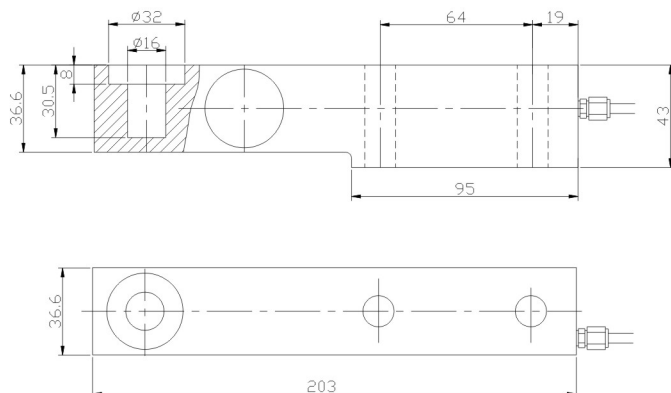


## FEATURES

- Capacity: 500kg-2500kg
- Material: Alloy Steel
- Surface Treatment: Nickle plated
- IP rating: IP67
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



Dimensions (mm):



| H2   | D3 | d  |
|------|----|----|
| 45.5 | 35 | 15 |

Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             | °C                        |
| Safe overload                                      | 150                                     |                          |             | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             | m                         |
| Recommended torque                                 | 98                                      |                          |             | N.m                       |

# Shear Beam Load Cell

Model: SS130

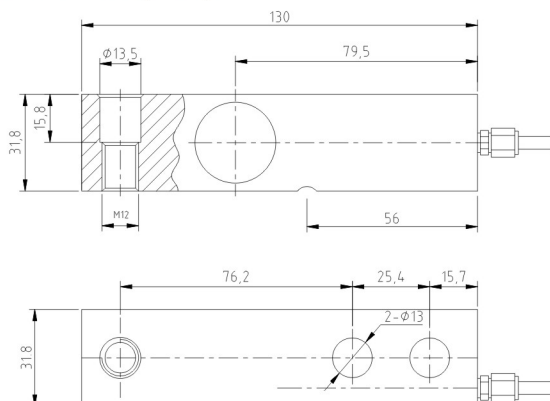


## FEATURES

- Capacity: 500kg-2500kg
- Material: Stainless steel
- Protection type: Hermetically sealed
- IP rating: IP68
- OIML Certificate no: R60/2017-A-NL1-22-04
- NTEP Certificate no: 23-057



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |           |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             |           | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             |           | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             |           | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 |           | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | ± 0.00087 | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    | ± 0.0007  |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | ± 0.0022  | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             |           | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             |           | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             |           | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             |           | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             |           | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             |           | °C                        |
| Safe overload                                      | 150                                     |                          |             |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             |           | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             |           | m                         |
| Recommended torque                                 | 98                                      |                          |             |           | N.m                       |

# Shear Beam Load Cell

Model: SS130S

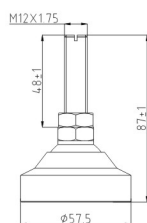
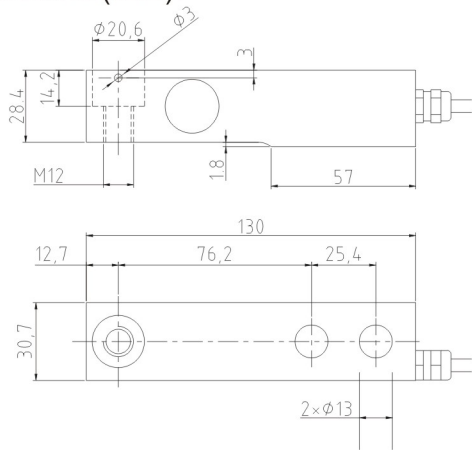


## FEATURES

- Capacity: 500kg-2500kg
- Material: Stainless steel
- Protection type: Hermetically sealed
- IP rating: IP68
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |           |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             |           | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             |           | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             |           | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 |           | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | ± 0.00087 | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    | ± 0.0007  |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | ± 0.0022  | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             |           | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             |           | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             |           | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             |           | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             |           | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             |           | °C                        |
| Safe overload                                      | 150                                     |                          |             |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             |           | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             |           | m                         |
| Recommended torque                                 | 98                                      |                          |             |           | N.m                       |

# Shear Beam Load Cell

Model: SS133

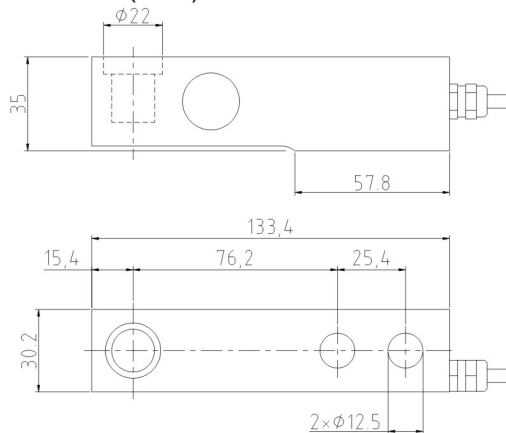


## FEATURES

- Capacity: 500kg-2500kg
- Material: Stainless steel
- Protection type: Hermetically sealed
- IP rating: IP68
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |           |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             |           | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             |           | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             |           | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 |           | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                               | ± 0.0009                 | ± 0.0007    | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | ± 0.0022  | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             |           | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             |           | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             |           | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             |           | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             |           | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             |           | °C                        |
| Safe overload                                      | 150                                     |                          |             |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             |           | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             |           | m                         |
| Recommended torque                                 | 98                                      |                          |             |           | N.m                       |



# Shear Beam Load Cell

Model: SS137

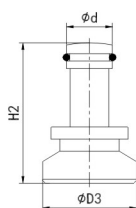
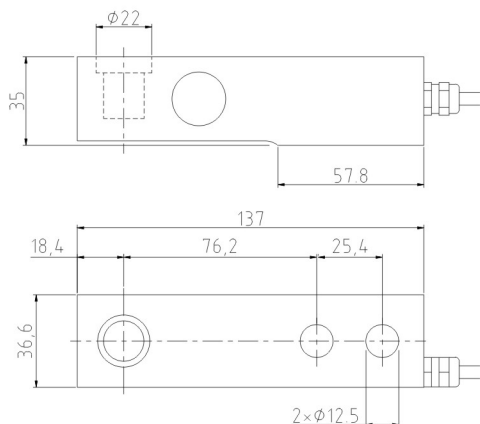


## FEATURES

- Capacity: 500kg-2500kg
- Material: Stainless steel
- Protection type: Hermetically sealed
- IP rating: IP68
- OIML Certificate no:R60/2017-A-NL1-22-04
- NTEP Certificate no:23-057



Dimensions (mm):



| H2   | D3 | d  |
|------|----|----|
| 45.5 | 35 | 15 |

Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |           |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             |           | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             |           | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             |           | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 |           | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | ± 0.00087 | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    | ± 0.0007  |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | ± 0.0022  | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             |           | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             |           | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             |           | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             |           | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             |           | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             |           | °C                        |
| Safe overload                                      | 150                                     |                          |             |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             |           | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             |           | m                         |
| Recommended torque                                 | 98                                      |                          |             |           | N.m                       |

# Shear Beam Load Cell

Model: SS203

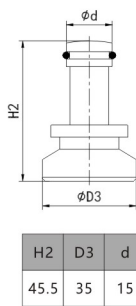
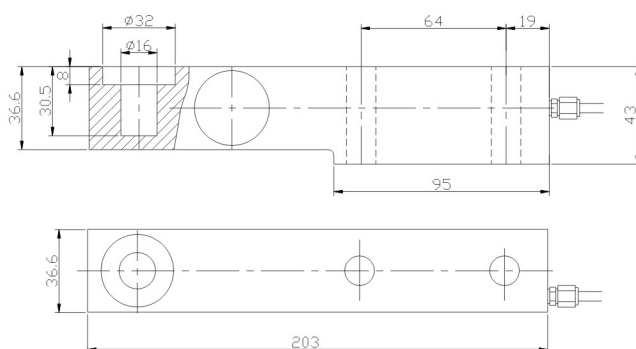


## FEATURES

- Capacity: 500kg-2500kg
- Material: Stainless steel
- Protection type: Hermetically sealed
- IP rating: IP68
- OIML Certificate no: R60/2017-A-NL1-22-04
- NTEP Certificate no: 23-057



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                         |                          |             |           |                           |
|----------------------------------------------------|-----------------------------------------|--------------------------|-------------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 1000 / 1500 / 2000 / 2500         |                          |             |           | kg                        |
|                                                    | 1000 / 1500 / 2000 / 3000 / 4000 / 5000 |                          |             |           | lb                        |
| Accuracy class                                     | C3                                      | C4                       | C5          | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                    | 4000                     | 5000        | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                 | E <sub>max</sub> / 10000 |             |           | kg                        |
| Rated output                                       | 2.0 ± 0.002                             |                          | 3.0 ± 0.003 |           | mV/V                      |
| Zero balance                                       | ± 1.0                                   |                          |             |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                               | ± 0.0013                 | ± 0.00105   | ± 0.00087 | % of AL/°C                |
|                                                    | -10...+20°C                             | ± 0.00117                | ± 0.0009    | ± 0.0007  |                           |
| Temp. effect on zero balance                       | ± 0.0028                                | ± 0.0014                 |             |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                | ± 0.0131                 | ± 0.0105    | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                | ± 0.0125                 | ± 0.01      | ± 0.0022  | % of AL                   |
| Input resistance                                   | 350 ± 5                                 |                          |             |           | Ω                         |
| Output resistance                                  | 350 ± 3                                 |                          |             |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                  |                          |             |           | MΩ                        |
| Excitation, recommended voltage                    | 5~15                                    |                          |             |           | V DC                      |
| Excitation, maximum voltage                        | 20                                      |                          |             |           | V DC                      |
| Compensated temperature                            | -10 to +40                              |                          |             |           | °C                        |
| Operating temperature                              | -30 to +65                              |                          |             |           | °C                        |
| Safe overload                                      | 150                                     |                          |             |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                     |                          |             |           | % of E <sub>max</sub>     |
| Standard cable length                              | 3.0                                     |                          |             |           | m                         |
| Recommended torque                                 | 98                                      |                          |             |           | N.m                       |

# Single Point Load Cell

Model: AL130

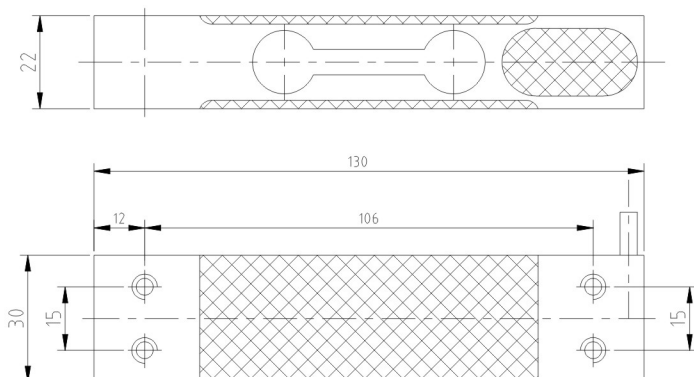


## FEATURES

- Capacity: 3kg-50kg
- Material: Aluminium alloy steel
- Max platform size: 300x350mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-22.21
- NTEP Certificate no: 23-028



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                     |                          |           |           |                           |
|----------------------------------------------------|-------------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 3 / 5 / 10 / 15 / 20 / 30 / 40 / 50 |                          |           |           | kg                        |
|                                                    | 6.6 / 22 / 44 / 66 / 88 / 110       |                          |           |           | lb                        |
| Accuracy class                                     | C3                                  | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000             | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                           |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                               |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                           | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                           | ± 0.00117                | ± 0.0007  | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                            | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                            | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                            | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                            | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                            |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                             |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                              |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                  |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                  |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                          |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                         |                          |           |           | °C                        |
| Safe overload                                      | 150                                 |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                 |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 1.5                                 |                          |           |           | m                         |
| Recommended torque                                 | 10                                  |                          |           |           | N.m                       |

# Single Point Load Cell

Model: AL130L

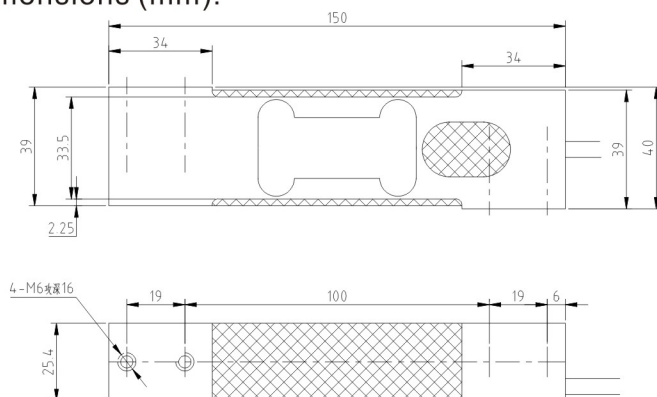


## FEATURES

- Capacity: 3kg-100kg
- Material: Aluminium alloy steel
- Max platform size: 300x350mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-22.21
- NTEP Certificate no: 23-028



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                           |                                           |                    |           |           |                                  |
|-----------------------------------------------|-------------------------------------------|--------------------|-----------|-----------|----------------------------------|
| Rated capacity ( $E_{\max}$ )                 | 3 / 5 / 10 / 15 / 20 / 30 / 40 / 50 / 100 |                    |           |           | kg                               |
|                                               | 6.6 / 22 / 44 / 110 / 220 / 330           |                    |           |           | lb                               |
| Accuracy class                                | C3                                        | C3MR               | C5        | C6        |                                  |
| Maximum number of LC intervals ( $n_{\max}$ ) | 3000                                      | 2*3000             | 5000      | 6000      |                                  |
| Min. LC verification interval ( $v_{\min}$ )  | $E_{\max} / 5000$                         | $E_{\max} / 10000$ |           |           | kg                               |
| Rated output                                  | 2.0 ± 0.2                                 |                    |           |           | mV/V                             |
| Zero balance                                  | ± 0.1                                     |                    |           |           | % of $E_{\max}$                  |
| Temp. effect on rated output +20...+40°C      | ± 0.00175                                 | ± 0.00175          | ± 0.00105 | ± 0.00087 | % of AL/°C                       |
|                                               | -10...+20°C                               | ± 0.00117          | ± 0.00117 | ± 0.0007  |                                  |
| Temp. effect on zero balance                  | ± 0.0028                                  | ± 0.0014           |           |           | % of $E_{\max}/^{\circ}\text{C}$ |
| Hysteresis error                              | ± 0.0175                                  | ± 0.0175           | ± 0.0105  | ± 0.0105  | % of $E_{\max}$                  |
| Non-linearity error                           | ± 0.0175                                  | ± 0.0175           | ± 0.0105  | ± 0.0105  | % of $E_{\max}$                  |
| Min. dead load output return                  | ± 0.0166                                  | ± 0.0166           | ± 0.0100  | ± 0.0083  | % of AL                          |
| Input resistance                              | 404 ± 15                                  |                    |           |           | Ω                                |
| Output resistance                             | 350 ± 3                                   |                    |           |           | Ω                                |
| Insulation resistance @50VDC                  | ≥ 5000                                    |                    |           |           | MΩ                               |
| Excitation, recommended voltage               | 10                                        |                    |           |           | V DC                             |
| Excitation, maximum voltage                   | 15                                        |                    |           |           | V DC                             |
| Compensated temperature                       | -10 to +40                                |                    |           |           | °C                               |
| Operating temperature                         | -10 to + 50                               |                    |           |           | °C                               |
| Safe overload                                 | 150                                       |                    |           |           | % of $E_{\max}$                  |
| Ultimate overload                             | 300                                       |                    |           |           | % of $E_{\max}$                  |
| Standard cable length                         | 1.5                                       |                    |           |           | m                                |
| Recommended torque                            | 10                                        |                    |           |           | N.m                              |



# Single Point Load Cell

Model: AL130W

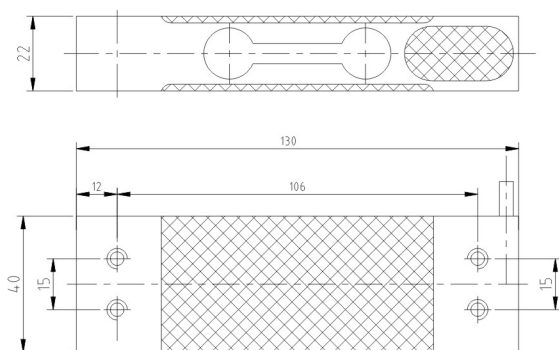


## FEATURES

- Capacity: 40kg-200kg
- Material: Aluminium alloy steel
- Max platform size: 300x400mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-22.21
- NTEP Certificate no: 23-028



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                 |                          |           |           |                           |
|----------------------------------------------------|---------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 40 / 50 / 100 / 200             |                          |           |           | kg                        |
|                                                    | 66 / 88 / 110 / 220 / 330 / 440 |                          |           |           | lb                        |
| Accuracy class                                     | C3                              | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                            | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000         | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                       |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                           |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                       | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
|                                                    | -10...+20°C                     | ± 0.00117                | ± 0.00117 | ± 0.0007  |                           |
| Temp. effect on zero balance                       | ± 0.0028                        | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                        | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                        | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                        | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                        |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                         |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                          |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                              |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                              |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                      |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                     |                          |           |           | °C                        |
| Safe overload                                      | 150                             |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                             |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 1.5                             |                          |           |           | m                         |
| Recommended torque                                 | 10                              |                          |           |           | N.m                       |

# Single Point Load Cell

Model: AL150

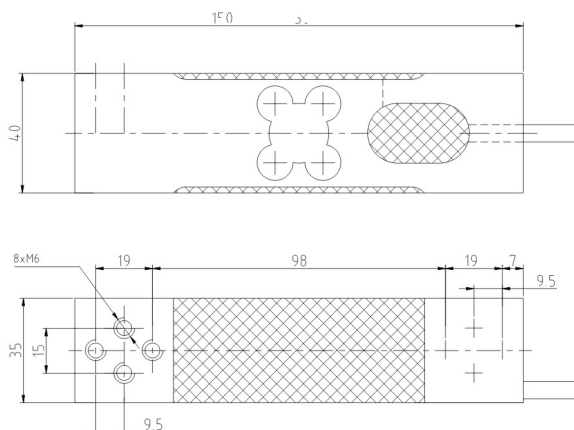


## FEATURES

- Capacity: 30kg-500kg
- Material: Aluminium alloy steel
- Max platform size: 400x500mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-22.22
- NTEP Certificate no: 23-027



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                    |                          |           |           |                           |
|----------------------------------------------------|------------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 60 / 100 / 200 / 300 / 500         |                          |           |           | kg                        |
|                                                    | 130 / 220 / 330 / 440 / 660 / 1100 |                          |           |           | lb                        |
| Accuracy class                                     | C3                                 | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                               | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000            | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                          |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                              |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                          | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                          | ± 0.00117                | ± 0.0007  | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                           | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                           | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                           |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                            |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                             |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                 |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                 |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                         |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                        |                          |           |           | °C                        |
| Safe overload                                      | 150                                |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 1.5                                |                          |           |           | m                         |
| Recommended torque                                 | 14                                 |                          |           |           | N.m                       |

# Single Point Load Cell

Model: AL150Q

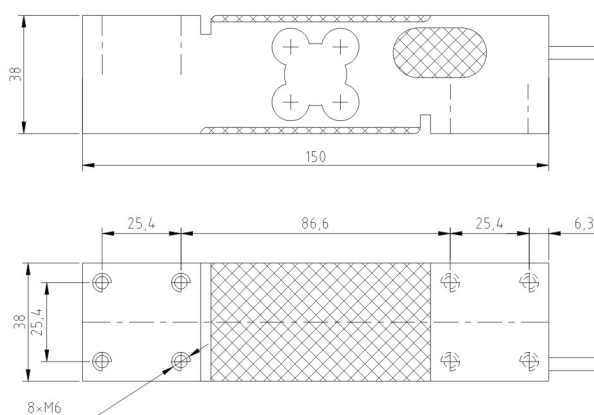


## FEATURES

- Capacity: 30kg-500kg
- Material: Aluminium alloy steel
- Max platform size: 400x500mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-22.22
- NTEP Certificate no: 23-027



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                    |                          |           |           |                           |
|----------------------------------------------------|------------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 60 / 100 / 200 / 300 / 500         |                          |           |           | kg                        |
|                                                    | 130 / 220 / 330 / 440 / 660 / 1100 |                          |           |           | lb                        |
| Accuracy class                                     | C3                                 | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                               | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000            | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                          |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                              |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                          | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                          | ± 0.00117                | ± 0.0007  | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                           | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                           | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                           |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                            |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                             |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                 |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                 |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                         |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                        |                          |           |           | °C                        |
| Safe overload                                      | 150                                |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 1.5                                |                          |           |           | m                         |
| Recommended torque                                 | 14                                 |                          |           |           | N.m                       |

# Single Point Load Cell

Model: AL150W

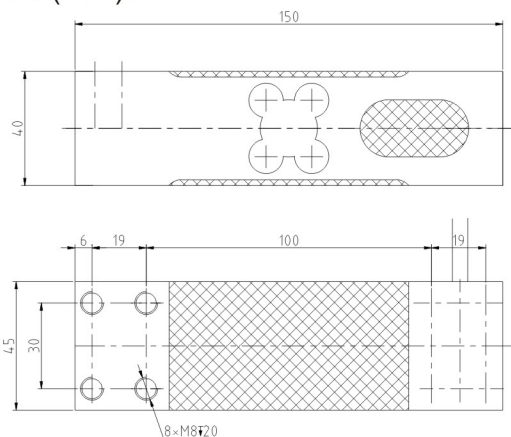


## FEATURES

- Capacity: 30kg-500kg
- Material: Aluminium alloy steel
- Max platform size: 400x500mm
- IP rating: IP65
- OIML Certificate no:R60-2017-A-NL1-22.22
- NTEP Certificate no:23-027



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

| Rated capacity (E <sub>max</sub> )                 | 60 / 100 / 200 / 300 / 500         |                          |           |           | kg                        |
|----------------------------------------------------|------------------------------------|--------------------------|-----------|-----------|---------------------------|
|                                                    | 130 / 220 / 330 / 440 / 660 / 1100 |                          |           |           | lb                        |
| Accuracy class                                     | C3                                 | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                               | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000            | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                          |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                              |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                          | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                          | ± 0.00117                | ± 0.0007  | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                           | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                           | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                           |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                            |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                             |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                 |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                 |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                         |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                        |                          |           |           | °C                        |
| Safe overload                                      | 150                                |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 1.5                                |                          |           |           | m                         |
| Recommended torque                                 | 14                                 |                          |           |           | N.m                       |



# Single Point Load Cell

Model: AL174

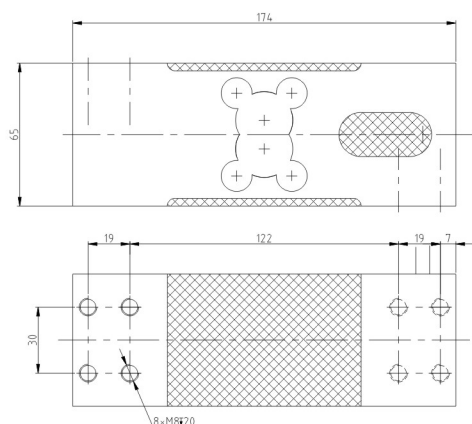


## FEATURES

- Capacity: 50kg-1000kg
- Material: Aluminium alloy steel
- Max platform size: 600x600mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-22.23
- NTEP Certificate no: 23-026



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                   |                          |           |           |                           |
|----------------------------------------------------|-----------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 50 / 100 / 300 / 500 / 750 / 1000 |                          |           |           | kg                        |
|                                                    | 130 / 220 / 660 / 1100 / 1650     |                          |           |           | lb                        |
| Accuracy class                                     | C3                                | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                              | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000           | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                         |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                             |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                         | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
|                                                    | -10...+20°C                       | ± 0.00117                | ± 0.00117 | ± 0.0007  |                           |
| Temp. effect on zero balance                       | ± 0.0028                          | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                          | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                          | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                          | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                          |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                           |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                            |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                        |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                       |                          |           |           | °C                        |
| Safe overload                                      | 150                               |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                               |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 2.5                               |                          |           |           | m                         |
| Recommended torque                                 | 14                                |                          |           |           | N.m                       |

# Single Point Load Cell

Model: AL176

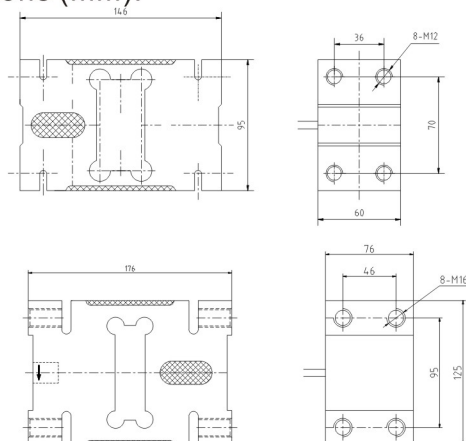


## FEATURES

- Capacity: 500kg-2000kg
- Material: Aluminium alloy steel
- Max platform size: 1200x1200mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-21.06
- NTEP Certificate no: 23-029



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                        |                          |           |           |                           |
|----------------------------------------------------|----------------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 500 / 750 / 1000 / 2000                |                          |           |           | kg                        |
|                                                    | 550 / 1100 / 1650 / 2200 / 4400        |                          |           |           | lb                        |
| Accuracy class                                     | C3                                     | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                   | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                              |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                                  |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                              | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                              | ± 0.00117                | ± 0.0007  | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                               | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                               | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                               | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                               | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                               |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                                |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                 |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                     |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                     |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                             |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                            |                          |           |           | °C                        |
| Safe overload                                      | 150                                    |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                    |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 2.5                                    |                          |           |           | m                         |
| Recommended torque                                 | 500-1000kg: 98.0 / above 1000kg: 140.0 |                          |           |           | N.m                       |

# Single Point Load Cell

Model: AL188

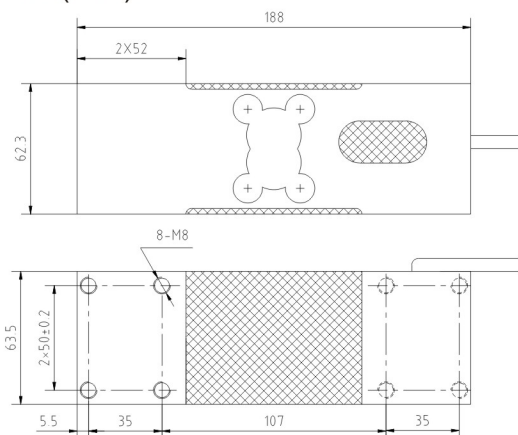


## FEATURES

- Capacity: 500kg-1000kg
- Material: Aluminium alloy steel
- Max platform size: 600x800mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL1-22.23
- NTEP Certificate no: 23-026



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                                |                                                    |                          |           |           |                           |
|----------------------------------------------------|----------------------------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 50 / 100 / 150 / 200 / 250 / 300 / 500 / 750 /1000 |                          |           |           | kg                        |
|                                                    | 165 / 220 / 330 / 440 / 660 / 1100                 |                          |           |           | lb                        |
| Accuracy class                                     | C3                                                 | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                               | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                            | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                                          |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                                              |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                                          | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                                          | ± 0.00117                | ± 0.0007  | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                                           | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                           | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                           | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                                           |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                                            |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                             |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                                 |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                                 |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                                         |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                                        |                          |           |           | °C                        |
| Safe overload                                      | 150                                                |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                                |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 2.5                                                |                          |           |           | m                         |
| Recommended torque                                 | 50-300kg: 25.0 / above 300kg: 30.0                 |                          |           |           | N.m                       |

# Single Point Load Cell

Model: AL191

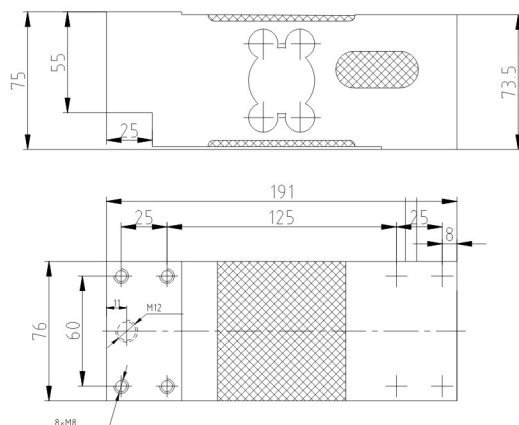


## FEATURES

- Capacity: 50kg-1000kg
- Material: Aluminium alloy steel
- Max platform size: 600x800mm
- IP rating: IP65
- OIML Certificate no: R60-2017-A-NL 1-22.23
- NTEP Certificate no: 23-026



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

|                                                    |                                                     |                          |           |           |                           |
|----------------------------------------------------|-----------------------------------------------------|--------------------------|-----------|-----------|---------------------------|
| Rated capacity (E <sub>max</sub> )                 | 50 / 100 / 150 / 200 / 250 / 300 / 500 / 750 / 1000 |                          |           |           | kg                        |
|                                                    | 660 / 1400                                          |                          |           |           | lb                        |
| Accuracy class                                     | C3                                                  | C3MR                     | C5        | C6        |                           |
| Maximum number of LC intervals (n <sub>max</sub> ) | 3000                                                | 2*3000                   | 5000      | 6000      |                           |
| Min. LC verification interval (v <sub>min</sub> )  | E <sub>max</sub> / 5000                             | E <sub>max</sub> / 10000 |           |           | kg                        |
| Rated output                                       | 2.0 ± 0.2                                           |                          |           |           | mV/V                      |
| Zero balance                                       | ± 0.1                                               |                          |           |           | % of E <sub>max</sub>     |
| Temp. effect on rated output +20...+40°C           | ± 0.00175                                           | ± 0.00175                | ± 0.00105 | ± 0.00087 | % of AL/°C                |
| -10...+20°C                                        | ± 0.00117                                           | ± 0.00117                | ± 0.0007  | ± 0.00058 |                           |
| Temp. effect on zero balance                       | ± 0.0028                                            | ± 0.0014                 |           |           | % of E <sub>max</sub> /°C |
| Hysteresis error                                   | ± 0.0175                                            | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Non-linearity error                                | ± 0.0175                                            | ± 0.0175                 | ± 0.0105  | ± 0.0105  | % of E <sub>max</sub>     |
| Min. dead load output return                       | ± 0.0166                                            | ± 0.0166                 | ± 0.0100  | ± 0.0083  | % of AL                   |
| Input resistance                                   | 404 ± 15                                            |                          |           |           | Ω                         |
| Output resistance                                  | 350 ± 3                                             |                          |           |           | Ω                         |
| Insulation resistance @50VDC                       | ≥ 5000                                              |                          |           |           | MΩ                        |
| Excitation, recommended voltage                    | 10                                                  |                          |           |           | V DC                      |
| Excitation, maximum voltage                        | 15                                                  |                          |           |           | V DC                      |
| Compensated temperature                            | -10 to +40                                          |                          |           |           | °C                        |
| Operating temperature                              | -10 to + 50                                         |                          |           |           | °C                        |
| Safe overload                                      | 150                                                 |                          |           |           | % of E <sub>max</sub>     |
| Ultimate overload                                  | 300                                                 |                          |           |           | % of E <sub>max</sub>     |
| Standard cable length                              | 2.5                                                 |                          |           |           | m                         |
| Recommended torque                                 | 50-300kg: 25.0 / above 300kg: 30.0                  |                          |           |           | N.m                       |



# Shear Beam Load Cell

Model: HH8C/HH8C-SS

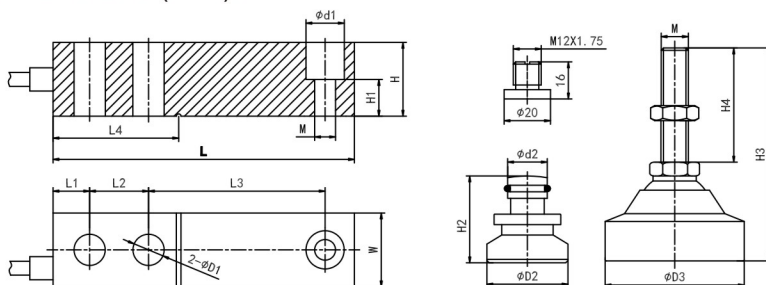


## FEATURES

- Capacity: 500kg-5000kg
- Material: Alloy steel/Stainless steel
- Surface treatment: Nickle plated
- IP rating: IP66/IP67
- Suitable for platform scale, bed weighing, etc.



Dimensions (mm):



| 量程        | L     | L1   | L2   | L3    | L4    | H    | H1   | W    | D1   | d1   | M         | D3 | H3  | H4 | D2 | H2   | d2   |
|-----------|-------|------|------|-------|-------|------|------|------|------|------|-----------|----|-----|----|----|------|------|
| 0.5t~2.5t | 130   | 15.8 | 25.4 | 76.2  | 54.2  | 31.8 | 15.8 | 31.8 | 13.5 | 13.5 | M12x1.75  | 60 | 92  | 50 | 35 | 37.2 | 19.5 |
| 1k~5k     | 130   | 15.8 | 25.4 | 76.2  | 54.2  | 31.8 | 15.8 | 31.8 | 13.5 | 13.5 | 1/2-20UNF | 60 | 92  | 50 | 35 | 37.2 | 19.5 |
| 2.5t~5t   | 171.5 | 19.1 | 38.1 | 95.3  | 77.2  | 38.1 | 18.8 | 31.8 | 19.8 | 19.8 | M18x1.5   | 80 | 105 | 50 | /  | /    | /    |
| 5k~10k    | 171.5 | 19.1 | 38.1 | 95.3  | 77.2  | 38.1 | 18.8 | 31.8 | 19.8 | 19.8 | 3/4-16UNF | 80 | 105 | 50 | /  | /    | /    |
| 10t       | 222.3 | 25.4 | 50.8 | 120.7 | 101.6 | 50.8 | 25.4 | 50.8 | 26.9 | 26   | M24x2     | 86 | 112 | 50 | /  | /    | /    |
| 20k       | 222.3 | 25.4 | 50.8 | 120.7 | 101.6 | 50.8 | 25.4 | 50.8 | 26.9 | 26   | 1-12UNF   | 86 | 112 | 50 | /  | /    | /    |

Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

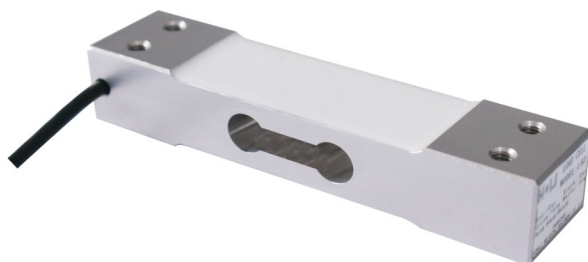
| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

|                                 |                                          |           |
|---------------------------------|------------------------------------------|-----------|
| Rated capacity ( $E_{max}$ )    | 500 / 1000 / 1500 / 2000 / 3000 / 5000   | kg        |
|                                 | 1100 / 2200 / 3300 / 4400 / 6600 / 11000 | lb        |
| Accuracy class                  | C3                                       |           |
| Rated output                    | 2.0 ± 0.002      3.0 ± 0.003             | mV/V      |
| Zero output                     | 1.0                                      | % FS      |
| Maximum Division                | 3000                                     | nmax      |
| Minimum Division                | $E_{max}/10000$                          | Vmin      |
| Creep deformation               | ≤ ± 0.0016                               | %FS/30min |
| Temp. effect on zero balance    | ≤ ± 0.015                                | %FS/10°C  |
| Input resistance                | 350 ± 3                                  | Ω         |
| Output resistance               | 350 ± 3                                  | Ω         |
| Insulation resistance @50VDC    | ≥ 5000                                   | MΩ        |
| Excitation, recommended voltage | 5~12                                     | V DC      |
| Excitation, maximum voltage     | 18                                       | V DC      |
| Compensated temperature         | -10 to +40                               | °C        |
| Operating temperature           | -30 to + 65                              | °C        |
| Safe overload                   | 120                                      | % FS      |
| Limit overload                  | 300                                      | % FS      |
| Standard cable length           | 3.0                                      | m         |

# Single Point Load Cell

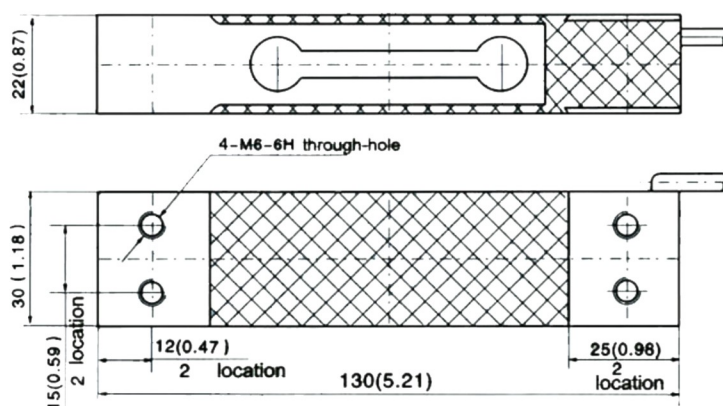
Model: HL6D



## FEATURES

- Capacity: 3kg-50kg
- Material: Aluminium alloy steel
- Max platform size: 250x350mm
- IP rating: IP65

Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter             |                                     |            |
|---------------------------------|-------------------------------------|------------|
| Rated capacity ( $E_{max}$ )    | 3 / 6 / 10 / 15 / 20 / 30 / 40 / 50 | kg         |
| Accuracy class                  | C3                                  |            |
| Rated output                    | $2.0 \pm 0.2$                       | mV/V       |
| Zero output                     | 2.0                                 | % FS       |
| Maximum Division                | 3000                                | nmax       |
| Minimum Division                | $E_{max}/7000$                      | Vmin       |
| Creep deformation               | $\leq \pm 0.0167$                   | %FS/30min  |
| Temp. effect on zero balance    | $\leq \pm 0.020$                    | %FS/10°C   |
| Input resistance                | $409 \pm 6$                         | $\Omega$   |
| Output resistance               | $350 \pm 3$                         | $\Omega$   |
| Insulation resistance @50VDC    | $\geq 5000$                         | M $\Omega$ |
| Excitation, recommended voltage | 5~12                                | V DC       |
| Excitation, maximum voltage     | 18                                  | V DC       |
| Compensated temperature         | -10 to +40                          | °C         |
| Operating temperature           | -30 to + 65                         | °C         |
| Safe overload                   | 150                                 | % FS       |
| Limit overload                  | 300                                 | % FS       |
| Standard cable length           | 1.5                                 | m          |

# Single Point Load Cell

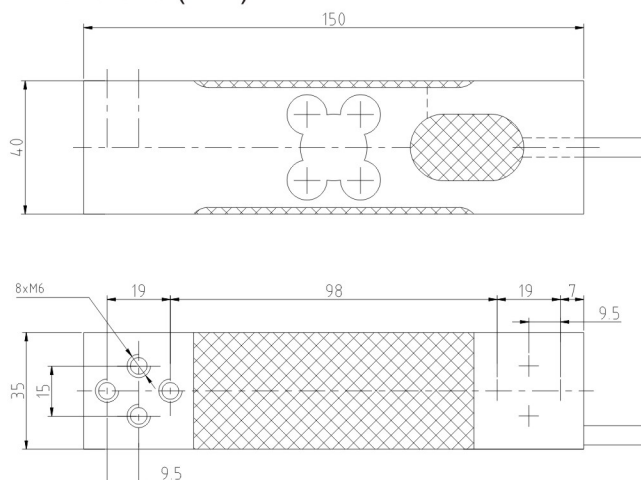
Model: HL6E



## FEATURES

- Capacity: 30kg-500kg
- Material: Aluminium alloy steel
- Max platform size: 400x400mm
- IP rating: IP65

Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

|                                 |                            |            |
|---------------------------------|----------------------------|------------|
| Rated capacity ( $E_{max}$ )    | 60 / 100 / 200 / 300 / 500 | kg         |
| Accuracy class                  | C3                         |            |
| Rated output                    | $2.0 \pm 0.2$              | mV/V       |
| Zero output                     | 2.0                        | % FS       |
| Maximum Division                | 3000                       | nmax       |
| Minimum Division                | $E_{max}/7000$             | Vmin       |
| Creep deformation               | $\leq \pm 0.0167$          | %FS/30min  |
| Temp. effect on zero balance    | $\leq \pm 0.020$           | %FS/10°C   |
| Input resistance                | $406 \pm 6$                | $\Omega$   |
| Output resistance               | $350 \pm 3$                | $\Omega$   |
| Insulation resistance @50VDC    | $\geq 5000$                | M $\Omega$ |
| Excitation, recommended voltage | 5~12                       | V DC       |
| Excitation, maximum voltage     | 18                         | V DC       |
| Compensated temperature         | -10 to +40                 | °C         |
| Operating temperature           | -30 to + 65                | °C         |
| Safe overload                   | 150                        | % FS       |
| Limit overload                  | 300                        | % FS       |
| Standard cable length           | 1.5                        | m          |

# Single Point Load Cell

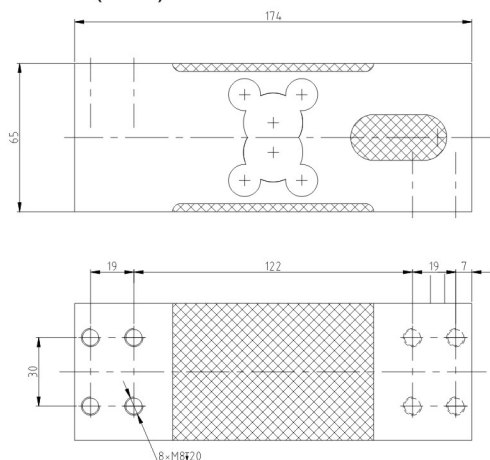
Model: HL6G



## FEATURES

- Capacity: 200kg-750kg
- Material: Aluminium alloy steel
- Max platform size: 600x600mm
- IP rating: IP65

Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

|                                 |                       |            |
|---------------------------------|-----------------------|------------|
| Rated capacity ( $E_{max}$ )    | 200 / 300 / 500 / 750 | kg         |
| Accuracy class                  | C3                    |            |
| Rated output                    | $2.0 \pm 0.2$         | mV/V       |
| Zero output                     | 2.0                   | % FS       |
| Maximum Division                | 3000                  | nmax       |
| Minimum Division                | $E_{max}/7000$        | Vmin       |
| Creep deformation               | $\leq \pm 0.0167$     | %FS/30min  |
| Temp. effect on zero balance    | $\leq \pm 0.020$      | %FS/10°C   |
| Input resistance                | $406 \pm 6$           | $\Omega$   |
| Output resistance               | $350 \pm 3$           | $\Omega$   |
| Insulation resistance @50VDC    | $\geq 5000$           | M $\Omega$ |
| Excitation, recommended voltage | 5~12                  | V DC       |
| Excitation, maximum voltage     | 18                    | V DC       |
| Compensated temperature         | -10 to +40            | °C         |
| Operating temperature           | -30 to + 65           | °C         |
| Safe overload                   | 150                   | % FS       |
| Limit overload                  | 300                   | % FS       |
| Standard cable length           | 2.5                   | m          |



# Single Point Load Cell

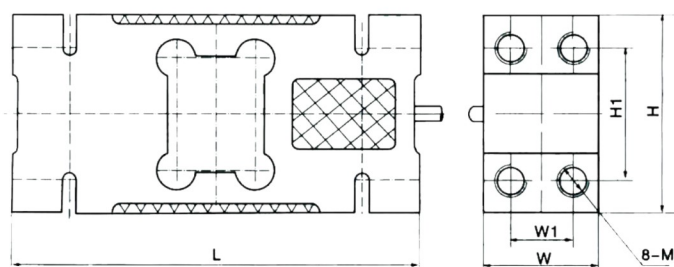
Model: HL6F-D



## FEATURES

- Capacity: 200kg-750kg
- Material: Aluminium alloy steel
- Max platform size: 600x600mm
- IP rating: IP65

Dimensions (mm):



|             | H             | H1           | L             | W            | W1           | M               |
|-------------|---------------|--------------|---------------|--------------|--------------|-----------------|
| 1000~2000kg | 125<br>(4.92) | 95<br>(3.74) | 176<br>(6.93) | 76<br>(2.99) | 46<br>(1.81) | M16-7H 20(0.79) |

Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter             |                   |            |
|---------------------------------|-------------------|------------|
| Rated capacity ( $E_{max}$ )    | 1000 / 2000       | kg         |
| Accuracy class                  | C3                |            |
| Rated output                    | $2.0 \pm 0.2$     | mV/V       |
| Zero output                     | 2.0               | % FS       |
| Maximum Division                | 3000              | nmax       |
| Minimum Division                | $E_{max}/7000$    | Vmin       |
| Creep deformation               | $\leq \pm 0.0167$ | %FS/30min  |
| Temp. effect on zero balance    | $\leq \pm 0.020$  | %FS/10°C   |
| Input resistance                | $406 \pm 6$       | $\Omega$   |
| Output resistance               | $350 \pm 3$       | $\Omega$   |
| Insulation resistance @50VDC    | $\geq 5000$       | M $\Omega$ |
| Excitation, recommended voltage | 5~12              | V DC       |
| Excitation, maximum voltage     | 18                | V DC       |
| Compensated temperature         | -10 to +40        | °C         |
| Operating temperature           | -30 to + 65       | °C         |
| Safe overload                   | 150               | % FS       |
| Limit overload                  | 300               | % FS       |
| Standard cable length           | 2.5               | m          |

# Single Point Load Cell

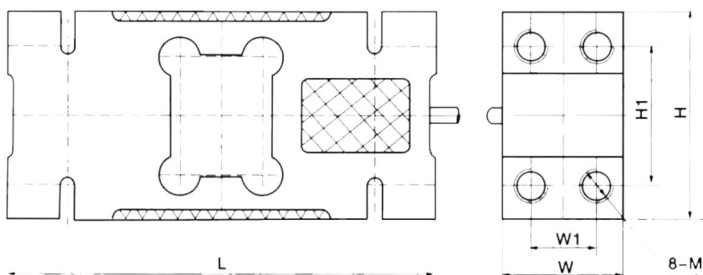
Model: HL6F-Z



## FEATURES

- Capacity: 500kg-1000kg
- Material: Aluminium alloy steel
- Max platform size: 800x800mm
- IP rating: IP65

Dimensions (mm):



|            | H            | H1           | L             | W            | W1           | M               |
|------------|--------------|--------------|---------------|--------------|--------------|-----------------|
| 500~1000kg | 95<br>(3.74) | 70<br>(2.76) | 146<br>(5.75) | 60<br>(2.36) | 36<br>(1.42) | M12-7H 18(0.71) |

Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

|                                 |                   |            |
|---------------------------------|-------------------|------------|
| Rated capacity ( $E_{max}$ )    | 500 / 1000        | kg         |
| Accuracy class                  | C3                |            |
| Rated output                    | $2.0 \pm 0.2$     | mV/V       |
| Zero output                     | 2.0               | % FS       |
| Maximum Division                | 3000              | nmax       |
| Minimum Division                | $E_{max}/7000$    | Vmin       |
| Creep deformation               | $\leq \pm 0.0167$ | %FS/30min  |
| Temp. effect on zero balance    | $\leq \pm 0.020$  | %FS/10°C   |
| Input resistance                | $406 \pm 6$       | $\Omega$   |
| Output resistance               | $350 \pm 3$       | $\Omega$   |
| Insulation resistance @50VDC    | $\geq 5000$       | M $\Omega$ |
| Excitation, recommended voltage | 5~12              | V DC       |
| Excitation, maximum voltage     | 18                | V DC       |
| Compensated temperature         | -10 to +40        | °C         |
| Operating temperature           | -30 to + 65       | °C         |
| Safe overload                   | 150               | % FS       |
| Limit overload                  | 300               | % FS       |
| Standard cable length           | 2.5               | m          |

# Single Point Load Cell

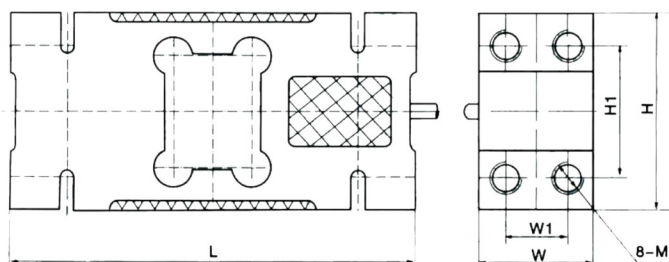
Model: HL6F-D



## FEATURES

- Capacity: 1000kg-2000kg
- Material: Aluminium alloy steel
- Max platform size: 1200x1200mm
- IP rating: IP65

Dimensions (mm):



|             | H             | H1           | L             | W            | W1           | M               |
|-------------|---------------|--------------|---------------|--------------|--------------|-----------------|
| 1000~2000kg | 125<br>(4.92) | 95<br>(3.74) | 176<br>(6.93) | 76<br>(2.99) | 46<br>(1.81) | M16-7H 20(0.79) |

Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter             |                   |            |
|---------------------------------|-------------------|------------|
| Rated capacity ( $E_{max}$ )    | 1000 / 2000       | kg         |
| Accuracy class                  | C3                |            |
| Rated output                    | $2.0 \pm 0.2$     | mV/V       |
| Zero output                     | 2.0               | % FS       |
| Maximum Division                | 3000              | nmax       |
| Minimum Division                | $E_{max}/7000$    | Vmin       |
| Creep deformation               | $\leq \pm 0.0167$ | %FS/30min  |
| Temp. effect on zero balance    | $\leq \pm 0.020$  | %FS/10°C   |
| Input resistance                | $406 \pm 6$       | $\Omega$   |
| Output resistance               | $350 \pm 3$       | $\Omega$   |
| Insulation resistance @50VDC    | $\geq 5000$       | M $\Omega$ |
| Excitation, recommended voltage | 5~12              | V DC       |
| Excitation, maximum voltage     | 18                | V DC       |
| Compensated temperature         | -10 to +40        | °C         |
| Operating temperature           | -30 to + 65       | °C         |
| Safe overload                   | 150               | % FS       |
| Limit overload                  | 300               | % FS       |
| Standard cable length           | 2.5               | m          |

# Shear Beam Load Cell

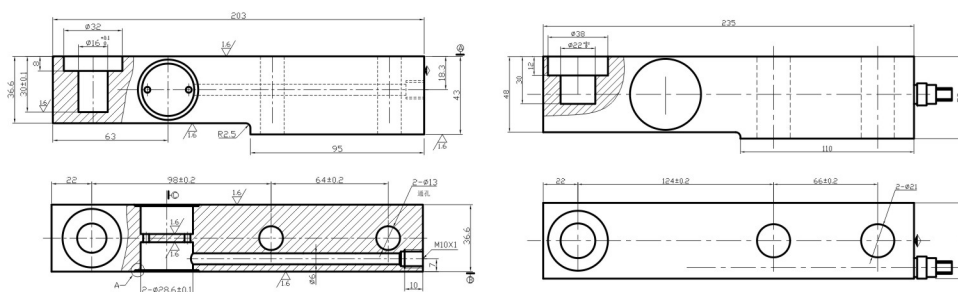
Model: HSB



## FEATURES

- Capacity: 3000kg-8000kg
- Material: Alloy steel
- Max platform size: 1200x1200mm
- IP rating: IP65
- Suitable for belt scale, hopper scale, blending system

Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter             |                   |            |
|---------------------------------|-------------------|------------|
| Rated capacity ( $E_{max}$ )    | 3000 / 8000       | kg         |
| Accuracy class                  | C3                |            |
| Rated output                    | $2.0 \pm 0.2$     | mV/V       |
| Zero output                     | 2.0               | % FS       |
| Maximum Division                | 3000              | nmax       |
| Minimum Division                | $E_{max}/7000$    | Vmin       |
| Creep deformation               | $\leq \pm 0.0167$ | %FS/30min  |
| Temp. effect on zero balance    | $\leq \pm 0.020$  | %FS/10°C   |
| Input resistance                | $406 \pm 6$       | $\Omega$   |
| Output resistance               | $350 \pm 3$       | $\Omega$   |
| Insulation resistance @50VDC    | $\geq 5000$       | M $\Omega$ |
| Excitation, recommended voltage | 5~12              | V DC       |
| Excitation, maximum voltage     | 18                | V DC       |
| Compensated temperature         | -10 to +40        | °C         |
| Operating temperature           | -30 to + 65       | °C         |
| Safe overload                   | 150               | % FS       |
| Limit overload                  | 300               | % FS       |
| Standard cable length           | 2.5               | m          |



## Bending beam load Cell

Model: HBW

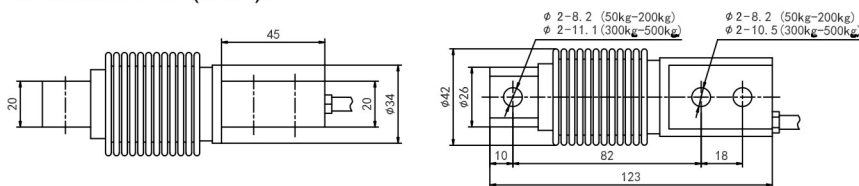


## FEATURES

- Capacity: 5kg-500kg
- Material: Stainless steel
- Protection type: Hermetically sealed
- IP rating: IP68
- Suitable for belt scale, hopper scale, blending system



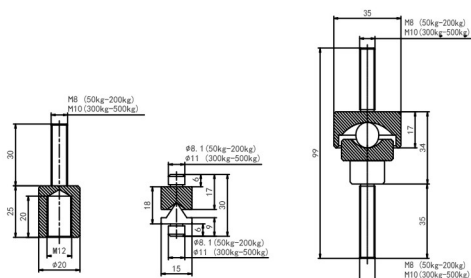
Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

### HBW Accessories:



| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

## Technical Parameter

|                                 |                                               |                                  |
|---------------------------------|-----------------------------------------------|----------------------------------|
| Rated capacity ( $E_{\max}$ )   | 5 / 10 / 20 / 30 / 50 / 100 / 200 / 300 / 500 | kg                               |
| Accuracy class                  | C3                                            |                                  |
| Rated output                    | $2.0 \pm 0.002$                               | mV/V                             |
| Zero output                     | 1.0                                           | % FS                             |
| Nonlinear                       | $\pm 0.02$                                    | % FS                             |
| Creep deformation               | $\pm 0.02$                                    | %FS/30min                        |
| Hysteresis error                | $\pm 0.0167$                                  | % of $E_{\max}$                  |
| Temp. effect on zero balance    | $\pm 0.002$                                   | % of $E_{\max}/^{\circ}\text{C}$ |
| Input resistance                | $400 \pm 5$                                   | $\Omega$                         |
| Output resistance               | $350 \pm 2$                                   | $\Omega$                         |
| Insulation resistance @50VDC    | $\geq 5000$                                   | $\text{M}\Omega$                 |
| Excitation, recommended voltage | 5~15                                          | V DC                             |
| Excitation, maximum voltage     | 20                                            | V DC                             |
| Compensated temperature         | -10 to +40                                    | $^{\circ}\text{C}$               |
| Operating temperature           | -20 to + 65                                   | $^{\circ}\text{C}$               |
| Safe overload                   | 150                                           | % FS                             |
| Limit overload                  | 300                                           | % FS                             |
| Standard cable length           | 3.0                                           | m                                |

# Shear beam load cell

Model: HQS

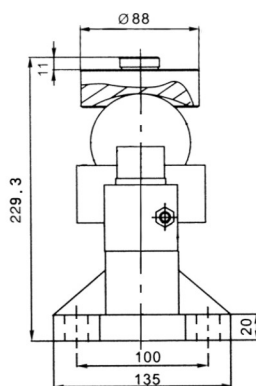
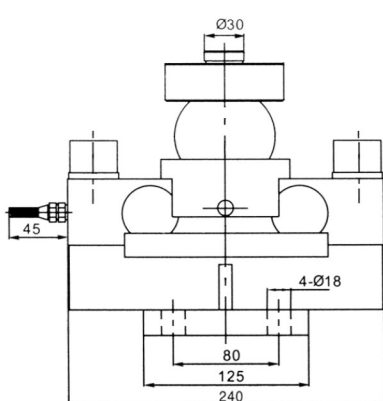


## FEATURES

- Capacity: 10t-40t
- Material: Alloy steel
- Surface treatment: Nickle plated
- IP rating: IP68
- Suitable for belt scale, hopper scale, blending system



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter                          |                  |                  |                   |                          |
|----------------------------------------------|------------------|------------------|-------------------|--------------------------|
| Rated capacity ( $E_{max}$ )                 | 20 / 30 / 40     |                  |                   | kg                       |
| Accuracy class                               | C1               | C2               | C3                |                          |
| Maximum number of LC intervals ( $n_{max}$ ) | 1000             | 2000             | 3000              |                          |
| Min. LC verification interval ( $v_{min}$ )  | $E_{max} / 3000$ | $E_{max} / 5000$ | $E_{max} / 10000$ | kg                       |
| Rated output                                 | $2.0 \pm 0.002$  |                  |                   | mV/V                     |
| Zero balance                                 | $\pm 1.5$        |                  |                   | % of $E_{max}$           |
| Creep deformation                            | $\pm 0.038$      | $\pm 0.024$      | $\pm 0.016$       | %FS/30min                |
| Temp. effect on zero balance                 | $\pm 0.047$      | $\pm 0.023$      | $\pm 0.015$       | % of $E_{max}/^{\circ}C$ |
| Composition error                            | $\pm 0.050$      | $\pm 0.030$      | $\pm 0.020$       | %FS                      |
| Input resistance                             | $700 \pm 7$      |                  |                   | $\Omega$                 |
| Output resistance                            | $700 \pm 7$      |                  |                   | $\Omega$                 |
| Insulation resistance @50VDC                 | $\geq 5000$      |                  |                   | M $\Omega$               |
| Excitation, recommended voltage              | 5~12             |                  |                   | V DC                     |
| Excitation, maximum voltage                  | 18               |                  |                   | V DC                     |
| Compensated temperature                      | -10 to +40       |                  |                   | $^{\circ}C$              |
| Operating temperature                        | -30 to +70       |                  |                   | $^{\circ}C$              |
| Safe overload                                | 150              |                  |                   | % of $E_{max}$           |
| Ultimate overload                            | 300              |                  |                   | % of $E_{max}$           |
| Standard cable length                        | 16.0             |                  |                   | m                        |

# Compression Load Cell

Model: ZS150

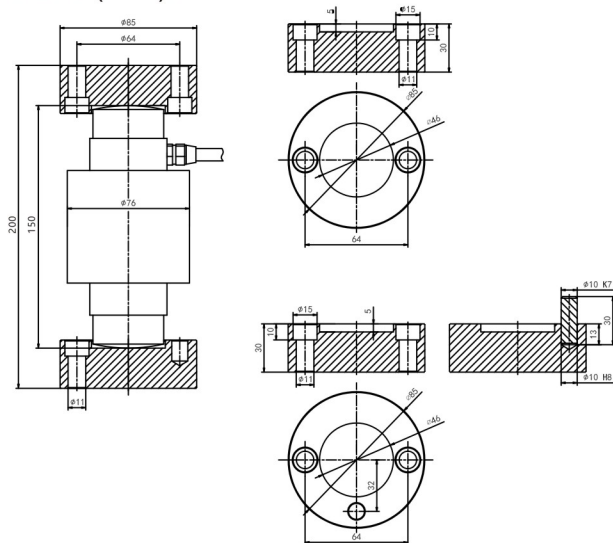


## FEATURES

- Capacity: 10t-50t
- Material: Alloy steel or Stainless steel
- Protection type: Hermetically sealed
- IP rating: IP68
- Suitable for belt scale, hopper scale, blending system



Dimensions (mm):



Wiring:

| Color       | Function    |
|-------------|-------------|
| Red         | +Excitation |
| Green       | +Signal     |
| Black       | -Excitation |
| White       | -Signal     |
| Transparent | Shield      |

| Color       | Function    |
|-------------|-------------|
| Green       | +Excitation |
| Blue        | +Sense      |
| White       | +Signal     |
| Black       | -Excitation |
| Grey        | -Sense      |
| Red         | -Signal     |
| Transparent | Shield      |

| Technical Parameter             |                           |                    |
|---------------------------------|---------------------------|--------------------|
| Rated capacity ( $E_{max}$ )    | 10 / 20 / 30 / 40 / 50    | kg                 |
| Accuracy class                  | C3                        |                    |
| Rated output                    | $2.0 \pm 0.002$           | mV/V               |
| Zero output                     | 1.0                       | % FS               |
| Nonlinear                       | $\pm 0.02$                | % FS               |
| Non-repetition                  | $\pm 0.01$                | % FS               |
| Hysteresis error                | $\pm 0.02$                | % of $E_{max}$     |
| Creep deformation               | $\pm 0.02$                | %FS/30min          |
| Input resistance                | $700 \pm 10 / 385 \pm 10$ | $\Omega$           |
| Output resistance               | $705 \pm 5 / 350 \pm 3$   | $\Omega$           |
| Insulation resistance @50VDC    | $\geq 5000$               | M $\Omega$         |
| Excitation, recommended voltage | 5~15                      | V DC               |
| Excitation, maximum voltage     | 20                        | V DC               |
| Compensated temperature         | -10 to +40                | $^{\circ}\text{C}$ |
| Operating temperature           | -20 to + 65               | $^{\circ}\text{C}$ |
| Safe overload                   | 150                       | % FS               |
| Limit overload                  | 300                       | % FS               |
| Standard cable length           | 16.0                      | m                  |