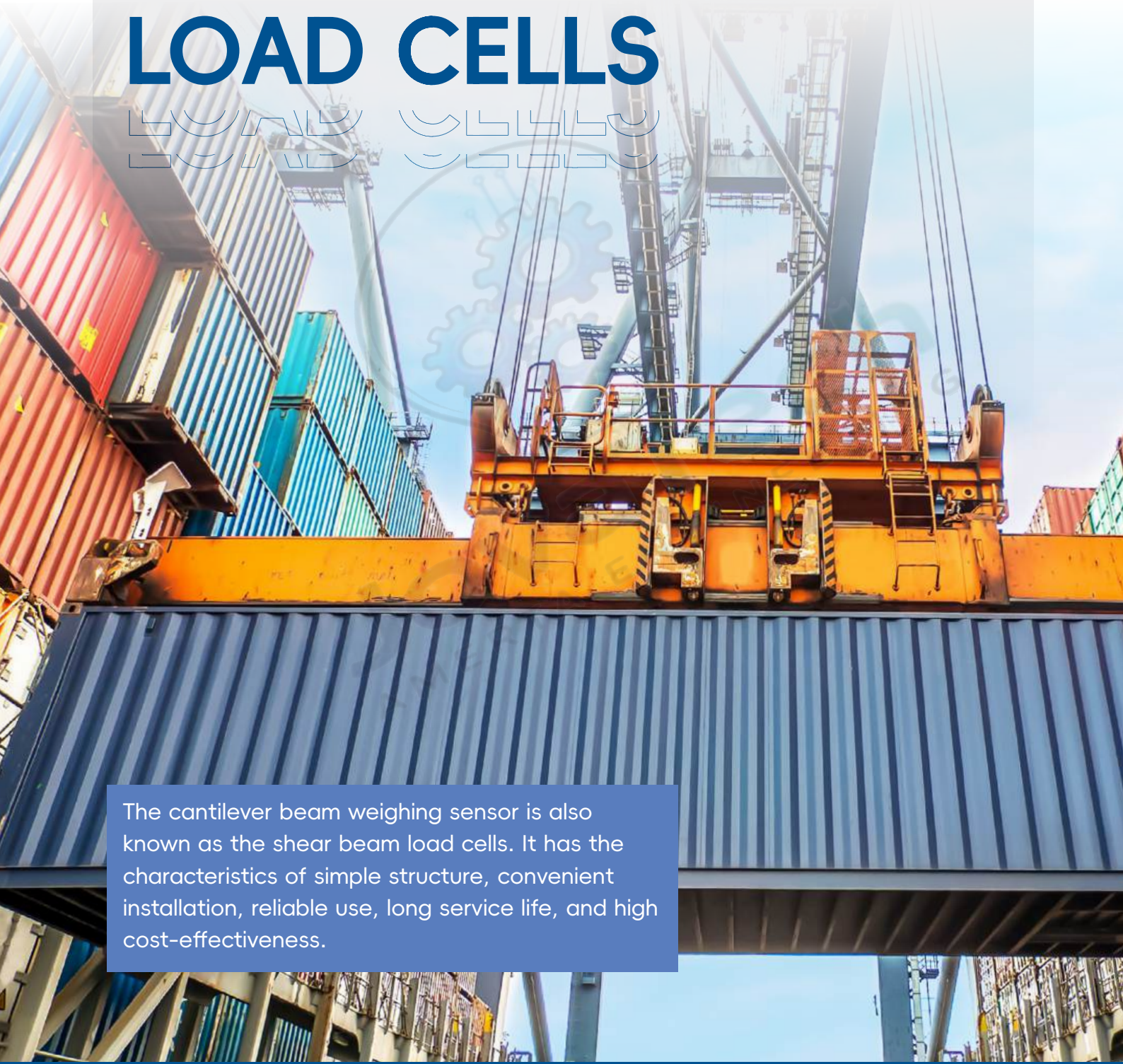
# 03

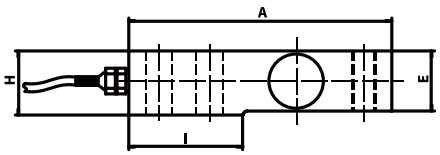
# SHEAR BEAM LOAD CELLS

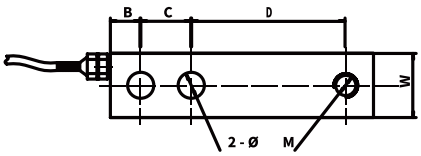


The cantilever beam weighing sensor is also known as the shear beam load cells. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

# DYX-301 Shear beam load cells






## Product Reviews

### Characteristic

The cantilever beam weighing sensor is also known as the shear beam weighing sensor. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

### Application Area

- Automobile scale and main laying axle load gauge in highway weighing equipment
- Small scale and platform scales, steel cylinder scales, and other fields in industrial scales
- Generally, three or four sensors are used as a group

### Parameters Table

| | | | |
|---|---|---|---|
| Range | 0-10T | Material quality | Alloy steel / stainless steel |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.03%F.S. | Service voltage | 5-15V |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.03%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

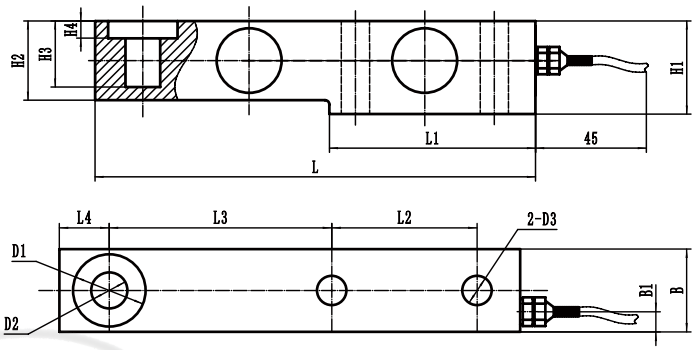
| Range | ΦA | B | C | D | E | W | H | M | 2-Φ | I |
|---|---|---|---|---|---|---|---|---|---|---|
| 50kg-2T | 130 | 15 | 25 | 76 | 30 | 32 | 32 | M12X1.75 | Φ13 | 56 |
| 2.5-5T | 171 | 19 | 38 | 96 | 38 | 38 | 43 | M18X1.5 | Φ20 | 80 |
| 6-10T | 225.6 | 25.4 | 50.8 | 122.9 | 50.8 | 50.8 | 56 | M24X2 | Φ26.4 | 105 |



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# DYX-302 Shear beam load cells






## Product Reviews

### Characteristic

The cantilever beam weighing sensor is also known as the shear beam weighing sensor. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

### Application Area

- Automobile scale and main laying axle load gauge in highway weighing equipment
- Small scale and platform scales, steel cylinder scales, and other fields in industrial scales
- Generally, three or four sensors are used as a group

| Parameters Table | | | |
|---|---|---|---|
| Range | 0.5-25T | Material quality | Alloy steel / stainless steel |
| Output sensitivity | 2.0±0.02mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.03%F.S. | Service voltage | 5-10V |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.02%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.02%F.S. | Extreme overload | 300% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x5m |
| Xero point temperature drift | 0.03%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | Selectable |

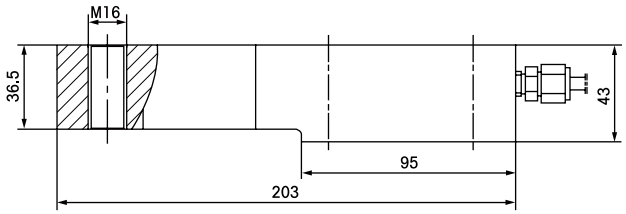
| Range (T) | L | L1 | L2 | L3 | L4 | H1 | H2/B | B1 | H3 | H4 | D1 | D2 | D3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.5-2 | 203 | 95 | 64 | 98 | 22 | 43 | 36.6 | 7 | 30.5 | 8 | ϕ32 | ϕ16 | ϕ13 |
| 3 | 203 | 95 | 64 | 98 | 22 | 43 | 36.6 | 7 | 30.5 | 8 | ϕ32 | ϕ16 | ϕ15 |
| 5-7.5-8 | 235 | 110 | 66 | 124 | 22 | 52 | 48 | 7 | 30 | 12 | ϕ38 | ϕ22 | ϕ21 |
| 10 | 279 | 133 | 82 | 140 | 32 | 67 | 60 | 8.5 | 20 | 8.5 | ϕ48 | ϕ32 | ϕ28 |
| 15-25 | 318 | 153 | 89 | 159 | 38 | 82.5 | 70 | 9.5 | 24 | 9.5 | ϕ54 | ϕ38 | ϕ34 |



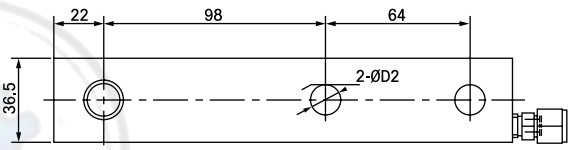
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# DYSBS Shear beam load cells








| Parameters Table | | | |
|---|---|---|---|
| Range | 0-3T | Material quality | Alloy steel / stainless steel |
| Output sensitivity | 2.0±0.02mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.03%F.S. | Service voltage | 5-15V |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.02%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.02%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.03%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | Selectable |

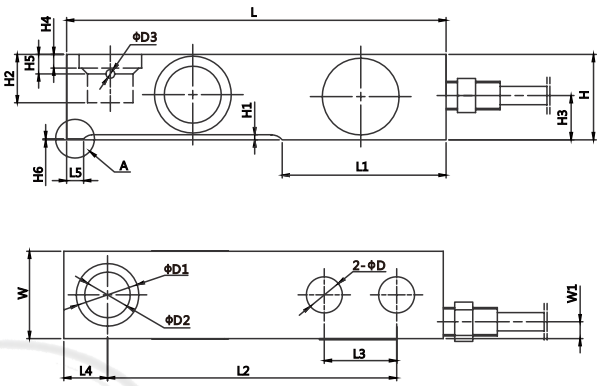
| Range (T) | D2 |
|---|---|
| 0.3-2 | 13 |
| 3 | 15 |



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# DYHLJ Shear beam load cells






## Product Reviews

### Characteristic

The cantilever beam weighing sensor is also known as the shear beam weighing sensor. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

### Application Area

- Automobile scale and main laying axle load gauge in highway weighing equipment
- Small scale and platform scales, steel cylinder scales, and other fields in industrial scales
- Generally, three or four sensors are used as a group

### Parameters Table

| | | | |
|---|---|---|---|
| Range | 0-5T | Material quality | Alloy Steel / Stainless Steel |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.03%F.S. | Service voltage | 5-15V |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.02%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | Selectable |

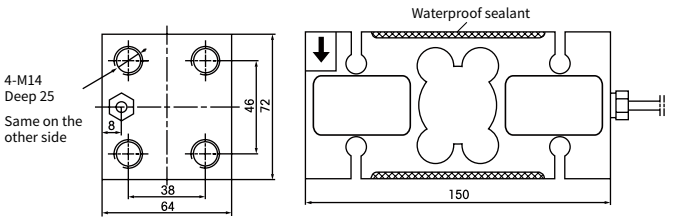
| Range (T) | D | D1 | D2 | D3 | H | H1 | H2 | H3 | H4 | H5 | H6 | L | L1 | L2 | L3 | L4 | L5 | W | W1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.25 /0.5/1 | 12.7 | 22 | 15.9 | 3.1 | 30 | 1.9 | 17 | 15.9 | 4.7 | 7.7 | 0.38 | 133.4 | 57.6 | 101.6 | 25.4 | 15.4 | 6.4 | 30.7 | 5.2 |
| 2 | 12.7 | 22 | 15.9 | 3.1 | 36.6 | 2.8 | 23 | 19.6 | 9.5 | 11.7 | 0.82 | 136.7 | 57.9 | 101.6 | 25.4 | 18. 4 | 6.4 | 36.8 | 6 |
| 3 | 15 | 22 | 15.9 | - | 36.6 | 1.2 | 23 | 19.6 | 9.5 | 11.7 | - | 139.7 | 57.9 | 104.6 | 25.4 | 18.4 | - | 39 | 6 |
| 5 | 19 | 34.9 | 22.2 | 3.1 | 43 | 2 | 29.4 | 22.5 | 11 | 11.7 | - | 171.5 | 73.8 | 133.3 | 38.1 | 21.5 | - | 42.9 | 6 |

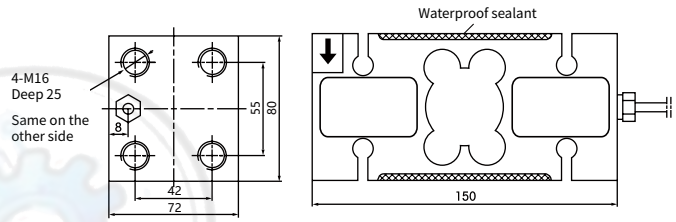


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# DYX-305 Shear beam load cells






## Product Reviews

### Characteristic

This sensor is a parallel beam weighing sensor, which perfectly meets the requirements of accuracy, small shape variable, meets the requirements of dangerous area, calibration method and environmental conditions, convenient and fast installation.

### Application Area

- It is commonly used for mechanical arm load monitoring, installed between the mechanical arm and the fixture, to detect the weight of the measured object.

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-2000kg | Material quality | Alloy Steel |
| Output sensitivity | 2.0±0.02mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.03%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-60℃ |
| Repeatability | 0.03%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ф5x3m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

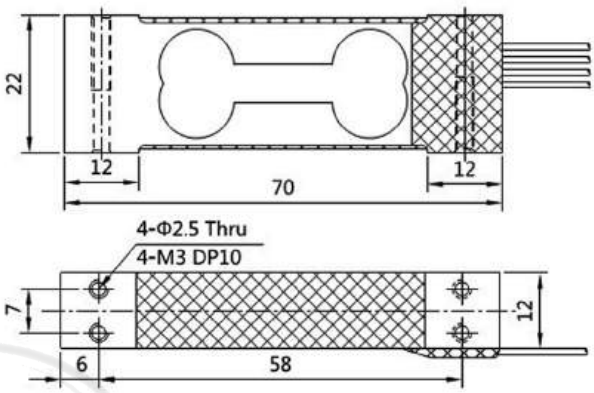
| Size | Range (kg) |
|---|---|
| 4-M14 | 150 250 500 1000 |
| 4-M16 | 2000 |



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# DYX-306A Shear beam load cells






## Product Reviews

### Characteristic

The cantilever beam weighing sensor is also known as the shear beam weighing sensor. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

### Application Area

- Automobile scale and main laying axle load gauge in highway weighing equipment.
- Small scale and platform scales, steel cylinder scales, and other fields in industrial scales.
- Generally, three or four sensors are used as a group.

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-2kg | Material quality | Alufer |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.02%F.S. | Service voltage | 5-15V |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.02%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.03%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

| Range (kg) | | | |
|---|---|---|---|
| 0.3 | 0.6 | 1 | 2 |

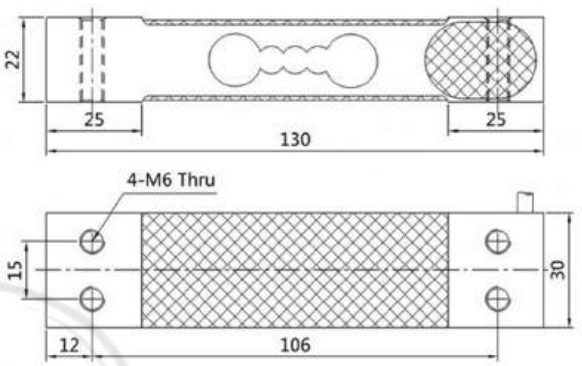


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# DYX-306B Shear beam load cells








| Parameters Table | | | |
|---|---|---|---|
| Range | 0-40kg | Material quality | Alufer |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.02%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.02%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.03%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

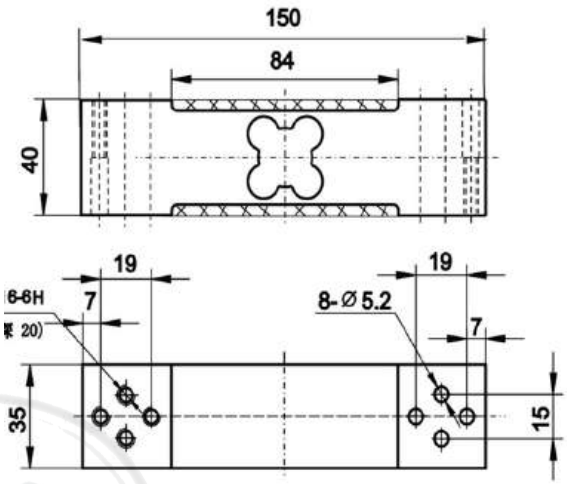
| Range (kg) | | | | |
|---|---|---|---|---|
| 3 | 6 | 10 | 20 | 40 |



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# DYX-306C Shear beam load cells






## Product Reviews

### Characteristic

The cantilever beam weighing sensor is also known as the shear beam weighing sensor. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

### Application Area

- Automobile scale and main laying axle load gauge in highway weighing equipment0.
- Small scale and platform scales, steel cylinder scales, and other fields in industrial scales.
- Generally, three or four sensors are used as a group.

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-350kg | Material quality | Alufer |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.02%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.02%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.03%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

| Range (kg) | | | |
|---|---|---|---|
| 60 | 100 | 200 | 350 |

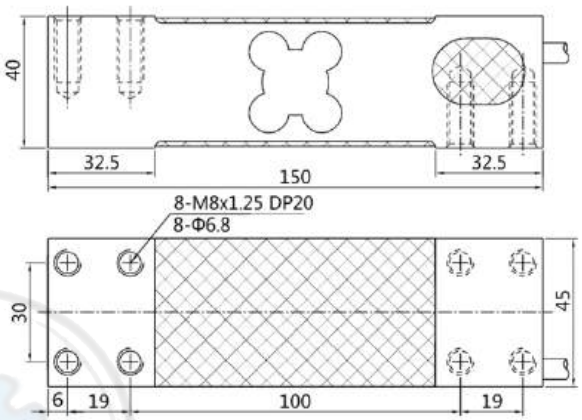


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# DYX-306D Shear beam load cells








| Parameters Table | | | |
|---|---|---|---|
| Range | 0-500kg | Material quality | Alufer |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.02%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.02%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.03%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

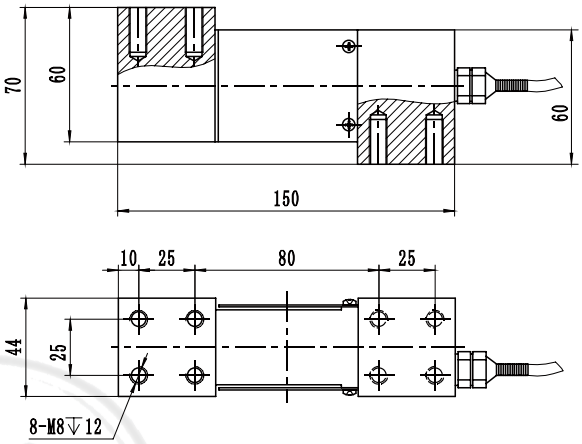
| Range (kg) | | | | |
|---|---|---|---|---|
| 60 | 100 | 200 | 350 | 500 |



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# DYX-307 Shear beam load cells






## Product Reviews

### Characteristic

The cantilever beam weighing sensor is also known as the shear beam weighing sensor. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

### Application Area

- Automobile scale and main laying axle load gauge in highway weighing equipment
- Small scale and platform scales, steel cylinder scales, and other fields in industrial scales
- Generally, three or four sensors are used as a group

| Parameters Table | | | |
|---|---|---|---|
| Range | 50-1000kg | Material quality | Alloy Steel |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.03%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-60℃ |
| Repeatability | 0.03%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

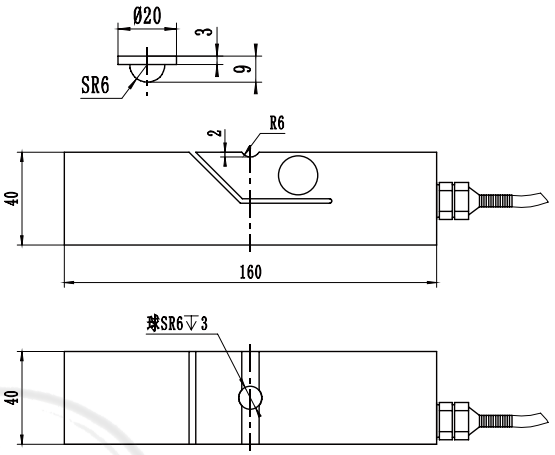
| Range (kg) | | | | |
|---|---|---|---|---|
| 50 | 100 | 200 | 500 | 1000 |



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# DYX-309 Shear beam load cells






## Product Reviews

### Characteristic

The sensor adopts shear beam structure, low shape, lateral force resistance, anti-interference ability, linear and long-term stability.

### Application Area

- This sensor is used in the cement antifolding testing machine.Cement folding testing machine is a device for measuring the bending strength of cement, concrete, and other materials. It is usually composed of a support frame and a pressure device. Pressure can be applied at different angles to measure the bending strength of the material.

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-10kN | Material quality | Alloy Steel |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.05%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.05%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.05%F.S. | Safe overload | 120% |
| Creep (30 min) | 0.05%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.05%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

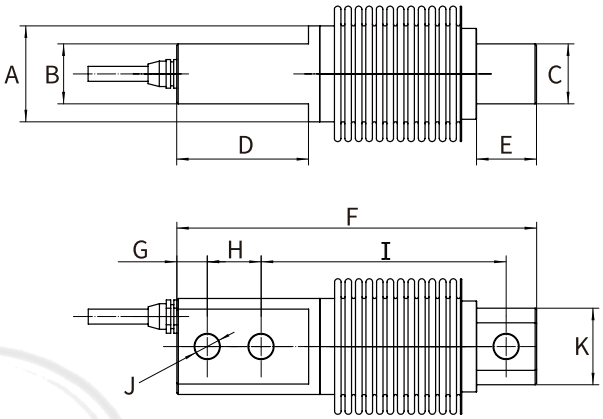
| Range (kN) | |
|---|---|
| 6 | 10 |



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# DYBW-106 Shear beam load cells






## Product Reviews

### Characteristic

The sensor uses metal bellows laser welding, so it is also called bellows type sensor. It can withstand two forms of pull and pressure, anti-load, fatigue resistance to strong ability, in order to deal with the harsh working environment using stainless steel material with bellows welding sealing.

### Application Area

- Applied to both dynamic and static weighing equipment
- Common dynamic weighing equipment: weighing coal feeder, weighing feeder, electronic belt scale, screw scale, electronic measuring belt scale, single roller belt scale, double roller belt scale, spiral weighing feeder, batching scale and other measurement and control equipment
- Common static weighing equipment: automobile scale, packaging scale, hopper scale, single machine weighing and other weighing equipment.

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-1000kg | Material quality | Stainless Steel |
| Output sensitivity | 2.0/3.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.03%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-60°C |
| Repeatability | 0.03%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.05%F.S./10°C | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.05%F.S./10°C | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

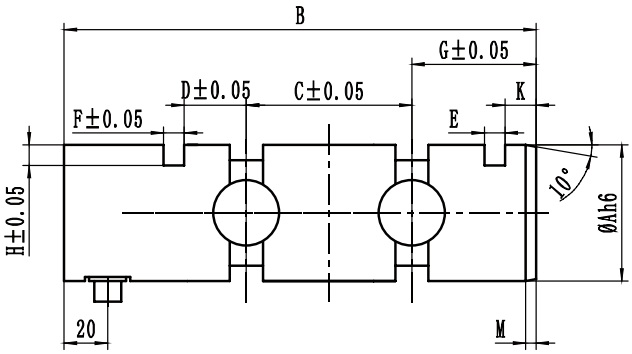
| Range (kg) | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20~200 | Φ32 | 20 | 20 | 44 | 20 | 120 | 10.15 | 18 | 82 | 3-Φ8.3 Penetrate | Φ25.5 |
| 300~1000 | Φ32 | 20 | 20 | 44 | 20 | 120 | 10.15 | 18 | 82 | 3-Φ10.3 Penetrate | Φ25.5 |



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# DYZX-001 Shear beam load cells






## Product Reviews

### Characteristic

Elastic element is a whole circular axis, compact structure, simple geometry, easy to process a high size and shape accuracy. The shaft section has strong torsion and bending resistance, and the stress at the neutral shaft of the shaft pin is maximum; when the shaft pin bears vertical and horizontal bending, the section with zero bending moment is in the same section; it is easy to assemble and use. Accept customization, you can customize different solutions according to the different needs of customers.

### Application Area

- The built-in transformer delivery board can directly change the force on the shaft into 4-20 mA or a variety of other industrial signals, and adapt to the needs of different working conditions.
- Products are widely used in ships, cranes, electronic weighing, agricultural irrigation machinery, load-bearing vehicles and other equipment, and for different requirements of the pin load measuring products.
- A shaft is a special weighing sensor, or the weighing sensor itself is an integral carrier. The axle pin weighing sensor used in the electronic lifting scale and the driving electronic scale is the typical representative of this structure.

### Parameters Table

| | | | |
|---|---|---|---|
| Range | 0-100T | Material quality | Alloy Steel |
| Output sensitivity | 1.0±0.05mV/V | Impedance | 700Ω±5Ω |
| Zero point output | ±2%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.5%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.5%F.S. | Operating temperature range | -20-80℃ |
| Repeatability | 0.5%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.5%F.S. | Extreme overload | 300% |
| Temperature sensitivity drift | 0.05%F.S./10℃ | Cable line specifications | Φ5x3m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

| Range (T) | A | B | C | D | E | F | G | H | K | M |
|---|---|---|---|---|---|---|---|---|---|---|
| 2/3/5 | 50 | 180 | 66 | 27 | 4.5 | 6.5 | 32 | 7 | 9 | 3 |
| 7/10 | 60 | 190 | 96 | 14 | 10 | 9 | 33 | 9 | 9 | 5 |
| 10/15 | 65 | 210 | 116 | 14 | 10 | 9 | 32 | 9 | 8 | 5 |
| 20/30 | 80 | 225 | 109 | 20 | 12 | 11 | 40 | 10 | 8 | 6 |
| 40/50/100 | 120 | 2 75 | 153 | 25 | 14 | 13 | 51 | 15 | 12 | 6 |

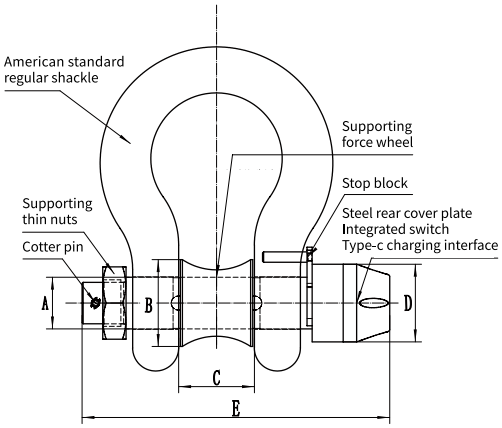


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# DYZX-002 Shear beam load cells






## Product Reviews

### Characteristic

High precision shaft pin sensor, partial load resistance, distortion resistance, is the bearing, pulley and other components of radial load or wire rope tension special sensor, mainly to replace the balance pulley, pulley shaft or other forms of pin shaft installed in the structure of radial force measurement, can play the function of replacing the original shaft, and can play the role of weighing load, thus simplify the whole weighing system.

### Application Area

- Lifting machinery such as port container lifting, wharf, transmission, tower crane, rack construction elevator, hoist, etc
- Strong resistance to partial load and fatigue resistance

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-150T | Material quality | Alloy Steel |
| Output sensitivity | 2.0/3.0±0.05mV/V | Impedance | 700Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.1%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.03%F.S. | Operating temperature range | -20-60℃ |
| Repeatability | 0.1%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.03%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.05%F.S./10℃ | Wireless Transmission Distance | 200m (No Occlusion) |
| Xero point temperature drift | 0.05%F.S./10℃ | Duration Of Flight | 6 Hours |
| Response frequency | 10kHz | Teds | |

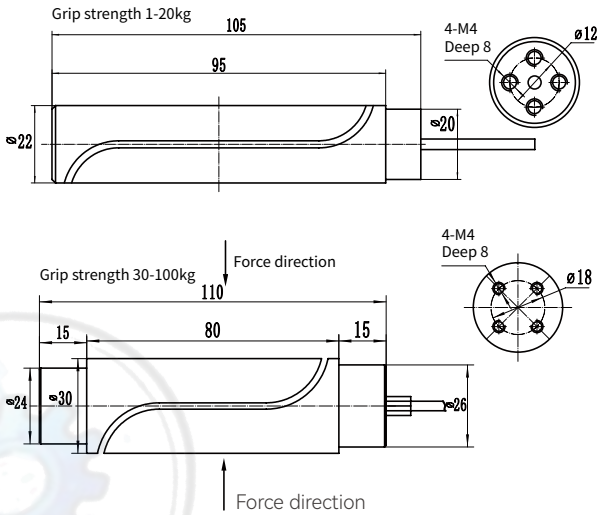
| Size | Range (T) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3.25 | 4.75 | 6.5 | 8.5 | 9.5 | 12 | 13.5 | 17 | 25 | 35 | 55 | 85 | 120 | 150 |
| A | ϕ16 | ϕ19.1 | ϕ22.4 | ϕ25.4 | ϕ28.7 | ϕ31.8 | ϕ35.1 | ϕ38.1 | ϕ41.4 | ϕ50.8 | ϕ57.2 | ϕ70 | ϕ83.8 | ϕ95.5 | ϕ108.2 |
| B | ϕ25 | ϕ35 | ϕ35 | ϕ38 | ϕ48 | ϕ58 | ϕ64 | ϕ66 | ϕ75 | ϕ85 | ϕ95 | ϕ115 | ϕ150 | ϕ170 | ϕ190 |
| C | 20.6 | 26.9 | 31.8 | 36.6 | 42.9 | 46 | 51.6 | 57.2 | 60.5 | 73.2 | 82.6 | 104.9 | 127 | 133.4 | 139.7 |
| D | ϕ64 | ϕ64 | ϕ64 | ϕ64 | ϕ64 | ϕ64 | ϕ64 | ϕ75 | ϕ75 | ϕ75 | ϕ100 | ϕ100 | ϕ140 | ϕ150 | ϕ150 |
| E | 125 | 140 | 157 | 168 | 197 | 205 | 209 | 240 | 260 | 300 | 325 | 380 | 520 | 580 | 600 |



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# DYWL-001 Shear beam load cells






## Product Reviews

### Characteristic

Grip strength sensor is a kind of sensor used to measure the hand grip strength, shear beam structure, strain area in the middle of the sensor position, simple structure and high reliability. Using aluminum alloy material, light weight, high strength, moderate overall size, can be customized to different shapes.

### Application Area

- Medical rehabilitation
- Movement training
- Biomechanics and other fields

| Parameters Table | | | |
|---|---|---|---|
| Range | 10-100N | Material quality | Alufer |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350±20Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.2%F.S. | Service voltage | 5-15V |
| Hysteresis | 0.2%F.S. | Operating temperature range | -20-60°C |
| Repeatability | 0.2%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.2%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.3%F.S./10°C | Cable line specifications | ф3x3m |
| Xero point temperature drift | 0.3%F.S./10°C | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

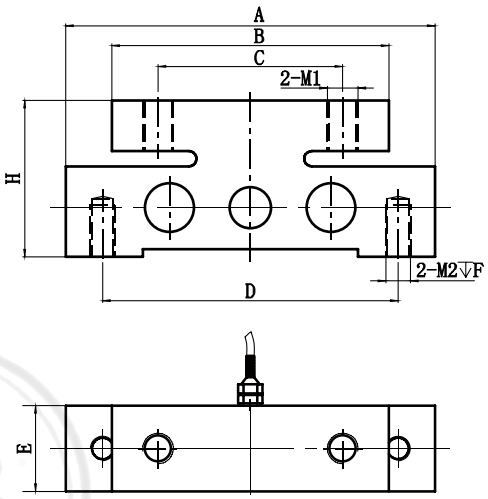
| Range (N) | | | | |
|---|---|---|---|---|
| 10 | 20 | 30 | 50 | 100 |



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# DYQ-101 Shear beam load cells






## Product Reviews

### Characteristic

It is not sensitive to the change of loading point, good anti-load performance, good inherent linearity, convenient installation, the weighing sensor is not fixed, and the center of gravity is high. It is recommended to choose the wheel spoke or column structure sensor for large scale amount.

### Application Area

- Truck Scale
- Rail Weighbridge
- Axis Weight Scale
- On The Ground Heng
- Storage Scale

| Parameters Table | | | |
|---|---|---|---|
| Range | 1-30T | Material quality | Alloy Steel |
| Output sensitivity | 1.0±0.05mV/V | Impedance | 700Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.2%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.2%F.S. | Operating temperature range | -20-60℃ |
| Repeatability | 0.1F.S. | Safe overload | 150% |
| Creep (30 min) | 0.1%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.03%F.S./10℃ | Cable line specifications | ϕ5x5m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

| Range (T) | A | B | C | D | E | H | M1 | M2 | F |
|---|---|---|---|---|---|---|---|---|---|
| 1-5 | 220 | 140 | 110 | 186 | 45 | 85 | M16 | M12 | 20 |
| 10-20 | 240 | 180 | 120 | 192 | 50 | 93 | M20 | M16 | 30 |
| 30 | 240 | 180 | 120 | 192 | 56 | 102 | M20 | M16 | 30 |



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# DYBH-102 Wireless handheld indicator





- shackle
- Plate ring wireless transmitter
- D.R920WL Handheld instrument
- Double-ended Type-C data transmission line
- Handheld antenna
- Type-C Power supply data cable
- Includes 18650 rechargeable battery

## Product Reviews

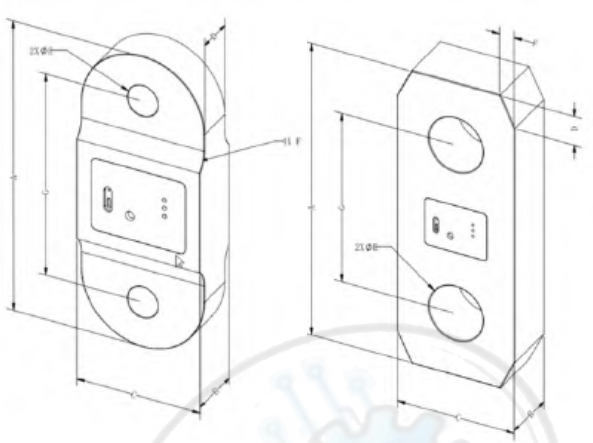
### High-speed and stable data transmission for distance of 200m

Wireless transmission real-time data for 200m, if the site is completely unshielded and the transmission speed is set to low speed (within 3Hz), actually it can be up to 800m.



# DYBH-103 Wireless handheld indicator dynamometer





## Product Reviews

### Characteristic

Using 3200 mAh lithium battery for power supply, the system works for about 20 hours under 3Hz communication conditions, and the charging time is less than 6 hours.
The sampling rate was 80Hz, with sampling accuracy above 0.1% and sampling linearly over 0.1%.
The wireless communication distance in the open area is 100m.
It works normally from-25 to 50°C .
Overall protection rating is IP65.

| Parameters Table | | | |
|---|---|---|---|
| Range | 1-500T | Material quality | Alloy Steel |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.3%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.3%F.S. | Operating temperature range | -20-60°C |
| Repeatability | 0.1F.S. | Safe overload | 150% |
| Creep (30 min) | 0.1%F.S. | Extreme overload | 300% |
| Temperature sensitivity drift | 0.05%F.S./10°C | Wireless Transmission Distance | 200m（No shelter） |
| Xero point temperature drift | 0.05%F.S./10°C | Duration Of Flight | 6 Hours |
| Response frequency | 10kHz | Teds | |

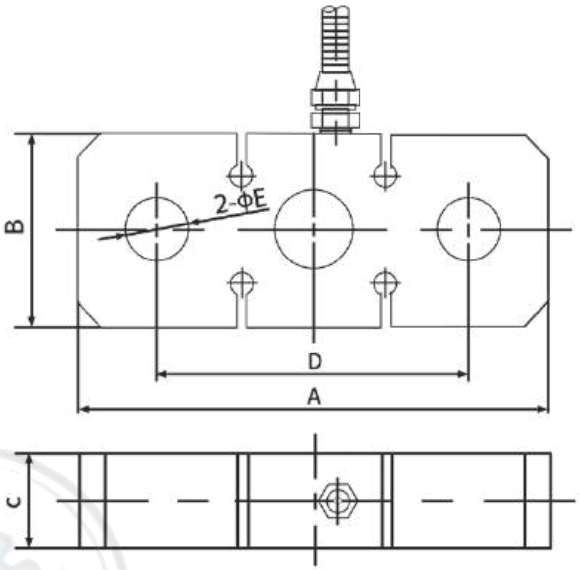
| Range (T) | ΦE | A | B | C | G | D | F | Uncharge (US Crosby) |
|---|---|---|---|---|---|---|---|---|
| 1T | 20 | 210 | 36 | 100 | 20 | R15 | 155 | G213-3.25T |
| 2.5T | 20 | 210 | 36 | 100 | 20 | R15 | 155 | G213-3.25T |
| 5T | 27 | 260 | 50 | 110 | 35 | R20 | 180 | G213-6.5T |
| 12T | 36 | 260 | 51 | 113 | 40 | 20 | 158 | G213-12T |
| 25T | 53 | 340 | 60 | 125 | 40 | 20 | 215 | G213-25T |
| 35T | 60 | 370 | 70 | 140 | 40 | 20 | 225 | G213-35T |
| 50T | 73 | 400 | 75 | 160 | 40 | 20 | 230 | G209-55T |
| 75T | 73 | 440 | 80 | 180 | 60 | 40 | 260 | G2140-85T |
| 100T | 99 | 540 | 100 | 220 | 60 | 40 | 320 | G2130-120T |
| 200T | 125 | 650 | 140 | 300 | 80 | 60 | 350 | G2140-200T |
| 300T | 156 | 750 | 150 | 350 | 100 | 80 | 350 | G2140-300T |
| 400T | 183 | 850 | 180 | 400 | 120 | 80 | 400 | G2140-400T |
| 500T | 196 | 900 | 200 | 450 | 150 | 100 | 450 | G2160-500T |



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# DYBH-101 Shear beam load cells






## Product Reviews

### Characteristic

The cantilever beam weighing sensor is also known as the shear beam weighing sensor. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

### Application Area

- Automobile scale and main laying axle load gauge in highway weighing equipment
- Small scale and platform scales, steel cylinder scales, and other fields in industrial scales
- Generally, three or four sensors are used as a group

| Parameters Table | | | |
|---|---|---|---|
| Range | 100T | Material quality | Alloy Steel |
| Output sensitivity | 2.0±0.05mV/V | Impedance | 350Ω |
| Zero point output | ±1%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.3%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.3%F.S. | Operating temperature range | -20-60℃ |
| Repeatability | 0.1F.S. | Safe overload | 150% |
| Creep (30 min) | 0.1%F.S. | Extreme overload | 300% |
| Temperature sensitivity drift | 0.05%F.S./10℃ | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.05%F.S./10℃ | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

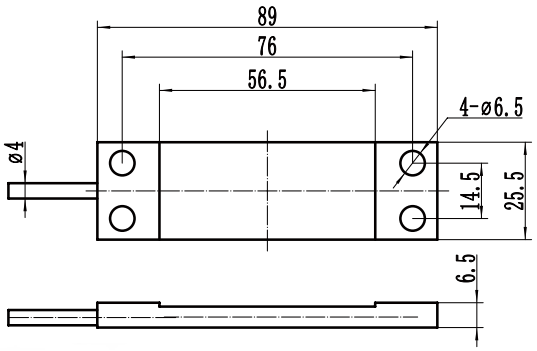
| Range (T) | A | B | C | D | 2-ΦE | Uncharge (US Crosby) |
|---|---|---|---|---|---|---|
| 1-3 | 196 | 80 | 30 | 130 | 26 | G213-6.5T |
| 5-8 | 196 | 80 | 40 | 130 | 29 | G213-8.5T |
| 10-12 | 260 | 100 | 45 | 170 | 36 | G213-12.5T |
| 15-25 | 260 | 100 | 50 | 170 | 52 | G213-25T |
| 30-50 | 360 | 120 | 65 | 230 | 72 | S09-55T |
| 100 | 570 | 170 | 85 | 360 | 98 | G2130-120T |



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# DYYB-001 Shear beam load cells












## Product Reviews

### Characteristic

The applied force will put a strain on the measured object. This strain can be reliably measured using strain sheets. Because the strain is proportional to the force, the sensor can accurately measure the applied force.

### Application Area

- Tank weighing
- Fan monitoring
- Pressure monitoring, etc

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-500μm/m | Material quality | Stainless Steel |
| Output sensitivity | 1.0-2.0mV/V | Impedance | 1000Ω |
| Zero point output | ±3%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.5%F.S. | Service voltage | 5-15V |
| Hysteresis | 0.5%F.S. | Operating temperature range | -20-60°C |
| Repeatability | 0.5%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.3%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.2%F.S./10°C | Cable line specifications | ϕ4x3m |
| Xero point temperature drift | 0.2%F.S./10°C | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

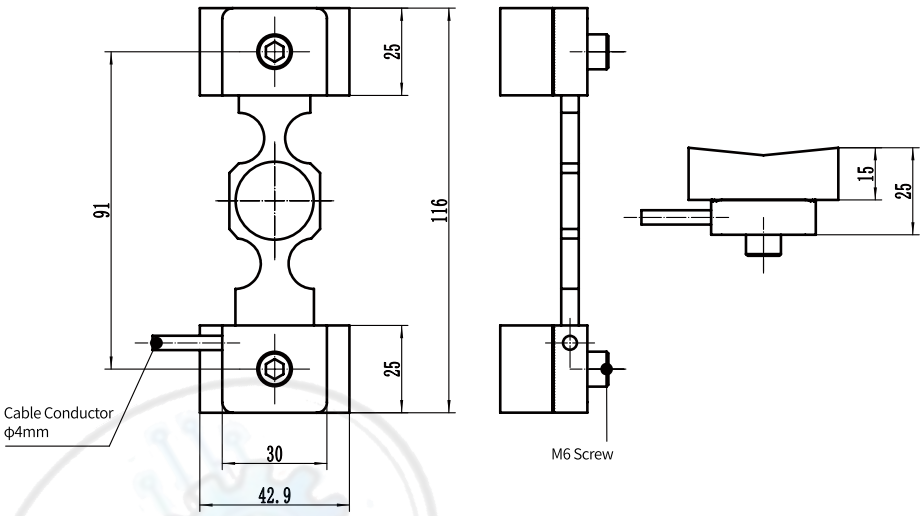
| Range |
|---|
| 1T |



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# DYYB-002 Shear beam load cells



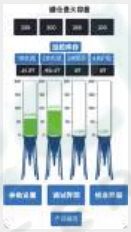







The microstrain sensor collects data on the support leg to the meter.





Intelligent weighing material level and mobile phone terminal



Material alarm indicator light

## Parameters Table

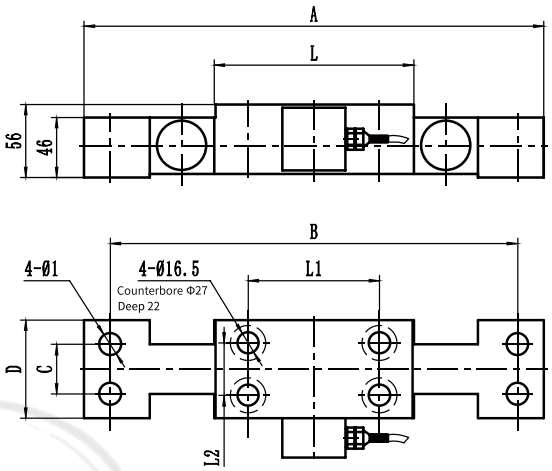
| | | | |
|---|---|---|---|
| Range | 50kg | Material quality | Stainless Steel |
| Output sensitivity | 1.0-2.0mV/V | Impedance | 1000Ω |
| Zero point output | ±3%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.5%F.S. | Service voltage | 5-15V |
| Hysteresis | 0.5%F.S. | Operating temperature range | -20-60°C |
| Repeatability | 0.5%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.3%F.S. | Extreme overload | 200% |
| Temperature sensitivity drift | 0.2%F.S./10°C | Cable line specifications | φ4x3m |
| Xero point temperature drift | 0.2%F.S./10°C | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |



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# DYZC-055 Shear beam load cells






## Product Reviews

### Characteristic

Bearing seat weighing sensor is a special weighing sensor, which is installed under the bearing seat to measure the force of the bearing seat. The weight of the object will apply the force to the bearing seat, and the sensor can detect the force of the bearing seat.

### Application Area

- Bearing seat weighing sensors are usually used in industrial fields, such as measuring the weight of objects on a production line.
- They can also be used in other applications, such as measuring the weight of parts in automobile manufacturing.

| Parameters Table | | | |
|---|---|---|---|
| Range | 0-20T | Material quality | Alloy Steel |
| Output sensitivity | 1.0±0.05mV/V | Impedance | 350/750±5Ω |
| Zero point output | ±2%F.S. | Insulation resistance | ≥5000MΩ/100VDC |
| Nolinear | 0.5%F.S. | Service voltage | 5-15v |
| Hysteresis | 0.5%F.S. | Operating temperature range | -20-80°C |
| Repeatability | 0.5%F.S. | Safe overload | 150% |
| Creep (30 min) | 0.5%F.S. | Extreme overload | 300% |
| Temperature sensitivity drift | 0.05%F.S./10°C | Cable line specifications | ϕ5x3m |
| Xero point temperature drift | 0.05%F.S./10°C | Cable limit tension | 10kg |
| Response frequency | 10kHz | TEDS | |

| Range (T) | A | B | C | Φ1 | D | L | L1 | L2 |
|---|---|---|---|---|---|---|---|---|
| 1.5 | 350 | 310 | 38 | 21 | 75 | 152 | 100 | 40 |
| 2.5 | 410 | 355 | 50 | 21 | 100 | 182 | 130 | 60 |
| 4 | 410 | 355 | 50 | 21 | 100 | 212 | 160 | 60 |
| 10-20 | 410 | 355 | 50 | 21 | 100 | 212 | 160 | 60 |



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