DAYSENSOR

PRODUCT MANUAL

Sensor & Measuring Instrument
Products Catalogue



Bengbu Dayang sensing System Engineering Co.,Ltd

PT. Jovatech Amerta Engineering · WhatsApp 0812-8021-1494 · info@jovatech.co.id · jovatech.co.id

National Force Sensitivity Sensor Research Base

It is widely used in industrial automation industry and metallurgy, oil field, chemical industry, military industry, aerospace, major scientific research institutions, universities, automobile, transportation, energy, machinery manufacturing, building materials and other industries.

Contact Us

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Penawaran, konsultasi & pemasangan di Indonesia



High speed patch machine



Machining center

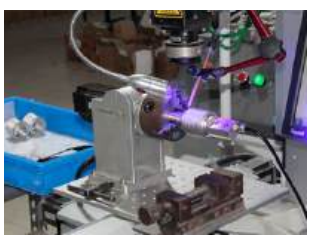


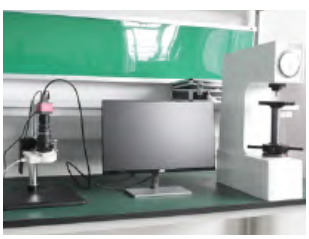






Professional production equipment











Main Products

- Load cells
- Torque sensor
- Miniature load cells
- Pressure sensor
- Weighing control instrument
- Ingredient Instrument
- Transmitter
- Various ingredient control systems

Certificate Of Honor


CIC

质量管理体系认证证书

证书号：

蚌埠大洋传感系统工程有限公司

GB/T19001-2016/ISO9001:2015

认证/注册范围

自2018年09月15日至2021年09月14日


高新技术企业

证书


中华人民共和国

制造计量器具许可证


中国测试技术研究院

检 定 证 书


中国测试技术研究院

校准证书


实用新型专利证书


实用新型专利证书


HTT

Certificate of Conformity

CE


HTT

Certificate of Conformity

RoHS


挂牌证书

蚌埠大洋传感系统工程有限公司 证券
（证券简称：大洋传感 证券代码：630520）
于二〇一九年七月三十一日在安徽省股权托管
交易中心科技创新专板培育层挂牌
特发此证。

安徽省股权托管交易中心有限责任公司
二〇一九年七月


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2020F081-34 号


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校准证书


中国航发南方工业有限公司计量实验室


中国航发南方工业有限公司计量实验室
校准结果

Glossary

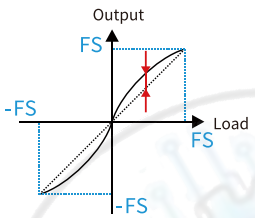
Glossary Of Torque Meter

Measurement range

The torque sensor can measure the range of torque (Nm).

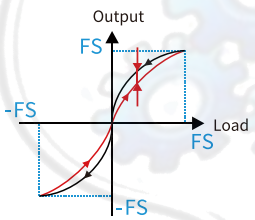
Non-linearity

Maximum deviation from the actual output of the ideal line from zero to full range (%FS).



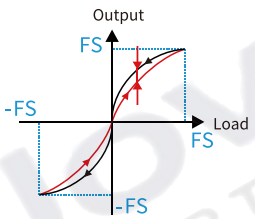
Hysteresis

Maximum deviation (%FS) from zero to full range.



Repeatability

Maximum deviation (%FS) for multiple loads applied under the same condition.



Safe overload

Normal recovery range for load beyond full range (%FS).

Operation temperature range

Temperature range (℃).

Temperature effect on zero

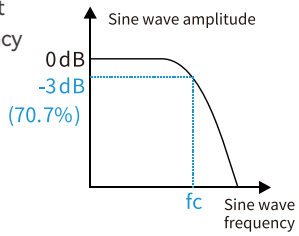
Range of zero point caused by ambient temperature change (%FS / ℃).

Temperature effect on span

Range of output (FS) from ambient temperature change (%FS / ℃).

Cut-off frequency

For sinusoidal torque, the output is-3dB (about 0.7 times) frequency (Hz).



Torsional constant

Torque required to twist the 1 rad (Nm / rad).

Maximum torsional angle

Tortorsion angle (rad) under maximum load.

Inertia moment

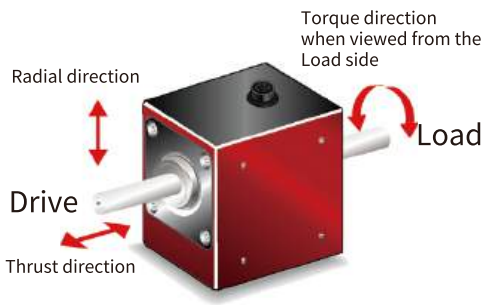
Proportional constant of angular acceleration and torque ($kgcm^2$).

Thrust direction

In directions parallel to the axis of rotation in this product.

Radial direction

The direction perpendicular to the rotation axis in this product.



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Instructions about the unit

Unit	Name	Instructions
Nm	Newton metre	Torque unit.1 Nm refers to the force (torque) applied in the center of rotation when the force of 1N acts on the 1m force arm
RPM	Revolutions per minute	The number of revolutions in 1 minute
rad	radian	Angle unit.1 rad approximately 57.2957°
FS	full scale	Maximum value in the measurement range. %FS is short for the full-range percentage

Conversion table

	Nm	Ncm	kgm	kgcm	gcm	Ncm
Nm	1	10^{2}	0.10197	10.197	$1.0197x10^{4}$	10^{3}
Ncm	10^{-2}	1	$1.0197x10^{-3}$	0.10197	$1.0197x10^{2}$	10
kgm	9.8067	$9.8067x10^{2}$	1	10^{2}	10^{5}	$9.8067x10^{3}$
kgcm	$9.8067x10^{-2}$	9.8067	10^{-2}	1	10^{3}	98.067
gcm	$9.8067x10^{-5}$	$9.8067x10^{-3}$	10^{-5}	10^{-3}	1	$9.8067x10^{-2}$
mNm	10^{-3}	0.1	$1.0197x10^{-4}$	$1.0197x10^{-2}$	10.197	1

Glossary Of Loadcell

Safe temperature range

Does not meet the specification but do not undergo permanent characteristics change with a temperature range of (℃).

Sage overload

The imum load that does not meet specifications but does not undergo permanent characteristic changes, expressed as a percentage relative to the rated capacity (%RC).

Elastomer

A component that is proportional to the stress.

Creep

Output change when applying a rated load for a certain period of time. The absolute value of the percentage of change in rated output over 30 min (% R.R./30min).

Repeatability

The maximum value of the output difference from the same load with repeated load increases under the same conditions. Represents the absolute value of the percentage of the rated output (%R.O.).

Natural frequency

Number of vibration times (kHz) of free vibration when the converter has no load.

Maximum excitation voltage

Applied maximum excitation voltage (V) that does not cause a change in converter characteristics.

Maximum safe overload

The ultimate load structural without permanent damage is expressed as a percentage relative to the rated capacity (%R.C.).

Maximum platform size

Maximum size (mm) specified in JIS B 7611-2:2009.

Output resistance

Impedance (Ω) between the output terminals measured without the load-open input terminals at the standard test temperature.

Temperature effect on span

Change in rated output due to ambient temperature change represents the absolute value of the percentage of rated output (% R.O./10℃).

Recommended excitation voltage

The most appropriate excitation voltage (V) when using the converter.

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Insulation resistance

The DC impedance between the converter circuit and the converter itself. DC50V measurements (MΩ).

Temperature effect on zero

Change in no load output (zero equilibrium) from ambient temperature change. Represents the absolute value of the percentage of change to rated output per 10℃ (% R.O./10℃).

Zero balance

Output with no load. Is expressed as a percentage relative to the rated output (%R.O.).

Reated output (R.O.)

Output with no load. Is expressed as a percentage relative to the rated output (%R.O.).

Rated capacity (R.C.)

Maximum load that can be measured within the converter specifications.

Input resistance

Impedance (Ω) between the input terminals measured without the load-open output terminals at the standard test temperature.

Transducer or Sensor

Device for converting a physical signal into an electrical signal.

Hysteresis

The maximum value of output difference for the same load increases or decreases to the rated load. Represents the absolute value of the percentage of the rated output (%R.O.).

Strain gage

Device that changes the magnitude of the strain to the electrical impedance changes.

Non-linearity

Maximum deviation from the line connecting the no-load point to the rated load point on the correction curve when the load increases. Represents the absolute value of the percentage of the rated output (%R.O.).

Poisson's ratio

Ratio of longitudinal strain to transverse strain. Is presented by a Poisson's ratio = transverse strain / longitudinal strain.

Wheatstone bridge

A circuit that ts resistance changes to voltage changes.

Degress of protection

The degree of protection against foreign intrusion and (or) immersion is indicated by the IP code specified in JIS C 0920.

Compensated temperature range

To ensure that the zero point temperature effect and the output temperature influence can meet the specifications. And the compensated temperature range (℃).

Load cell

A converter that converts the force size to an electrical signal.

■ Standard

CE | Conformite Ruropeenne

It indicates that the product meets all the requirements for safety and noise performance in the EC directive and is necessary for business transactions in the EU area. When complying with EC instruction, you can paste CE identification within your scope of responsibility.

CE

DIN | Deutsche Industrie Normen

The German industrial standard equivalent to the Japanese JIS standard.

IP | International Protection

Dust-proof and waterproof protection grade.

IP

Accuracy Class

Indicator module used for approved model, available for transaction or certification, identified as metering (standard No. JIS B 7611-2:2009).(Accuracy level: level 3).

Ⅲ

■ Others

RoHS | Restriction of Hazardous Substances

To ban the use of chemicals that may bring bad impressions on the environment and human body in electronic and electrical products sold in the EU area. The restricted harmful substances include lead, mercury, cadmium, hexavalent chromium, PBB (polybrommobiphenyls) and PBDE (polybrommodiphenyl ether).

RoHS

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Glossary Of Measuring Instruments

(Force gauge, weighing instrument, transducer signal converter)

RTI

Referred to input.

Scale division

Minimum magnitude of change when the indicated value changes. Usually consistent with the minimum scale.

Analog filter

The signal processing mode, removes the clutter and unwanted vibration components in the signal from the sensor, and extracts the target signal frequency components. Before quantization (digital, A / D transformation), through electronic circuits. →See Digital Filters, clutter

Excitation voltage

Value of the voltage applied to the sensor bridge.

Gain drift

Gain shift (ppm / ℃) per 1℃ temperature change.
Generally, the value obtained by subtracting the difference of the amount of zero point change by the applied temperature difference. The indicated rate of change is the value of the variation part divided by the maximum display value (full range).

$$\text{Minimum input sensitivity [μV/count]} = \frac{\text{Input voltage[μV]}}{\text{Resolution ratio}}$$

$$\text{Input voltage [μV]} = \text{Rated output [mV/V]} \times \frac{\text{Full scale}}{\text{Rated capacity}} \times \text{Excitation voltage[V]} \times 10^3 (\mu V \text{ Conversion})$$

Resolution = maximum of quantized (digital)

Capacity

The maximum weighing value of the gauge device.

Actual load calibration

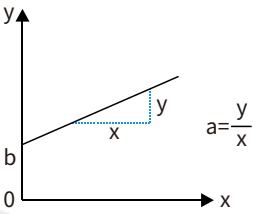
Method for correction by applying the actual weight and pressure to the sensor. See Equivalent Input Correction

Signal input range

A range of voltage and current that can be applied to the signal input terminal.

Zero/span calibration

Quanttizing the input signal from the sensor and converting the value into actual physical quantities (e. g., weight, pressure, etc.) is called range correction. Mandatory zero-return of arbitrary signals is called zero-point correction.



y=ax+b
y: Display value
x: Converts the signal from the sensor to a quantized value
a: Tilt
b: Zero correction

Zero drift

Offset of zero point per 1℃ temperature change in input conversion (μ V / ℃ RTI).
Generally speaking, after the zero point change of a certain temperature change is divided by the maximum display value, the obtained value is input into the converted value.

typ.

Typical

Digital zero regulation value

The range of zero corrections that can be made by digital zero and zero tracking.

Digital filter

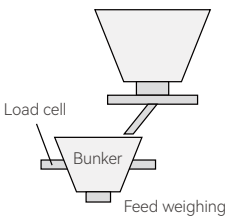
Mobile average digital filter to mobile average the quantized value. →See the analog filter

Equicvalent input calibration

Direct input is corrected for an electrical signal equivalent to the electrical signal changes generated when applying the actual weight and pressure to the sensor. → See the Actual Load Correction

Feed weighing

Put raw materials into the metering tank (hopper) and control the measurement mode of input according to the added weight.



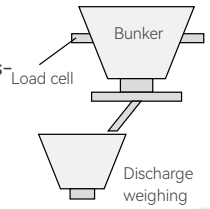
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Noise

Influence signals, external interference hindering measurement. In addition to the motor vibration and other mechanical clutter transmitted to the sensor, there are line clutter, electromagnetic wave, electrostatic and other electrical clutter.
→See the analog filter

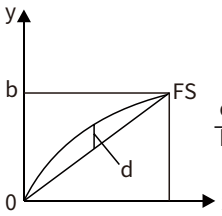
Discharge weighing

Supplement the raw materials to the metering tank (hopper) in advance, and then discharge the raw materials, and control the measurement mode of the discharge amount according to the reduced weight.



Non-linearity

The deviation between the hypothetical line connecting the zero and the maximum and the actual indicated value is expressed by a ratio relative to the maximum. Inindicates the maximum deviation between the line connecting the base point and the output maximum and the measured curve. Represented as a ratio relative to the full range (FS) (% / FS).



$\frac{d}{b}$ x(%/FS)

y: Indication value
x: Quantization value of input signal

Resolution

When quantizing the maximum input signal, divide it into several equal parts. It can be represented by the maximum value of quantization or its inverse.

1/4 Scale

The function of detecting the center of the weight value scale (within ± 1/4 scale). Inside the indicator, this function can be achieved with a resolution of 4 times that of one scale.

Remote sensing type

The function of setting the power cord that supplies power to the sensor and the cable that detects the voltage drop of the power cord, which is not affected by the length and temperature changes of the power cord, automatically maintains the voltage transmitted to the sensor within a certain range.

Ratio metric type

In order to convert the voltage energy transmitted to the sensor, setting the reference voltage to be the same will result in voltage errors due to temperature and time changes. The ratio method can offset the voltage error and perform correct quantization processing.

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LOAD CELLS INDEX

01 S type load cells

001 **DYLY-101** 0-20T 

002 **DYLY-102** 1-7T 

003 **DYLY-103** 0-10T 

004 **DYLY-104** 0-2T 2-10T 

005 **DYLY-105** 0-1.5T 

006 **DYLY-106** 0-100kg 

007 **DYLY-107** 0-200kg 

008 **DYLY-108** 0-200kg 

009 **DYLY-108M** 0-200kg 

010 **DYLY-109** 0-10kg 

011 **DYTSC** 50kg-5T 

012 **DYTSH** 0-5T 

02 Spoke type load cells

014 **DYLF-101** 0-50T 

015 **DYLF-102** 0-1000T 

016 **DYLF-104** 0-100kN 

017 **DYLF-105** 50-500T 

018 **DYLF-106** 0-50T 

03 Shear beam load cells

020 **DYX-301** 0-10T 

021 **DYX-302** 0.5-25T 

022 **DYSBS** 0-3T 

023 **DYHLJ** 0-5T 

024 **DYX-305** 0-2000kg 

025 **DYX-306A** 0-2kg 

026 **DYX-306B** 0-40kg 

027 **DYX-306C** 0-350kg 

028 **DYX-306D** 0-500kg 

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029 **DYX-307**
50-1000kg


030 **DYX-309**
0-10kN


031 **DYBW-106**
0-1000kg


032 **DYZX-001**
0-100T


033 **DYZX-002**
0-150T


034 **DYWL-001**
10-100N


035 **DYQ-101**
1-30T


036 **DYBH-102**
1-500T


037 **DYBH-103**
100T


038 **DYBH-101**
100T


039 **DYYB-001**
0-500μm/m


040 **DYYB-002**
50kg


041 **DYZC-055**
0-20T


04 Tension sensor

043 **DYZHL**
0-1000N


044 **DYZL-101**
1-200kN


045 **DYZL-104**
0-200kN


046 **DYZL-105**
3000kg


047 **DYZL-106**
20-300N


048 **DYZL-107**
0-100kg


049 **DYZL-108**
0-50kg


05 Miniature load cells

051 **DYHW-106**
5-20kg


052 **DYHW-108**
1-100kg


053 **DYHW-110**
1-100kg


054 **DYHW-112**
50-500N


055 **DYHW-113**
1-200kg


056 **DYHW-116**
0-10T


057 **DYHW-120**
0-2000kg


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06 Capsule type load cells

059 DYMH-101 50kg-15T 

060 DYMH-102 50kg-10T 

061 DYMH-103 0-500kg 

062 DYMH-104 0-5T 

063 DYMH-105 0-2T 

064 DYMH-106 0-500kg 

065 DYMH-107 0-20kN 

066 DYMH-108 0-1000kg 

067 DYMH-108D 0-5kN 

068 DYMH-109 2.5-20T 

069 DYMH-113 0-50kg 

070 DYPB-001 1-5T 

071 DYPB-002 1-3T 

072 DYPB-003 1-5T 

073 DYTB-001 1-200kg 

074 DYTB-002 1-200kg 

07 Diffused silicon pressure transmitter

076 DYPT-603 -0.1-60Mpa 

08 Column type load cells

079 DYZ-100 0-500N 

080 DYZ-101 0-2000kg 

081 DYZ-102 0-50kg 

082 DYZ-103 0-150kN 

083 DYZ-104 0-100kN 

084 DYZ-105 0-3000kg 

085 DYZ-106 0-50kN 

086 DYZ-107 0-200kg 

087 DYZ-108 0-40T 

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088 **DYZ-109** 0-40T 

089 **DYZ-011** 0-1000T 

090 **DYZ-012** 5-500T 

091 **D620** 

092 **DYZ-013** 0-30T 

093 **DYZ-014** 0-100T 

094 **DYZ-015** 0-3500T 

095 **DYZ-016** 3-30T 

096 **DYZ-018** 0-200T 

097 **DYZ-13E** 0-50kg 

098 **DYHX-001** 0-100kg 

099 **DYHX-002** 5-50T 

100 **DYHX-002M** 30-500kg 

101 **DYHX-003** 50kg-5T 

102 **DYHX-003M** 30-500kg 

103 **DYHX-004** 0-200kN 

104 **DYRTN** 1-470T 

09 Multi-axial force sensor

106 **DYDW-001** 0-1000kg 

107 **DYDW-002** 3-60N.m 100-2000N 

108 **DYDW-003** 1-50N.m 50-1000N 

109 **DYDW-004** 5-100kg 

110 **DYDW-005** 100-5000N 

111 **DYDW-006** 5-100kg 

112 **DYDW-007** 0-1000kg 

113 **DYDW-008** 300N 10N.m 

114 **DYDW-009** 10kN/750N.m 

115 **DYDW-γ25** 20-100N 0.5-5N.m 

117 **DYDW-γ45** 20-200N 0.5-5N.m 

119 **DYDW-γ74** 5000N 100N.m 

121 **DYDW-γ80** 500N 10N.m 

123 **DYDW-γ82** 500N 20N.m 

125 **DYDW-γ125** 20kN 500N.m 

127 **DYDW-γ200** 100kN 5000N.m 

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10 Weighing Modules

130 DYMK-001 0-15T 

131 DYMK-002 0-100T 

132 DYMK-003 0-5T 

133 DYMK-004 10-300kg 

134 DYMK-005 0-40T 

135 DYMK-006 0-500kg 

136 DYFW 0-25T 

137 DYCW 0-20T 

138 DYFWC 0-20T 

139 DYMK-007 0-10T 

140 DYMK-008 50T 

11 Strain torque sensor

142 DYZY-001 3000g 

143 DYDC-001 620g 

144 DYJN-101 0-10000N.m 

145 DYJN-102 0-200N.m 

146 DYJN-103 0-3000N.m 

147 DYJN-104 0-150N.m 

148 DYJN-105 0-200N.m 

149 DYJN-106 0.1-5000N.m 

150 DYJN-107 0-1000N.m 

151 DYJN-108 0.2-5k N.m 

152 DYJN-110 0-200N.m 

153 DYJN-111 0-100000N.m 

154 INCLINATION DETECTION SYSTEM 100000N.m 

12 Dynamic torque sensor

157 DYN-200 0-20000N.m 

159 DYN-200 Pro 0-20000N.m 

161 DYN-201D 0-500N.m 

163 DYN-202 0.1-5N.m 

164 DYN-203 0-3000N.m 

166 DYN-204 0-5N.m 

167 DYN-205 0-5N.m 

168 DYN-206 0-800N.m 

169 DYN-207 0-200N.m 

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170 DYN-208 1000N.m 	174 DYN-210 Mini 0.1-10N.m 	176 DYN-T40 0-10000N.m 
171 DYJN-109 0-30000N.m 	175 DYN-212 0-300N.m 	178 DYN-502 0-250000N.m 
172 DYN-210 0-300000N.m 		

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13 Junction box and transmitter

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184 BSQ-001 	189 DYFV12 	194 X508A 
185 DY500 	190 X503 	195 X508B 
186 DY510 	191 DR304 	

14 Indicator

197 D740 TOUCH SCREEN 	200 DY054W 	202 DY055 
198 DY054 	201 DY054N 	203 DY056 

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204 X505-4 

205 X505 

206 DY220 

207 DY220B 

208 DY300 

209 DY300A 

210 DY800 

211 DY810 

212 DY920 

214 DYN-303 

215 DY6001 

216 DYCSM 

217 DY300 MULTI-FUNCTION CONTROLLER 

218 DY310 

219 DY320 

220 DY330 

221 DYHB 

222 DYCHB 

223 LN965A 

224 SXR21 

225 XSB2 

226 CH6 

227 700WC 

228 DY2025 

229 DY3190 

230 R305 

15 Software

231 SELECTION OF ADAPTIVE SOFTWARE

232 SOFTWARE INTRODUCTION

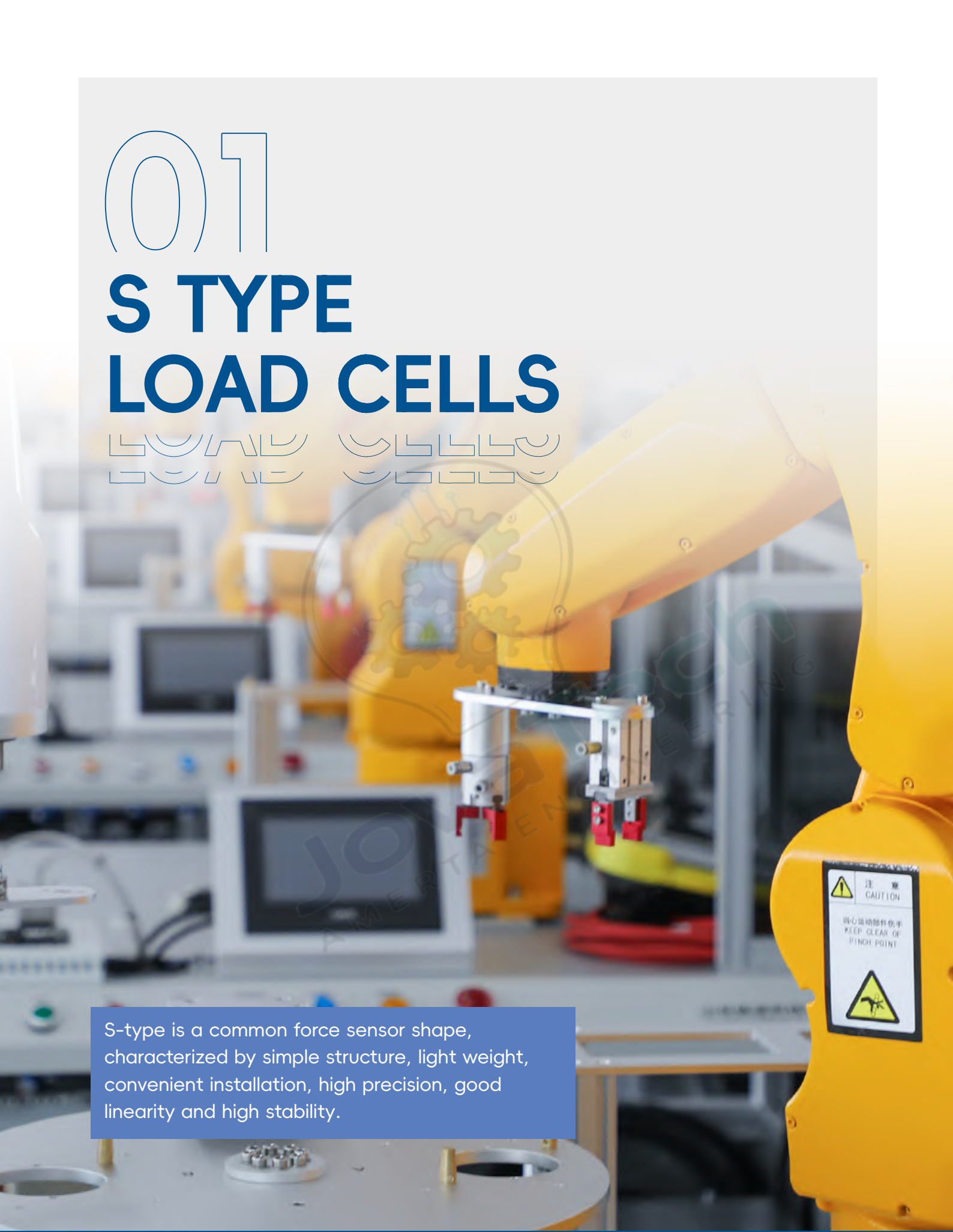
16 Custom products/Examples

234 CUSTOM PRODUCTS/EXAMPLES

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01

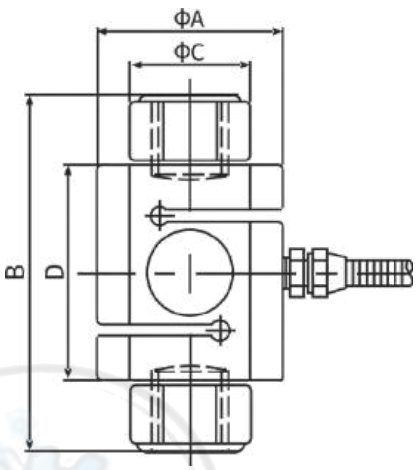
S TYPE LOAD CELLS

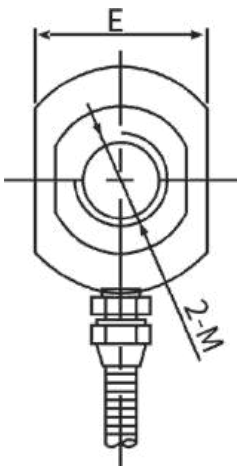


S-type is a common force sensor shape, characterized by simple structure, light weight, convenient installation, high precision, good linearity and high stability.

DYLY-101 S type load cells







Product Reviews

Characteristic

S-type is a common force sensor shape, characterized by simple structure, light weight, convenient installation, high precision, good linearity and high stability. Such sensors are commonly used to measure both light and moderate loads.

Application Area

- Machinery manufacturing industry: such as machine tool, pressure machine, injection molding machine, etc.
- Petrochemical industry: such as petroleum, chemical industry, coal gas, etc.
- Iron and steel metallurgy: such as iron and steel, metallurgy, casting, etc.
- Aerospace: such as aircraft, rockets, etc.

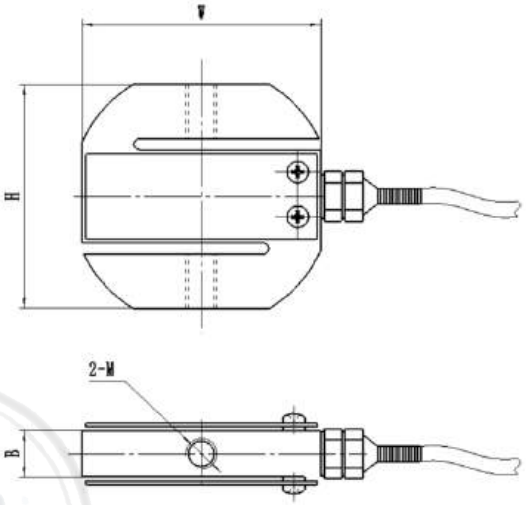
Parameters Table			
Range	0-20T	Material quality	Alloy Steel
Output sensitivity	2.0mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	Φ5 <2T 3m >2T 5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

Range	ΦA	B	ΦC	D	E	M
0-1000kg	44	88	28	56	26	M16x1.5
1-5T	58	112	38	68	44	M24x3
10T	84	160	60	104	58	M36x4
20T	88	156	68.5	108	76	M36x4

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DYLY-102 S type load cells





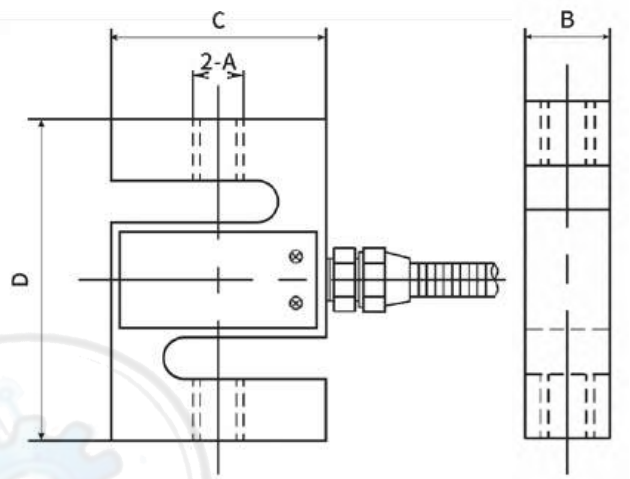
Parameters Table			
Range	1-7T	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10℃	Cable line specifications	ϕ5:0.2-1T/2m/2-7T/5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range	M	W	H	B
1-30kg	M8x1.25	62	58	12
50-200kg	M12x1.75	70	64	20
300-500kg	M12x1.75	70	64	20
1T	M16x2	70	64	25
2-7T	M20x2.5	84	92	32

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DYLY-103 S type load cells





Product Reviews

Characteristic

S-type is a common force sensor shape, characterized by simple structure, light weight, convenient installation, high precision, good linearity and high stability. Such sensors are commonly used to measure both light and moderate loads.

Application Area

- Machinery manufacturing industry: such as machine tool, pressure machine, injection molding machine, etc.
- Petrochemical industry: such as petroleum, chemical industry, coal gas, etc.
- Iron and steel metallurgy: such as iron and steel, metallurgy, casting, etc.
- Aerospace: such as aircraft, rockets, etc.

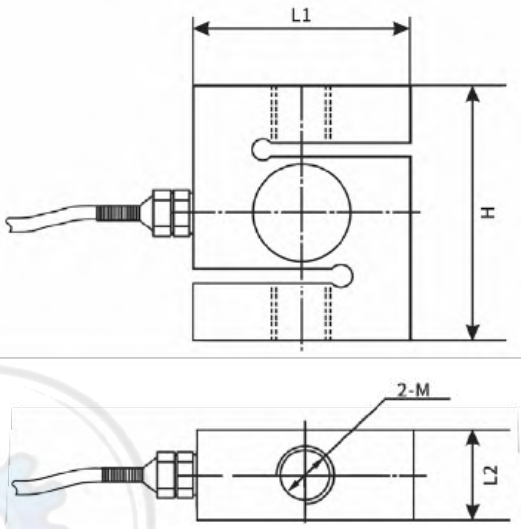
Parameters Table			
Range	0-10T	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10℃	Cable line specifications	ϕ5:0.2-1T/2m、2-5T/5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range	A	B	C	D
2-50kg	M8x1.25	12.7	50.8	50.8
100-300kg	M12x1.75	19	50.8	50.8
500kg-1.5T	M12x1.75	25.4	50.8	50.8
2-5T	M18x1.5	25.4	76.2	76.2

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DYLY-104 S type load cells





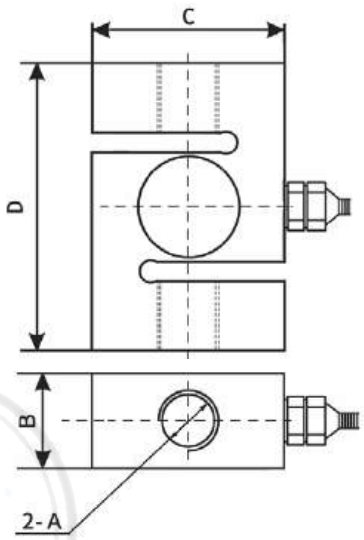
Parameters Table			
Range	0-2T 2-10T	Material quality	Alloy Steel
Output sensitivity	2.0mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ5: 0-2T/2m 2-10T/5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range	2-M	H	L2	L1
200-500kg	M12x1.75	70	25	60
700kg-1T	M16x2	70	25	60
2T	M16x2	70	25	64
3-5T	M18x1.5	94	35	86
10T	M30x2	137	60	110

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DYLY-105 S type load cells





Product Reviews

Characteristic

S-type is a common force sensor shape, characterized by simple structure, light weight, convenient installation, high precision, good linearity and high stability. Such sensors are commonly used to measure both light and moderate loads.

Application Area

- Machinery manufacturing industry: such as machine tool, pressure machine, injection molding machine, etc.
- Petrochemical industry: such as petroleum, chemical industry, coal gas, etc.
- Iron and steel metallurgy: such as iron and steel, metallurgy, casting, etc.
- Aerospace: such as aircraft, rockets, etc.

Parameters Table			
Range	0-1.5T	Material quality	Alloy Steel
Output sensitivity	2.0mV/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	ϕ5x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

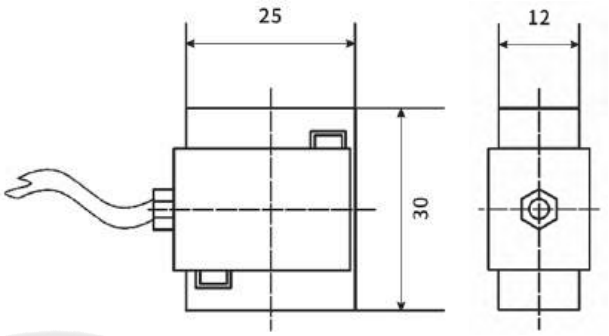
Range	A	B	C	D
100-200kg	M12x1.75	19	50.8	76.2
300-500kg	M12x1.75	25.4	50.8	76.2
1-1.5T	M16x2	25.4	50.8	76.2

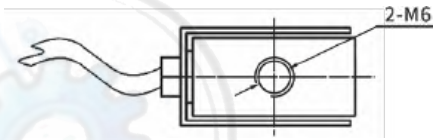
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DYLY-106 S type load cells









Product Reviews

Characteristic

The elastomer adopts the S-type beam-type structure. With small shape, two ends of thread design, small volume, high accuracy, easy installation, can meet the force measurement within the range of 1-100kg.

Application Area

- The car pressure
- Automated assembly
- 3C product testing
- Robot hand grip
- Keyboard hand feel degree test, etc

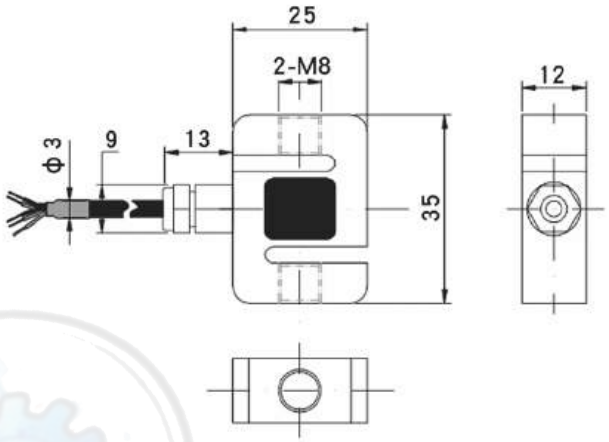
Parameters Table			
Range	0-100kg	Material quality	Alloy Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10℃	Cable line specifications	ф3x2m
Xero point temperature drift	0.03%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)									
0	1	2	3	5	10	20	30	50	100

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DYLY-107 S type load cells





Product Reviews

Characteristic

S-type is a common force sensor shape, characterized by simple structure, light weight, convenient installation, high precision, good linearity and high stability. Such sensors are commonly used to measure both light and moderate loads.

Application Area

- Machinery manufacturing industry: such as machine tool, pressure machine, injection molding machine, etc.
- Petrochemical industry: such as petroleum, chemical industry, coal gas, etc.
- Iron and steel metallurgy: such as iron and steel, metallurgy, casting, etc.
- Aerospace: such as aircraft, rockets, etc.

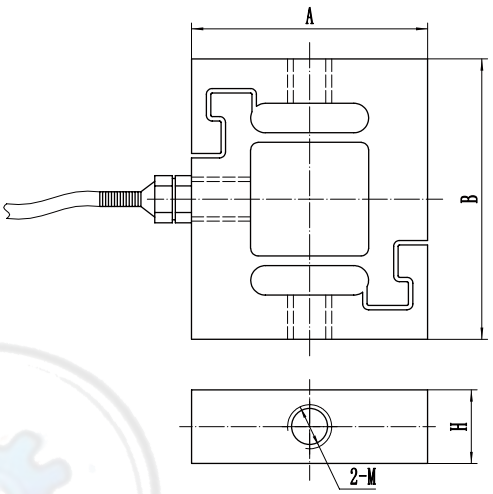
Parameters Table			
Range	0-200kg	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-10V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10℃	Cable line specifications	φ3x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)						
5	10	20	30	50	100	200

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DYLY-108 S type load cells





Product Reviews

Characteristic

The elastomer adopts the S-type beam-type structure. With small shape, two ends of thread design, small volume, high accuracy, easy installation, can meet the force measurement within the range of 1-100kg.

Application Area

- The car pressure
- Automated assembly
- 3C product testing
- Robot hand grip
- Keyboard hand feel degree test, etc

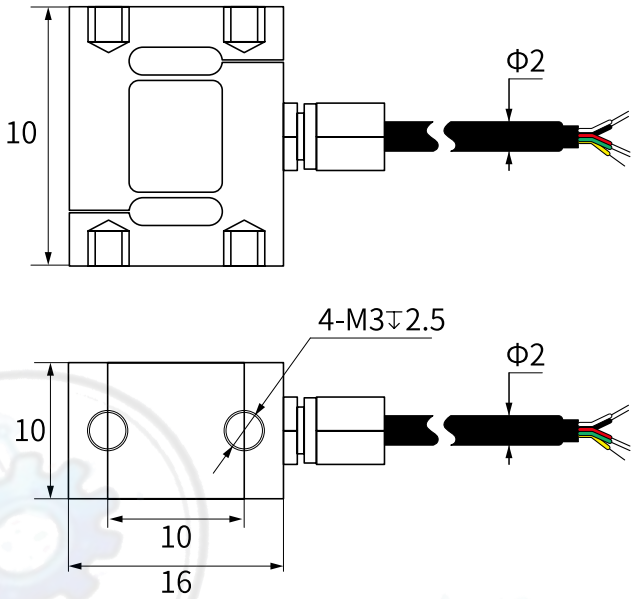
Parameters Table			
Range	0-200kg	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-10V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.05%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	<100kg:ϕ2x1m >100kg:ϕ3x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)	M	H	A	B
0.5-10	M3	5	16	19.1
20-50	M4	6	16	19.1
100-200	M8	14	26	40

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DYLY-108M S type load cells





Product Reviews

Characteristic

The elastomer adopts the S-type beam-type structure. With small shape, two ends of thread design, small volume, high accuracy, easy installation, can meet the force measurement within the range of 1-100kg.

Application Area

- The car pressure
- Automated assembly
- 3C product testing
- Robot hand grip
- Keyboard hand feel degree test, etc

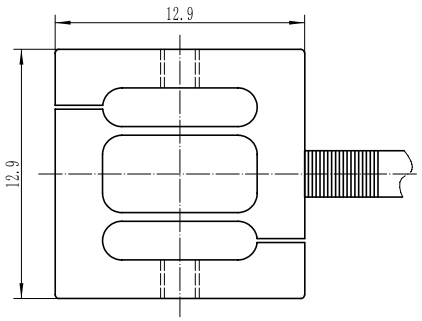
Parameters Table			
Range	0-200kg	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Input resistance	380±15Ω
Zero point output	±0.05%F.S.	Output resistance	350±10Ω
Nolinear	0.1%F.S.	Insulation resistance	≥2000MΩ/100VDC
Hysteresis	0.05%F.S.	Service voltage	5-10V
Repeatability	0.05%F.S.	Operating temperature range	-10-50℃
Creep (30 min)	0.05%F.S.	Safe overload	150%
Temperature sensitivity drift	0.05%F.S./10℃	Extreme overload	200%
Xero point temperature drift	0.05%F.S./10℃	Cable line specifications	<100kg:φ2x1m >100kg:φ3x2m
Response frequency	1kHz		

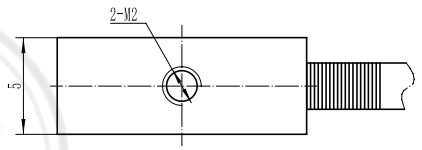
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DYLY-109 S type load cells









Product Reviews

Characteristic

The elastomer adopts the S-type beam-type structure. With small shape, two ends of thread design, small volume, high accuracy, easy installation, can meet the force measurement within the range of 1-100kg.

Application Area

- The car pressure
- Automated assembly
- 3C product testing
- Robot hand grip
- Keyboard hand feel degree test, etc

Parameters Table			
Range	0-10kg	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.10%F.S.	Service voltage	5-10V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.05%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ2x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)				
0.5	1	2	5	10

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DYTSC S type load cells



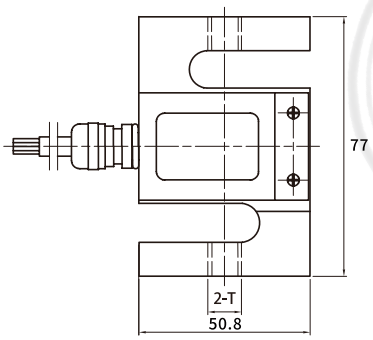
Product Reviews

Characteristic

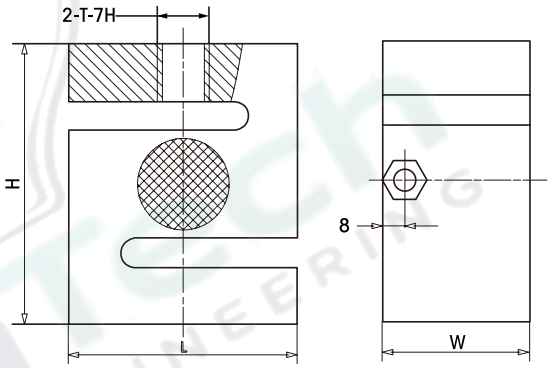
S-type is a common force sensor shape, characterized by simple structure, light weight, convenient installation, high precision, good linearity and high stability. Such sensors are commonly used to measure both light and moderate loads.

Application Area

- Machinery manufacturing industry: such as machine tool, pressure machine, injection molding machine, etc.
- Petrochemical industry: such as petroleum, chemical industry, coal gas, etc.
- Iron and steel metallurgy: such as iron and steel, metallurgy, casting, etc.
- Aerospace: such as aircraft, rockets, etc.



Range (kg)	W	T
50,100,200	18.5	M10X1
300	24.4	M10X1
500	24.4	M12X1
1000	36	M12X1



Range (T)	L	H	W	T
2	70	86	45	M16x1. 5
3	80	100	50	M18x1.5
5	92	130	58	M20x2

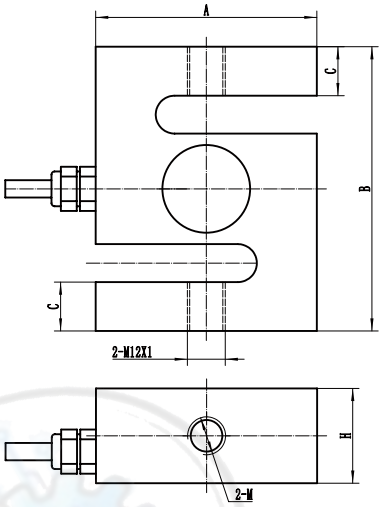
Parameters Table

Range	50kg-5T	Material quality	Alloy Steel
Output sensitivity	2.0-3.0±10%mV/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	300%
Temperature sensitivity drift	0.03%F.S./10℃	Cable line specifications	ϕ5x6m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

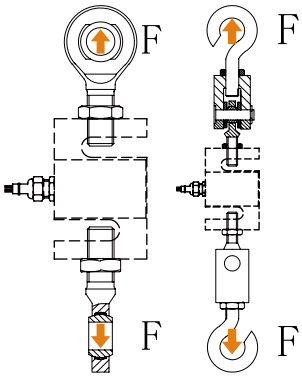
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DYTSH S type load cells





Force diagram



Product Reviews

Characteristic

S-type is a common force sensor shape, characterized by simple structure, light weight, convenient installation, high precision, good linearity and high stability. Such sensors are commonly used to measure both light and moderate loads.

Application Area

The hopper and suspension can be formed through the S-type sensor and its corresponding connector, optional stainless steel welding seal, protection grade IP68, can be used in a variety of complex industrial environment.

- Llifting hook scale
- Hopper scale
- System batching weighing control

Parameters Table			
Range	0-5T	Material quality	Stainless Steel
Output sensitivity	2.0±10%mV/V	Input resistance	380±15Ω
Zero point output	±0.05mV/V	Output resistance	350±10Ω
Nolinear	0.0166%F.S.	Insulation resistance	≥2000MΩ/100VDC
Hysteresis	0.0166%F.S.	Service voltage	5-15V
Repeatability	0.018%F.S.	Operating temperature range	-10-50℃
Creep (30 min)	0.0166%F.S.	An to overload	150%
Temperature sensitivity drift	0.0175%F.S./10℃	Extreme overload	200%
Xero point temperature drift	0.0125%F.S./10℃	Cable line specifications	ϕ5x3m
Response frequency	1kHz	Maximum scale disc size	500x400mm

Range	M	A	B	C	D
200kg/300kg	2-M10x1	62	80	16	30
500kg	2-M12x1	62	80	11.6	30
1T	2-M12x1	70	90	15.5	30
2T	2-M16x1.5	71	90	20.2	45
3T	2-M18x1.5	80	100	19.8	50
5T	2-M20x2	92	130	27.8	58

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02

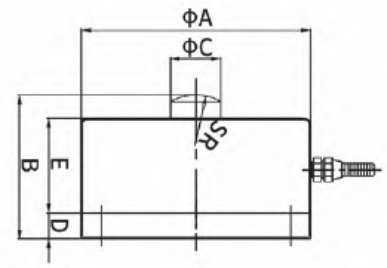
SPOKE TYPE LOAD CELLS

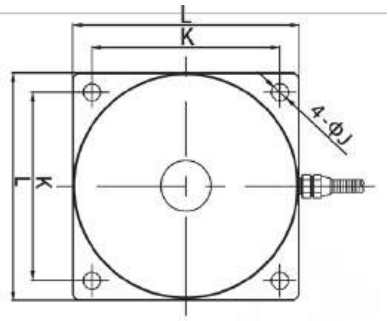


It has a series of advantages such as low height, high precision, good linearity, strong resistance to eccentric loads and lateral forces.It can measure both pressure and tension, so it is very suitable for weighing and force measurement.

DYLF-101 Spoke type load cells







Product Reviews

Characteristic

It has a series of advantages, such as low height, high precision, good linearity, strong ability of partial load resistance and lateral force. It can measure pressure and tension, so it is very suitable for weighing and measuring force measurement. It is not sensitive to the change of the force position and the influence of the interference force. The stress distribution in the strain sensitive area only changes with the size of the force. The process performance of the elastomer working area is good, including mechanical processing, pasting and sealing installation process.

With low shape structure, convenient installation, good interchangeability, can improve the anti-bias load, make the operation state stable.

Application Area

- Universal material testing machine
- Hopper scale, automotive scale, rail scale, packaging scale, belt scale and other pull pressure test instruments
- Automation equipment field
- Test field

Parameters Table			
Range	0-50T	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	700/1400Ω
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°C
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°C	Cable line specifications	ϕ5x3m / 5m
Xero point temperature drift	0.03%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

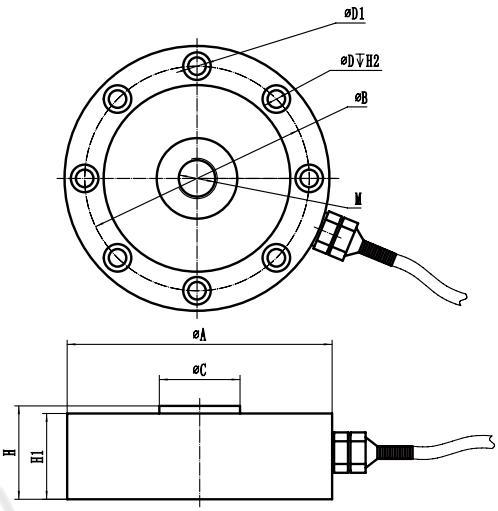
Range (T)	ΦA	B	ΦC	D	E	K	L	SR	4ΦJ
0.2-0.7	72	41	16	8	25	62	72	13	4.6
1-8	88	53	20	10	34	75	88	20	5.6
10-15	114	70	25	13	46	95	114	25	6.5
20-50	145	91	32	16	60	120	145	30	11

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DYLF-102 Spoke type load cells







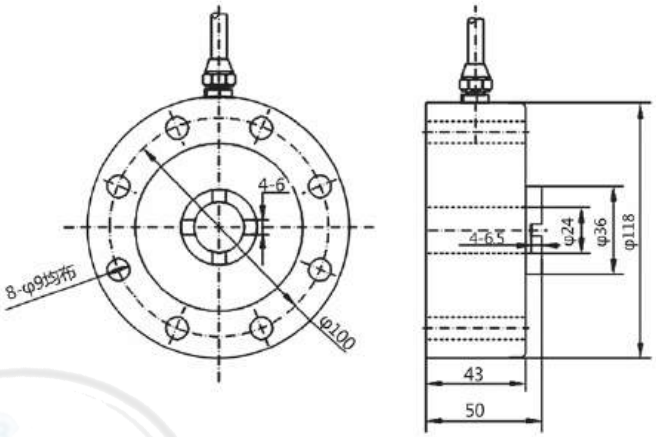
Parameters Table			
Range	0-1000T	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	20-1000kg:700/1400Ω 1-30T:700Ω 50-500T:1400Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15v
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%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	0.03%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range	ΦA	ΦB	ΦC	M	H	H1	H2	ΦD	ΦD1
100-1000kg	74	63	24	M16x1.5	34	30	7.2	8-Φ9	8-Φ6
1-5T	105	89	29	M16x1.5	37	34	7.2	8-Φ11	8-Φ7
10-20T	120.6	101.8	39	M32x1.5	53.5	41	10.5	8-Φ14	8-Φ9
30T	141	116.8	50.4	M40x1.5	57.2	50.8	11	8-Φ18	8-Φ11
40-80T	208	174	95	M64x3	70	*	15	16-Φ20	16-Φ13
100-200T	280	230	136	M76x3	90	*	20	16-Φ26	16-Φ17
300-400T	360	300	190	M100x3	110	*	25	20-Φ40	20-Φ25
500-600T	420	370	266	M130x4	140	*	30	20-Φ42	20-Φ28
800-1000T	500	440	330	M200x4	170	*	30	12-Φ42	12-Φ28

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DYLF-104 Spoke type load cells





Product Reviews

Characteristic

It has a series of advantages, such as low height, high precision, good linearity, strong ability of partial load resistance and lateral force. It can measure pressure and tension, so it is very suitable for weighing and measuring force measurement. It is not sensitive to the change of the force position and the influence of the interference force. The stress distribution in the strain sensitive area only changes with the size of the force. The process performance of the elastomer working area is good, including mechanical processing, pasting and sealing installation process.

With low shape structure, convenient installation, good interchangeability, can improve the anti-bias load, make the operation state stable.

Application Area

- Universal material testing machine
- Hopper scale, automotive scale, rail scale, packaging scale, belt scale and other pull pressure test instruments
- Automation equipment field
- Test field

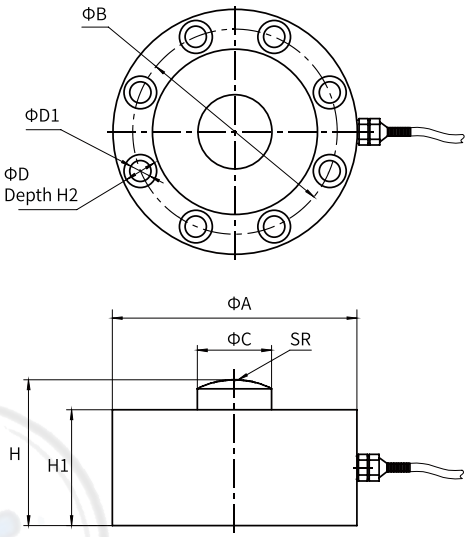
Parameters Table			
Range	0-100kN	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	700/1400Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100V DC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10℃	Cable line specifications	ϕ5x5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kN)				
10	20	30	50	100

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DYLF-105 Spoke type load cells





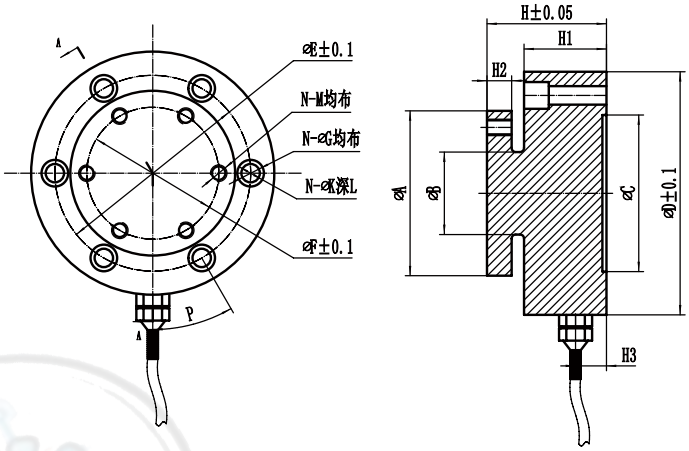
Parameters Table			
Range	50-500T	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	1400Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15v
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.05%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ф5x5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (T)	ΦA	ΦB	ΦC	SR	H	H1	H2	ΦD	ΦD1
50-70	148	124	45	50	88	70	15	4-ф20	4-ф13
80	178	145	55	100	85	65	15	8-ф20	8-ф13
100-150	208	1 76	60	100	95	75	20	8-ф20	8-ф13
200-300	260	200	90	200	100	85	22	8-ф27	8-ф17
400-500	315	260	145	450	130	115	15	16-ф30	16-ф1 7

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DYLF-106 Spoke type load cells





Product Reviews

Characteristic

It has a series of advantages, such as low height, high precision, good linearity, strong ability of partial load resistance and lateral force. It can measure pressure and tension, so it is very suitable for weighing and measuring force measurement. It is not sensitive to the change of the force position and the influence of the interference force. The stress distribution in the strain sensitive area only changes with the size of the force. The process performance of the elastomer working area is good, including mechanical processing, pasting and sealing installation process.

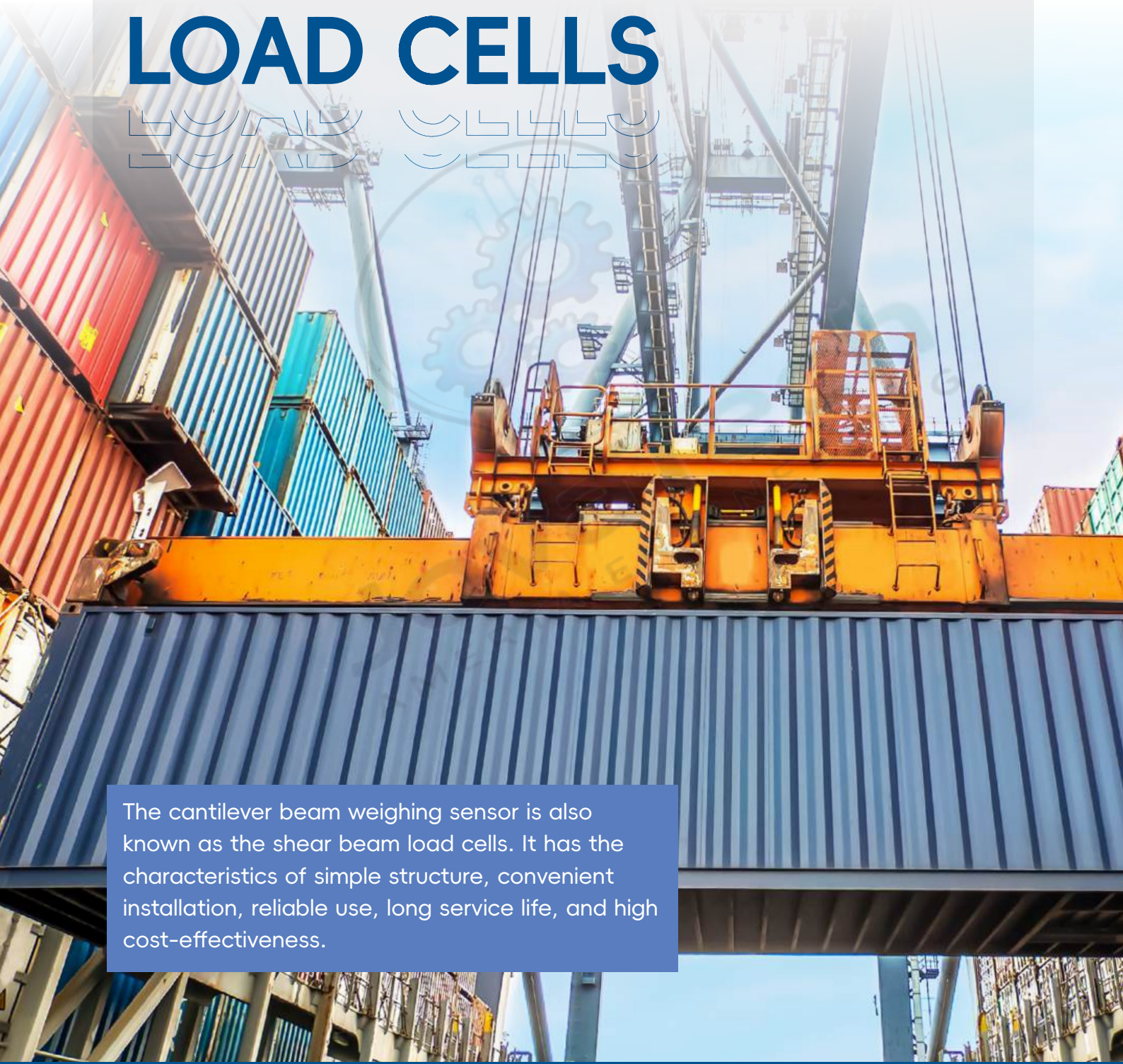
Parameters Table			
Range	0-50T	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	700Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.2%F.S.	Service voltage	5-15V
Hysteresis	0.2%F.S.	Operating temperature range	-20-80℃
Repeatability	0.2%F.S.	Safe overload	150%
Creep (30 min)	0.2%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	A	B	C	D	H	H1	H2	H3	E	F	N	M	G	K	L	P
0.5-1T	53	26	48	80	39	24	10	11	63	42	4	6	6	9	8	45°
2-10T	80	40	76	118	58	40	12	15	95	64	6	8	9	14	12	30°
20-50T	102	60	96	146	74	48	20	20	121	81	8	10	11	17	13	22.5°

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03

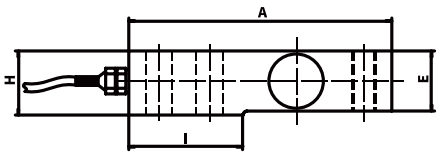
SHEAR BEAM LOAD CELLS

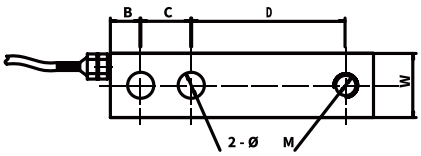


The cantilever beam weighing sensor is also known as the shear beam load cells. It has the characteristics of simple structure, convenient installation, reliable use, long service life, and high cost-effectiveness.

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

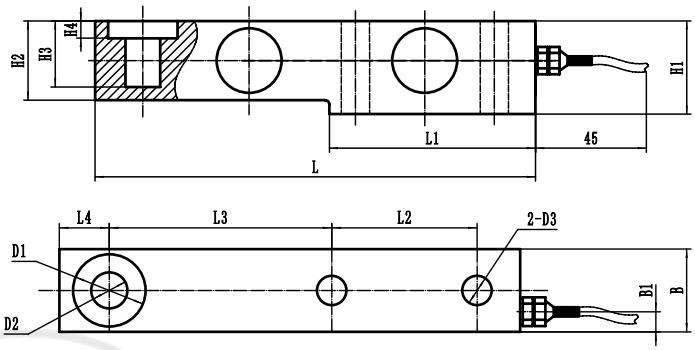
Range	0-10T	Material quality	Alloy steel / stainless steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	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

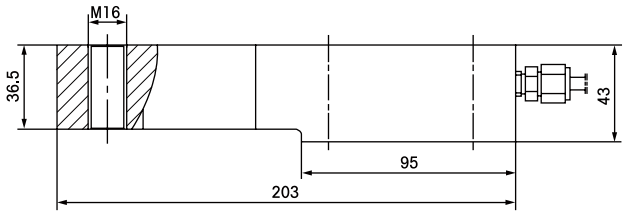
Parameters Table			
Range	0.5-25T	Material quality	Alloy steel / stainless steel
Output sensitivity	2.0±0.02mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-10V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	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

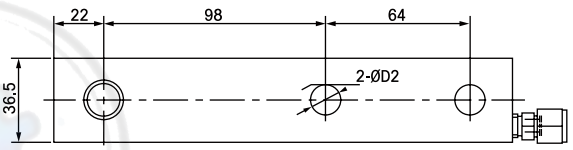
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DYSBS Shear beam load cells









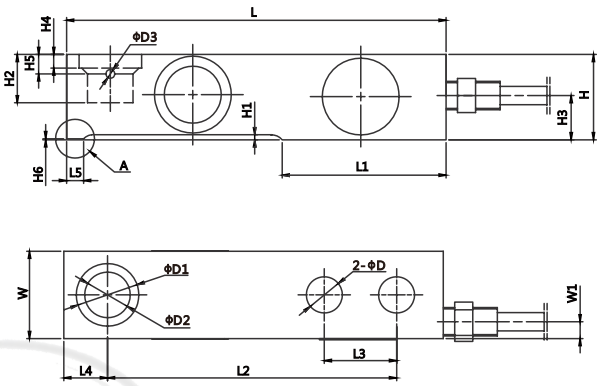
Parameters Table			
Range	0-3T	Material quality	Alloy steel / stainless steel
Output sensitivity	2.0±0.02mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.02%F.S.	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

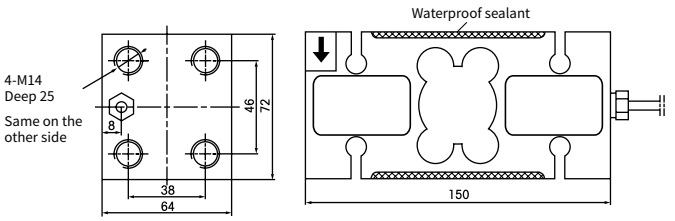
Range	0-5T	Material quality	Alloy Steel / Stainless Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.02%F.S.	Safe overload	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

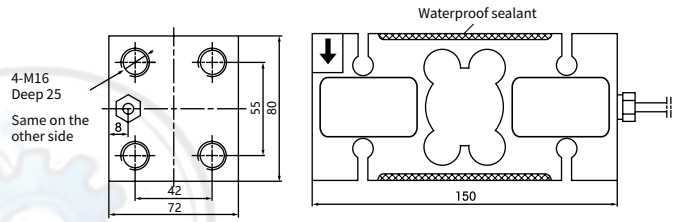
Range (T)	D	D1	D2	D3	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	W	W1
0.25 /0.5/1	12.7	22	15.9	3.1	30	1.9	17	15.9	4.7	7.7	0.38	133.4	57.6	101.6	25.4	15.4	6.4	30.7	5.2
2	12.7	22	15.9	3.1	36.6	2.8	23	19.6	9.5	11.7	0.82	136.7	57.9	101.6	25.4	18. 4	6.4	36.8	6
3	15	22	15.9	-	36.6	1.2	23	19.6	9.5	11.7	-	139.7	57.9	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.

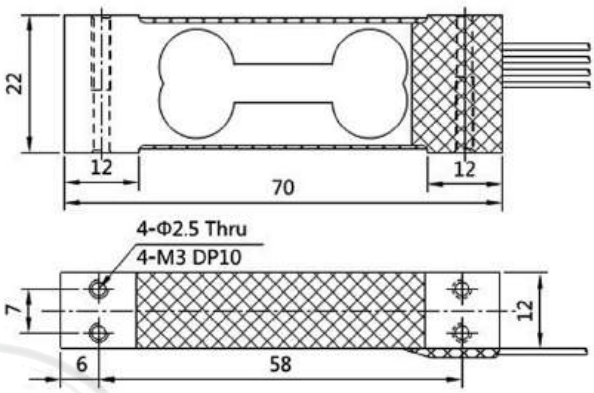
Parameters Table			
Range	0-2000kg	Material quality	Alloy Steel
Output sensitivity	2.0±0.02mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15v
Hysteresis	0.03%F.S.	Operating temperature range	-20-60℃
Repeatability	0.03%F.S.	Safe 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	

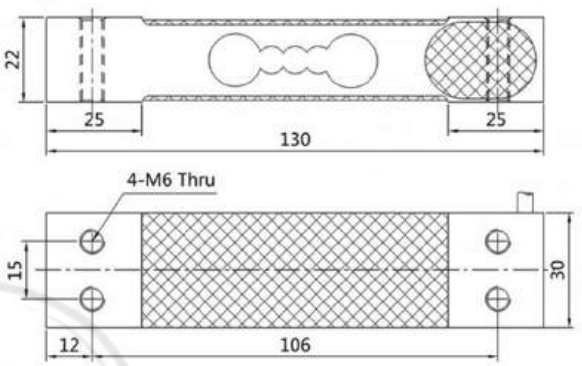
Range (kg)			
0.3	0.6	1	2

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DYX-306B Shear beam load cells







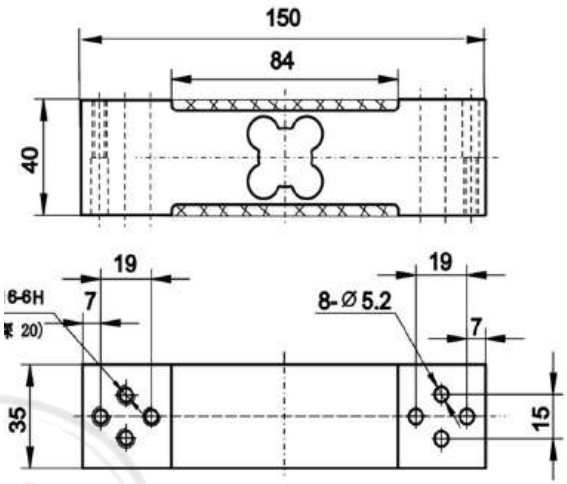
Parameters Table			
Range	0-40kg	Material quality	Alufer
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.02%F.S.	Service voltage	5-15v
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.02%F.S.	Safe overload	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	

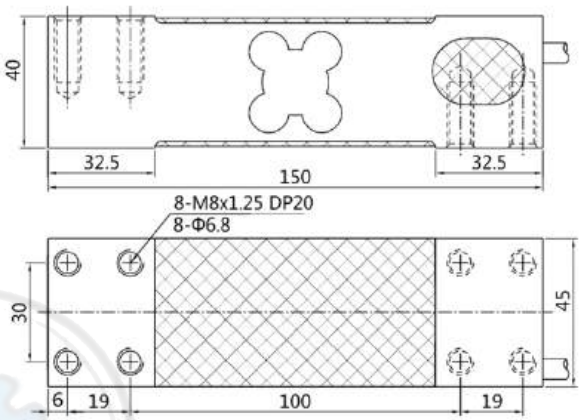
Range (kg)			
60	100	200	350

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DYX-306D Shear beam load cells







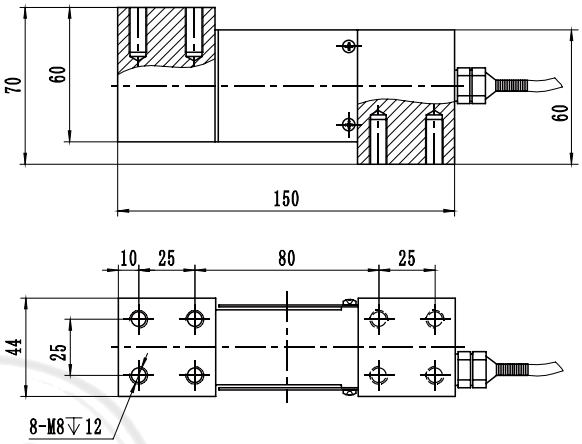
Parameters Table			
Range	0-500kg	Material quality	Alufer
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.02%F.S.	Service voltage	5-15v
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.02%F.S.	Safe overload	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

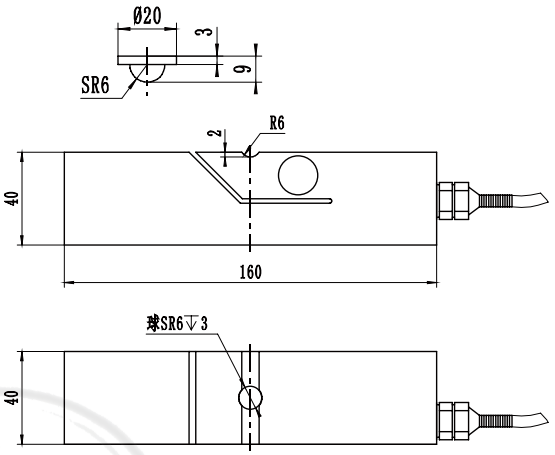
Parameters Table			
Range	50-1000kg	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15v
Hysteresis	0.03%F.S.	Operating temperature range	-20-60℃
Repeatability	0.03%F.S.	Safe 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.

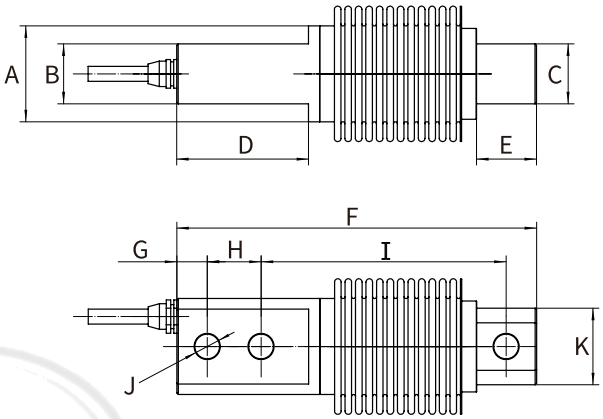
Parameters Table			
Range	0-10kN	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15v
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.05%F.S.	Safe overload	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.

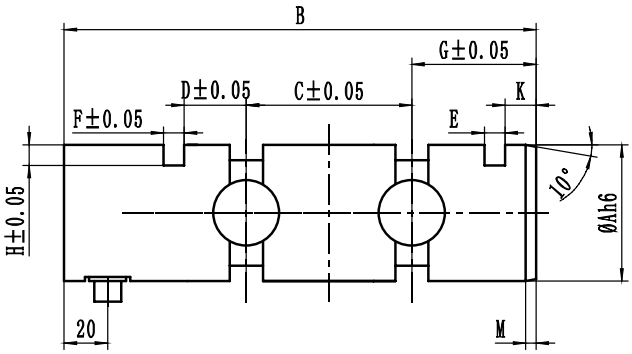
Parameters Table			
Range	0-1000kg	Material quality	Stainless Steel
Output sensitivity	2.0/3.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15v
Hysteresis	0.03%F.S.	Operating temperature range	-20-60°C
Repeatability	0.03%F.S.	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	

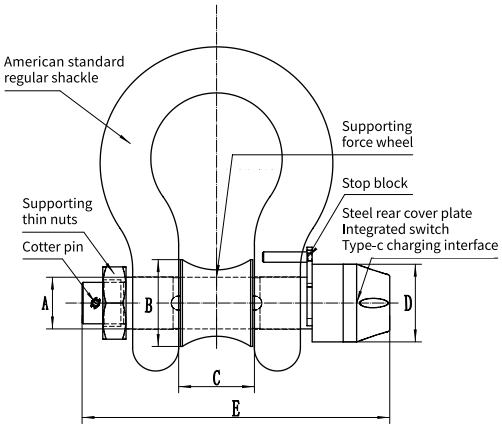
Range (T)	A	B	C	D	E	F	G	H	K	M
2/3/5	50	180	66	27	4.5	6.5	32	7	9	3
7/10	60	190	96	14	10	9	33	9	9	5
10/15	65	210	116	14	10	9	32	9	8	5
20/30	80	225	109	20	12	11	40	10	8	6
40/50/100	120	2 75	153	25	14	13	51	15	12	6

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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

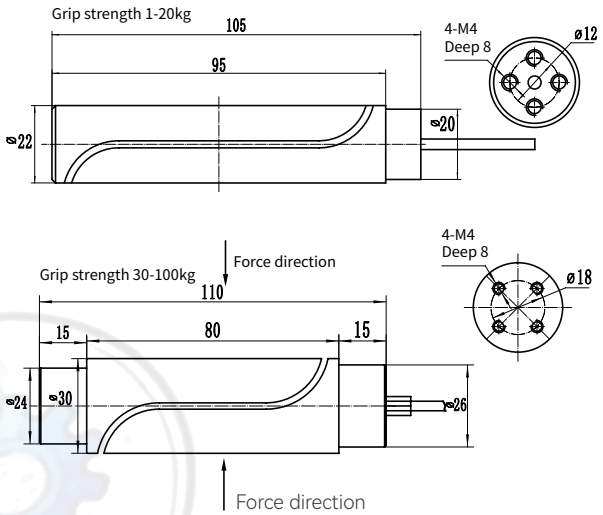
Parameters Table			
Range	0-150T	Material quality	Alloy Steel
Output sensitivity	2.0/3.0±0.05mV/V	Impedance	700Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15v
Hysteresis	0.03%F.S.	Operating temperature range	-20-60℃
Repeatability	0.1%F.S.	Safe 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

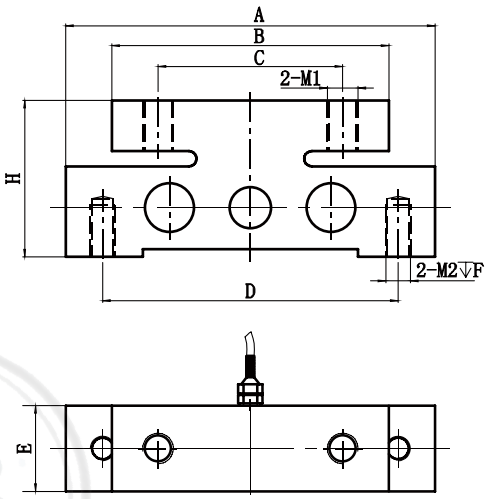
Parameters Table			
Range	10-100N	Material quality	Alufer
Output sensitivity	2.0±0.05mV/V	Impedance	350±20Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.2%F.S.	Service voltage	5-15V
Hysteresis	0.2%F.S.	Operating temperature range	-20-60°C
Repeatability	0.2%F.S.	Safe overload	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

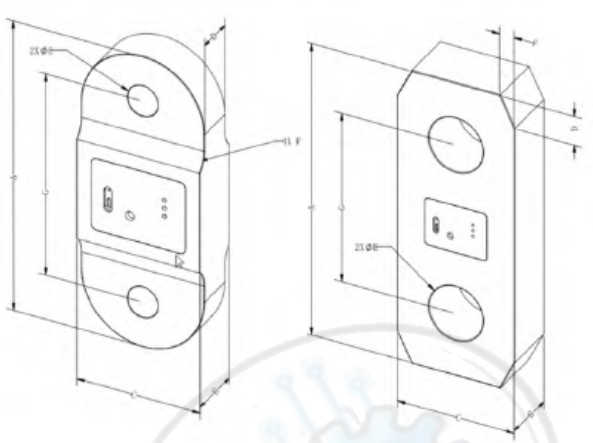
High-speed and stable data transmission for distance of 200m

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.

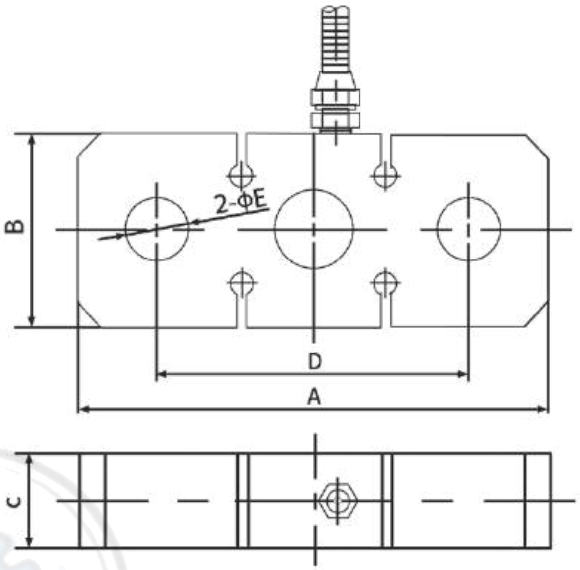
Parameters Table			
Range	1-500T	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15v
Hysteresis	0.3%F.S.	Operating temperature range	-20-60°C
Repeatability	0.1F.S.	Safe overload	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

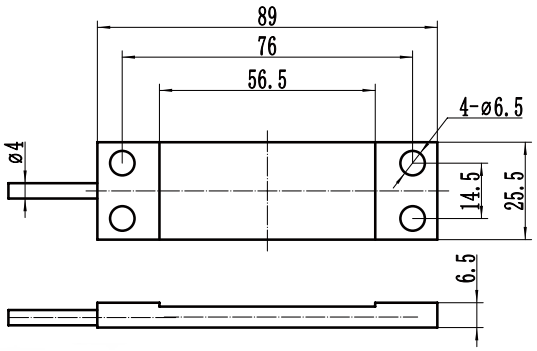
Parameters Table			
Range	100T	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15v
Hysteresis	0.3%F.S.	Operating temperature range	-20-60℃
Repeatability	0.1F.S.	Safe overload	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

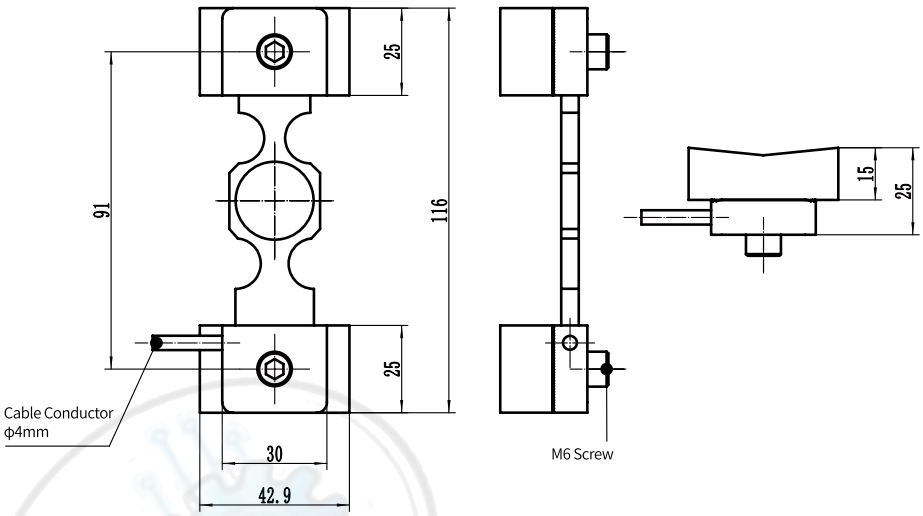
Parameters Table			
Range	0-500μm/m	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	1000Ω
Zero point output	±3%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-60°C
Repeatability	0.5%F.S.	Safe 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



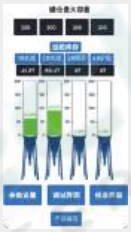






The microstrain sensor collects data on the support leg to the meter.





Intelligent weighing material level and mobile phone terminal



Material alarm indicator light

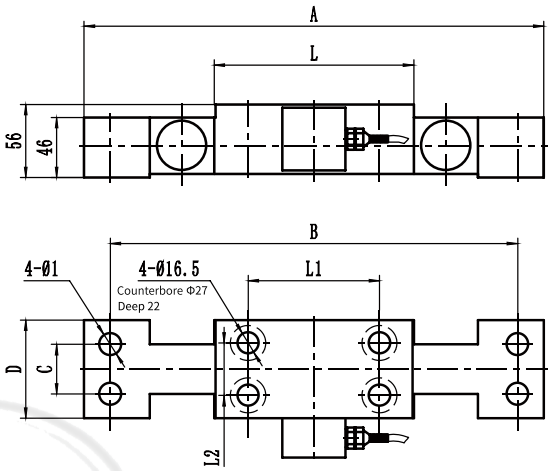
Parameters Table

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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04

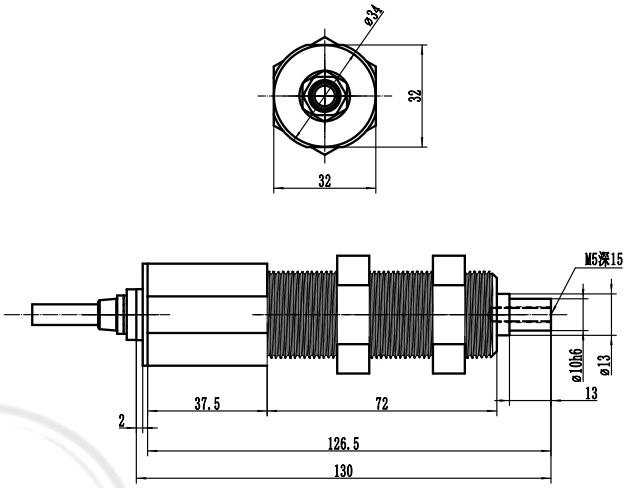
TENSION SENSOR



Tension sensors can detect small changes in tension and provide excellent resolution and sensitivity. Its performance in industrial applications is very outstanding.

DYZHL Tension sensor





Product Reviews

Characteristic

The cantilever beam tension sensor is designed for unilateral frame machine and applied in textile, wire and other industries. Enough to detect small changes in tension, and provide excellent resolution and sensitivity, its performance in industrial applications is very outstanding.

Application Area

- Tension sensor is an instrument for measuring the size of coil tension value, which is usually used in the industrial field.
- They can be used in pharmaceutical, textile, printing, packaging and other industries.

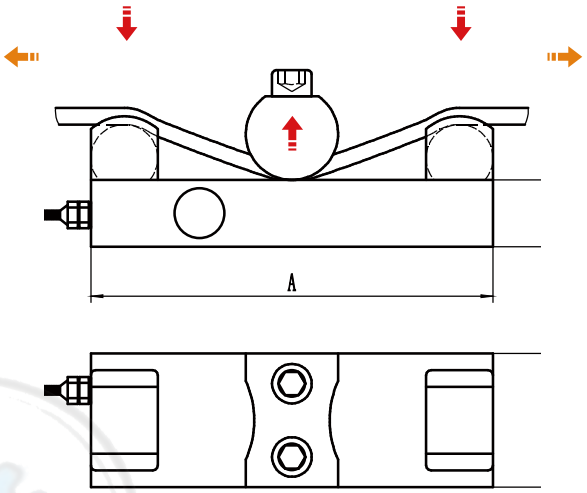
Parameters Table			
Range	0-1000N	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.2%F.S.	Service voltage	5-15v
Hysteresis	0.2%F.S.	Operating temperature range	-20-80°C
Repeatability	0.2%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ф5x3m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (N)						
10	20	50	100	200	500	1000

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DYZL-101 Tension sensor





Product Reviews

Characteristic

The working principle is to calculate the tension value by measuring the pressure. High reliability, good inter-changeability, easy to use, suitable for the measurement and control of steel wire rope tension.

Application Area

- Suitable for the measurement and control of the wire rope tension

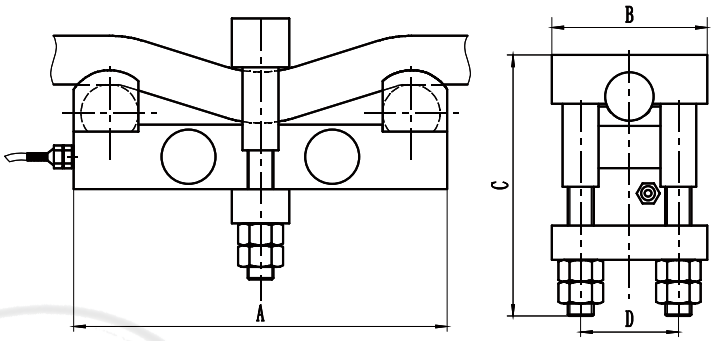
Parameters Table			
Range	1-200kN	Material quality	Alloy Steel
Output sensitivity	1.5±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15v
Hysteresis	0.5%F.S.	Operating temperature range	-20-60°C
Repeatability	0.3F.S.	Safe overload	150%
Creep (30 min)	0.3%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	

Wirerope Tension (kN)	Range (T)	Wirerope Diameter	A	B	C
10	1	Φ6-14	180	35	60
20	2	Φ10-18	180	35	60
40-60	4-6	Φ16-22	180	37	60
100-140	10-14	Φ16-22	180	37	60
200	20	Φ22-32	240	40	80

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DYZL-104 Tension sensor





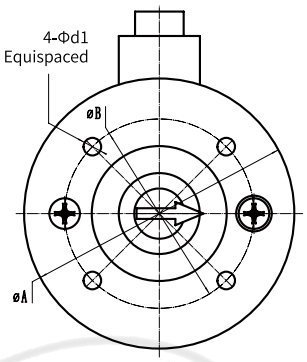
Parameters Table			
Range	0-200kN	Material quality	Alloy Steel
Output sensitivity	1.5±0.05mV/V	Impedance	350/700Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15v
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.3%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ф5x3m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

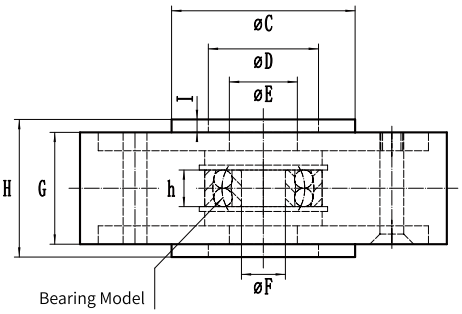
Wirerope Tension (kN)	Range (T)	Wirerope Diameter	A	B	C	D
10	1	Φ6-14	160	76	117	45
20	2	Φ10-18	160	76	117	45
50	5-10	Φ16-26	160	76	117	45
100-200kN	10T-14	Φ24-36	260	108	170	68

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DYZL-105 Tension sensor







Product Reviews

Characteristic

The working principle is to calculate the tension value by measuring the pressure. High reliability, good interchangeability, easy to use, suitable for the measurement and control of steel wire rope tension.

Application Area

- Suitable for the measurement and control of the wire rope tension

Parameters Table

Range	3000kg	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	0.02%F.S./10℃	Cable line specifications	Φ5x3m
Xero point temperature drift	0.02%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	

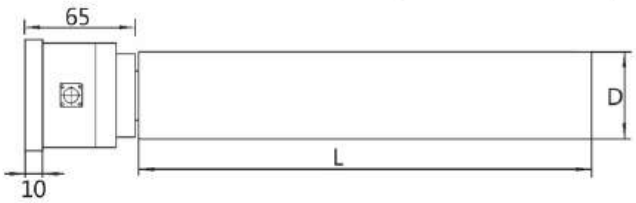
Range (kg)	A	B	C	D	E	F	G	H	J	K
10	100	60	22	17	75	6.5	90	36.5	16	3
15	105	60	22	17	75	6.5	90	36.5	16	3
25	105	60	22	17	75	6.5	90	36.5	16	3
50	105	60	22	17	75	6.5	90	36.5	16	3
75	125	70	31	25	95	6.5	100	47.5	18	4
100	125	70	31	25	95	6.5	100	47.5	18	4
150	175	100	44	35	135	8.5	125	65	23	4
300	175	100	44	35	135	8.5	125	65	23	4
500	265	160	80	65	220	10.5	170	80	33	4
1000	265	160	80	65	220	10.5	170	80	33	4
2000	265	160	80	65	220	10.5	170	80	33	4
3000	265	160	80	65	220	10.5	170	80	33	4

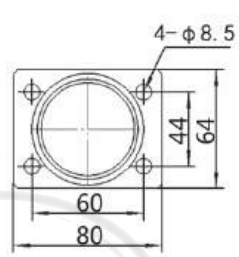
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DYZL-106 Tension sensor









D (Roller diameter): 40-65mm
L (Roll length): 50-400mm

Product Reviews

Characteristic

The cantilever beam tension sensor is designed for the unilateral frame machine, and is applied in the flow extension film machine, textile, wire rod, and other industries. Enough to detect small changes in tension, and provide excellent resolution and sensitivity, its performance in industrial applications is very outstanding.

Application Area

- Tension sensor is an instrument for measuring the size of coil tension value, which is usually used in the industrial field.
- They can be used in pharmaceutical, textile, printing, packaging and other industries.

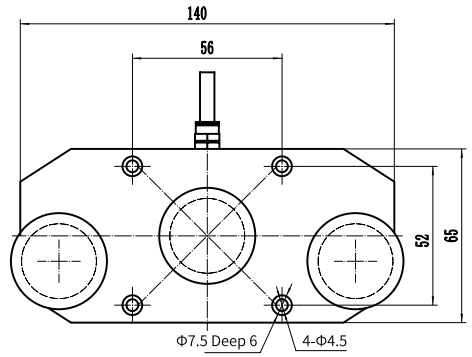
Parameters Table			
Range	20-300N	Material quality	Alufer
Output sensitivity	2.0±0.1%mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15v
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%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	

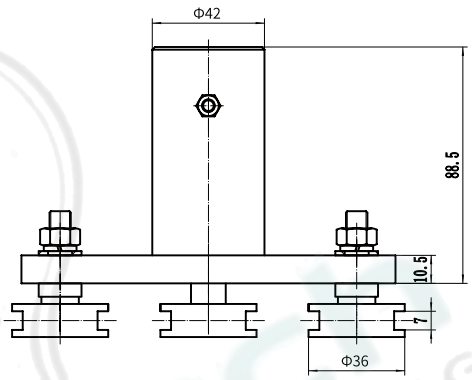
Range (N)					
20	50	75	100	200	300

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DYZL-107 Tension sensor







Product Reviews

Characteristic

The working principle is to calculate the tension value by measuring the pressure. High reliability, good interchangeability, easy to use, suitable for the measurement and control of steel wire rope tension.

Application Area

- Suitable for the measurement and control of the wire rope tension

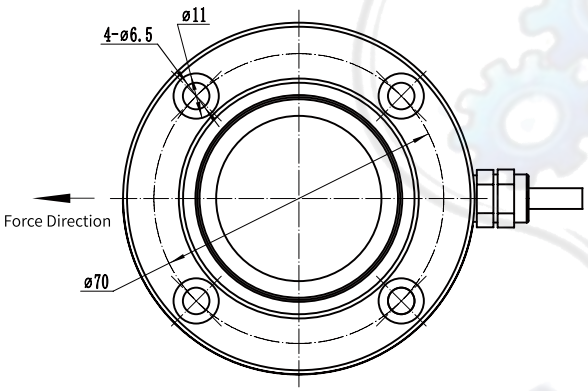
Parameters Table			
Range	0-100kg	Material quality	Stainless Steel / Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%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	

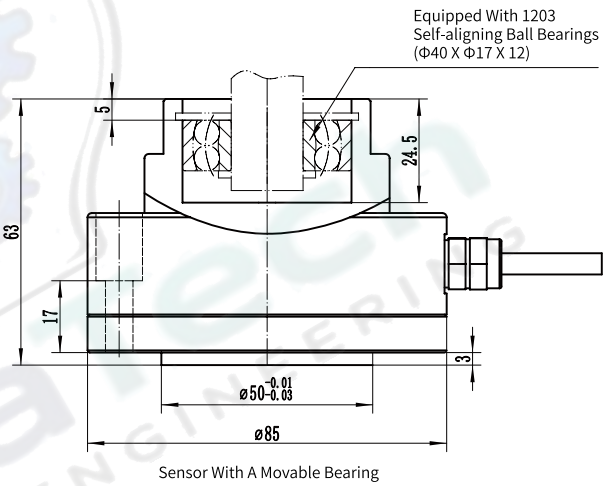
Range (kg)						
2	5	10	20	30	50	100

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DYZL-108 Tension sensor





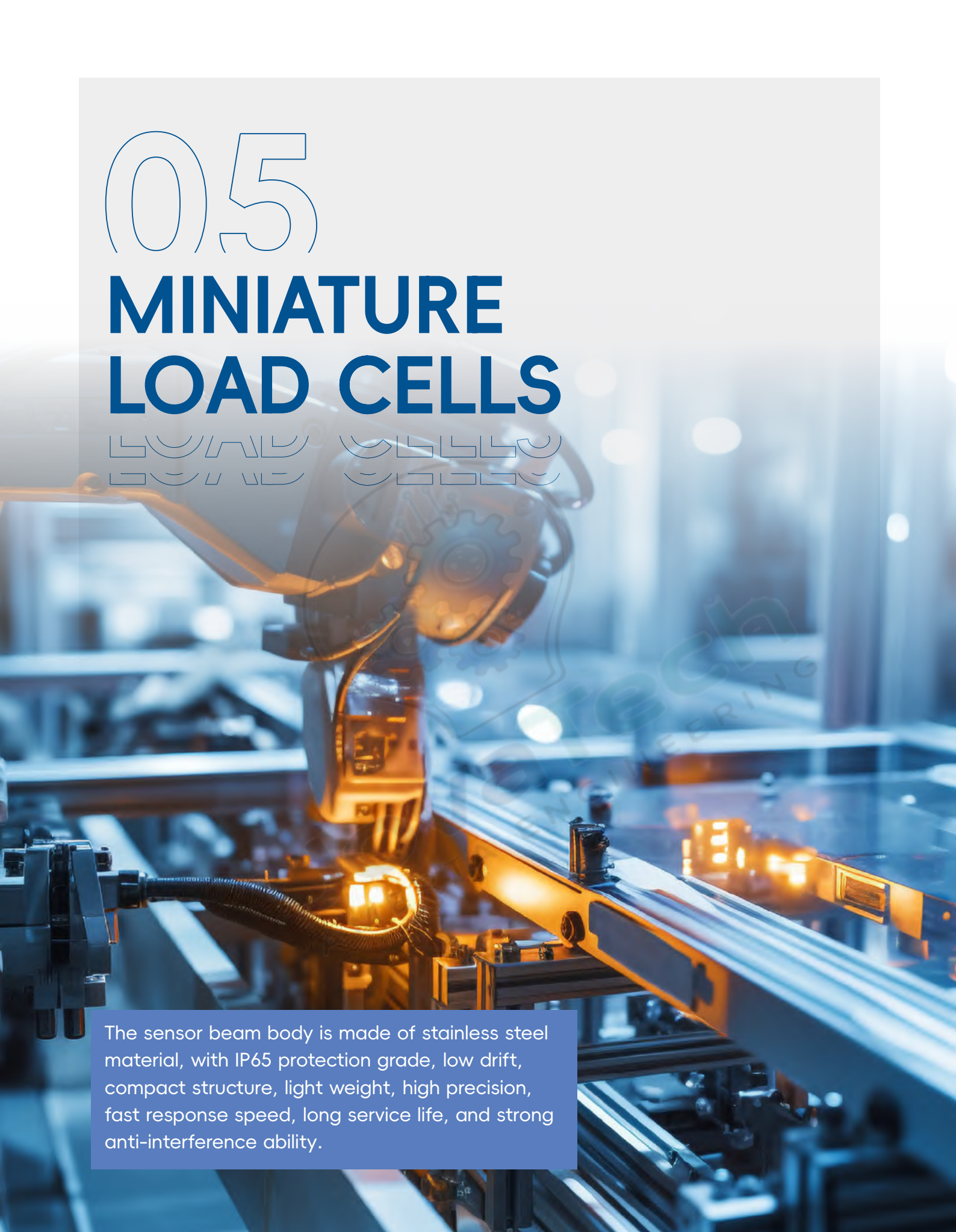


Sensor With A Movable Bearing

Parameters Table			
Range	0-50kg	Material quality	Alloy Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±1%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℃
Repeatability	0.3F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	300%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ5.5x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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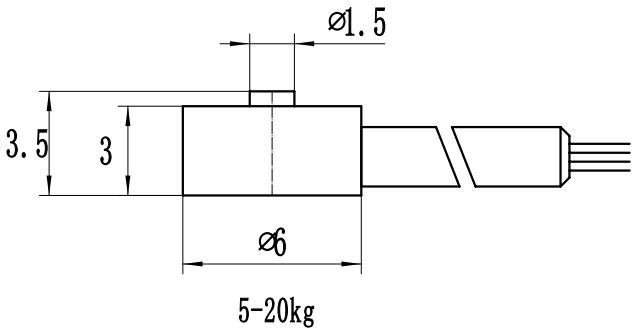
05
MINIATURE LOAD CELLS



The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

DYHW-106 Miniature load cells





Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

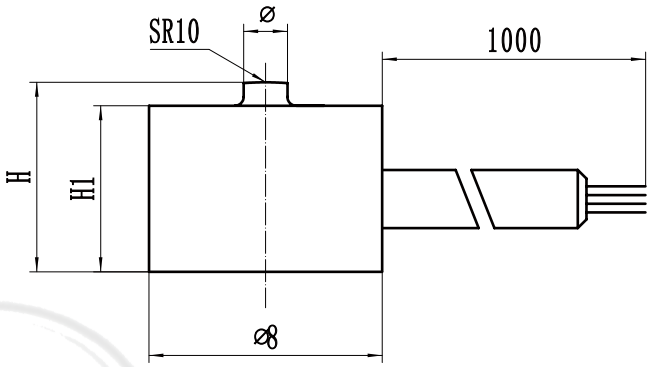
Parameters Table			
Range	5-20kg	Material quality	Stainless Steel
Output sensitivity	1.0-1.5mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10v
Hysteresis	0.3%F.S.	Operating temperature range	-20-80°C
Repeatability	0.3%F.S.	Safe overload	120%
Creep (30 min)	0.2%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.5%F.S./10°C	Cable line specifications	ϕ2x1m
Xero point temperature drift	0.5%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

Model	Range (kg)	Φ	H	H1
DYHW-106-H6.5	5-20	1.5	6.5	5.5
	50-100	2.5	6.5	5.5
DYHW-106-H3.5	3-10	1.5	3.5	3
	20-30	2	3.5	3

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DYHW-108 Miniature load cells





Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

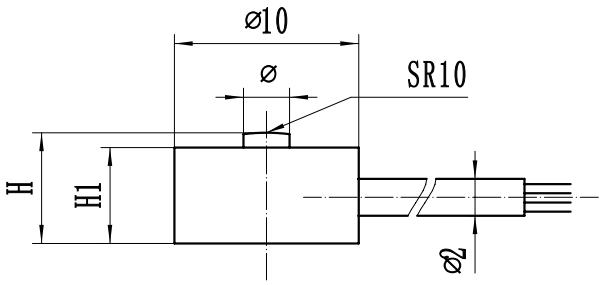
Parameters Table			
Range	1-100kg	Material quality	Stainless Steel
Output sensitivity	3-5kg:0.5-1.0mV/V 10-100kg:1.0-1.5mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10v
Hysteresis	0.3%F.S.	Operating temperature range	-20-80℃
Repeatability	0.3%F.S.	Safe overload	120%
Creep (30 min)	0.2%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.5%F.S./10℃	Cable line specifications	ф2x1m
Xero point temperature drift	0.5%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

Model	Range (kg)	Φ	H	H1
DYHW-108-H6.5	3-30	1.5	6.5	5.5
	50-100	2.5	6.5	5.5
DYHW-108-H3.5	3-10	1.5	3.5	3
	20-30	2	3.5	3

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DYHW-110 Miniature load cells







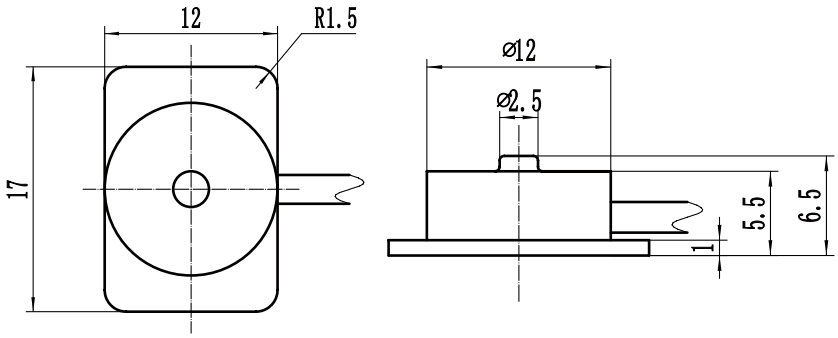
Parameters Table			
Range	1-100kg	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350/500Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10v
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.3%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.5%F.S./10°C	Cable line specifications	ф2x1m
Xero point temperature drift	0.5%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

Model	Range (kg)	Φ	H	H1
DYHW-110-H6	3-10	1.5	6	5.2
	20-30	2	6	5.2
	50-100	2.5	6	5.5
DYHW-110-H3.5	3-10	1.5	3.5	3
	20-30	2.5	3.5	3

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DYHW-112 Miniature load cells





Product Reviews

Characteristic

Low height, large contact area, reasonable design structure, high comprehensive precision, convenient installation. Cover large range.

Application Area

It is mainly used in electronic weighing equipment and testing equipment with large force area, such as:

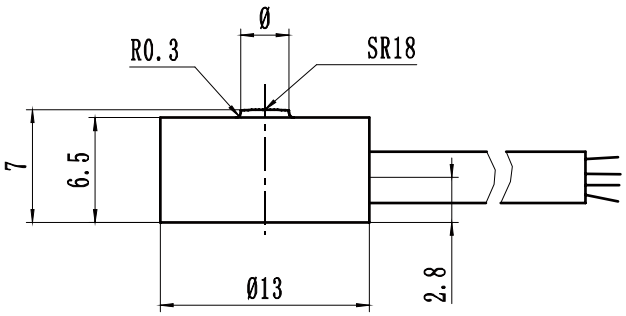
- Pressure Equipment
- Hydraulic Press
- Small Pressure Platform
- Tester
- Pressure Installed Capacity
- Hydraulic Press
- Cold Hot Press
- Electronic Load Weighing Scale

Parameters Table			
Range	50-500N	Material quality	Stainless Steel
Output sensitivity	1.0±15%mV/V	Impedance	800-1100Ω
Zero point output	±0.03mV/V	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10V DC
Hysteresis	0.2%F.S.	Operating temperature range	-20-80°C
Repeatability	0.2%F.S.	Safe overload	120%
Creep (30 min)	0.2%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ф2x3000mm
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	1kHz	TEDS	Selectable

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DYHW-113 Miniature load cells





Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

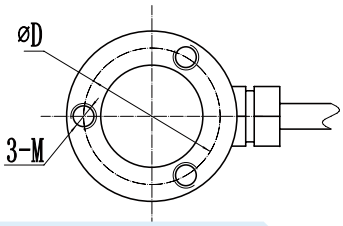
Parameters Table			
Range	0-200kg	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	500/1000Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10v
Hysteresis	0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	0.3%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.5%F.S./10℃	Cable line specifications	ф2x1m
Xero point temperature drift	0.5%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

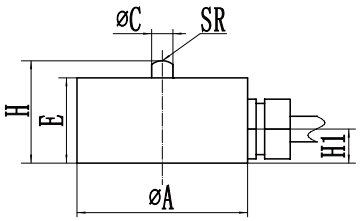
Range (kg)	Φ
5-20	Φ-2
30-200	Φ-3

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DYHW-116 Miniature load cells

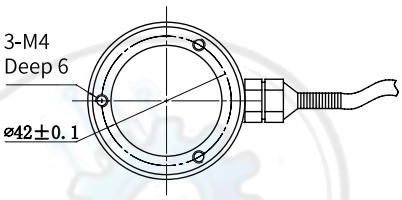


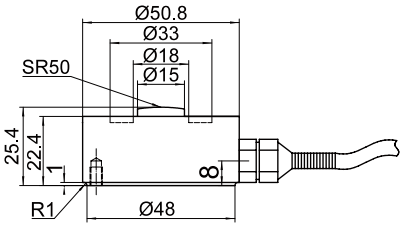




Range: 3kg-5T







Range: 0-10T





Parameters Table			
Range	0-10T	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	700/1000Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-10v
Hysteresis	0.3%F.S.	Operating temperature range	-20-80℃
Repeatability	0.3%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.3%F.S./10℃	Cable line specifications	ф3x2m ф5x2m（10t）
Xero point temperature drift	0.3%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

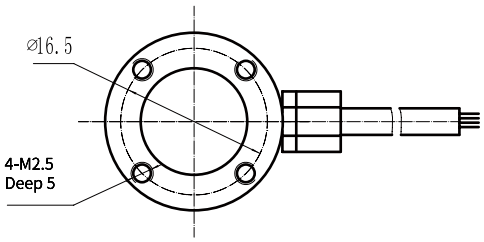
Range	ΦA	ΦC	ΦD	H	E	M	H1	SR
3-200kg	20	2.5	15.5	12	10	M3	4	2
300-500kg	26	5	18.5	15	11. 5	M4	5	6
1-2T	26	5	18.5	15	12.5	M4	5.5	20
3-5T	37.7	10.8	31	15.5	14	M2.5	4	50

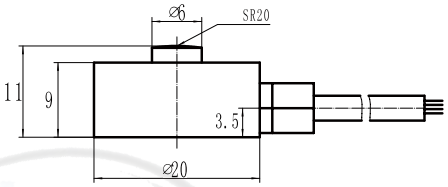
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DYHW-120 Miniature load cells

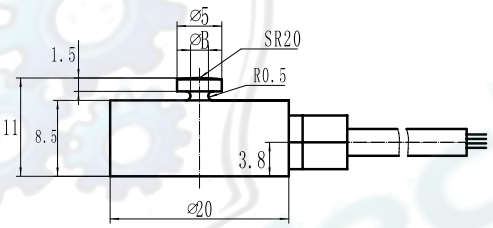








Range (kg)	500-1000
D	3.8



Range (kg)	5	10-50	100-200
B	2	2.5	3

Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

Parameters Table			
Range	0-2000kg	Material quality	Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	1000Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-10v
Hysteresis	0.3%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.3%F.S./10°C	Cable line specifications	ф3x2m
Xero point temperature drift	0.3%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

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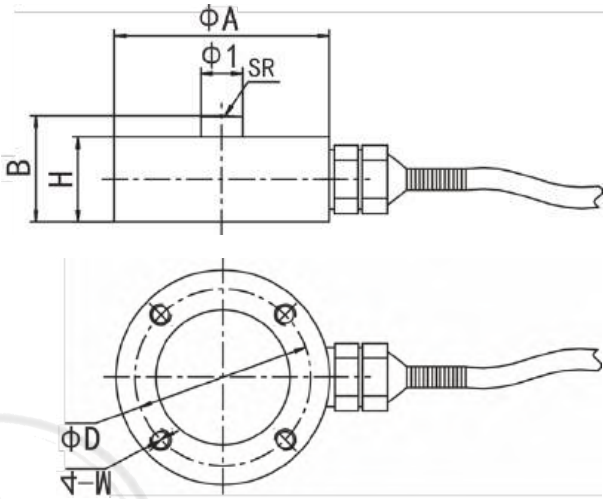
CAPSULE TYPE LOAD CELLS



The structure of the capsule type load cells is characterized by the central convex point, which is easy to concentrate the force.

DYMH-101 Capsule type load cells





Product Reviews

Characteristic

The structure of the membrane box weighing sensor is characterized by the central convex point, which is easy to concentrate the force. Usually, the force points are mostly arc surface design, in order to better stress concentration, so they are often used in plane and convex point contact. It may also be installed by direct screw fixation.

Application Area

- The Car Scale
- Rail Weighbridge
- Platform Weighing Scale
- Material Warehouse Scale
- Crane
- Pressure testing machine and other electronic weighing field.

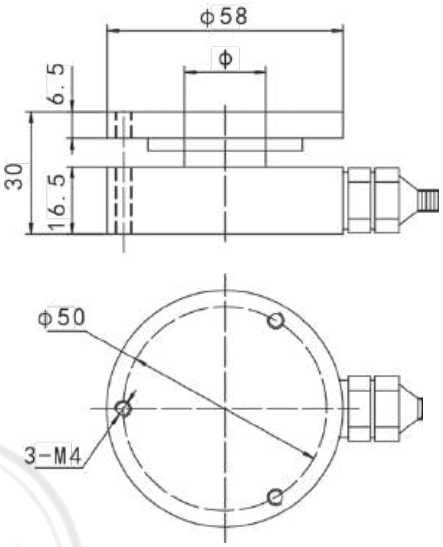
Parameters Table			
Range	50kg-15T	Material quality	Alloy Steel
Output sensitivity	1.0-2.0±0.01mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15v
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range	ΦA	B	H	Φ1	ΦD	4-M	SR
50kg-5T	51	25	20	10	42	M5	SR50
6-15T	88	47	42	18	72	M6	SR150

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DYMH-102 Capsule type load cells





Product Reviews

Characteristic

The structure of the membrane box weighing sensor is characterized by the central convex point, which is easy to concentrate the force. Usually, the force points are mostly arc surface design, in order to better stress concentration, so they are often used in plane and convex point contact. It may also be installed by direct screw fixation.

Application Area

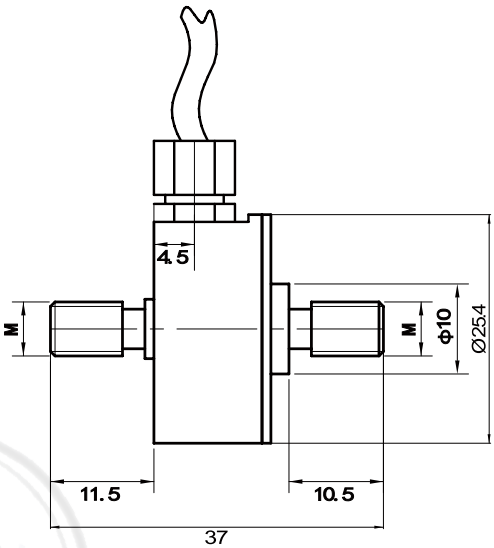
- The Car Scale
- Rail Weighbridge
- Platform Weighing Scale
- Material Warehouse Scale
- Crane
- Pressure testing machine and other electronic weighing field.

Parameters Table			
Range	50kg-10T	Material quality	Alloy Steel
Output sensitivity	1.0-2.0±0.05mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range	Φ
50kg 100kg 200kg 300kg 500kg	10
1T 2T 3T 5T 10T	20

DYMH-103 Capsule type load cells





Product Reviews

Characteristic

This section can be installed with screws. Installation needs to pay attention to the central displacement deformation of the sensor, do the use of tensile sensor, it is best to soft connection, can be used with universal joint connection, do pressure sensor, can be fixed (generally in the fixed end, deformation end force), fixed attention to the planarity and the verticality of the force axis.

Application Area

- Aging test stand for 3C digital products
- Production line force testing
- Force value monitoring of the automatic assembly line
- Pressure testing machine and other automation fields

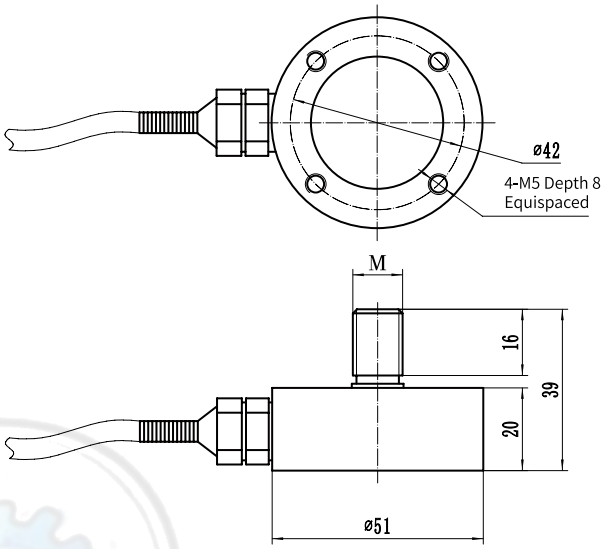
Parameters Table			
Range	0-500kg	Material quality	Alloy Steel
Output sensitivity	1.0-1.5±10%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	0-10v
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.2%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ϕ3x2m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)	ΦA
1- 50	M5
60-100	M6
200-500	M8

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DYMH-104 Capsule type load cells





Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

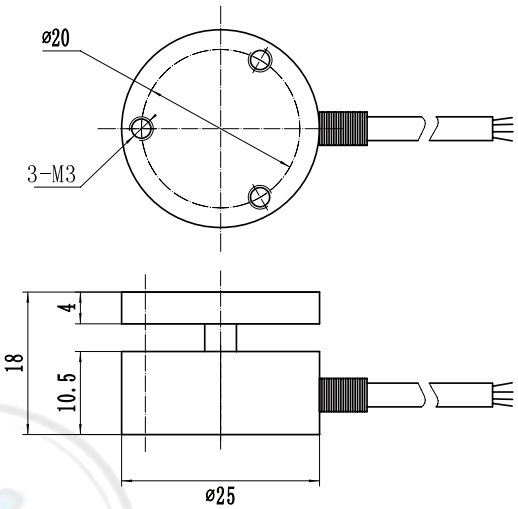
Parameters Table			
Range	0-5T	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	700Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-65℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10℃	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)	M
20-2000	M12
3000-5000	M16

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DYMH-105 Capsule type load cells





Product Reviews

Characteristic

The structure of the membrane box weighing sensor is characterized by the central convex point, which is easy to concentrate the force. Usually, the force points are mostly arc surface design, in order to better stress concentration, so they are often used in plane and convex point contact. It may also be installed by direct screw fixation.

Application Area

- The Car Scale
- Rail Weighbridge
- Platform Weighing Scale
- Material Warehouse Scale
- Crane
- Pressure testing machine and other electronic weighing field

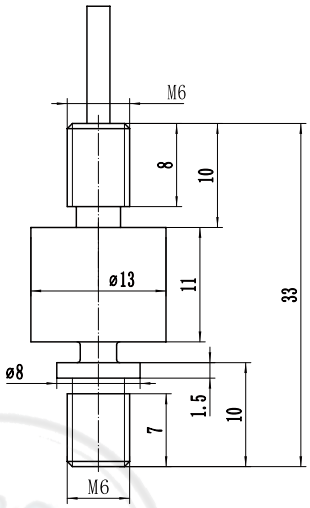
Parameters Table			
Range	0-2T	Material quality	Alloy Steel
Output sensitivity	1.0-2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10V
Hysteresis	0.3%F.S.	Operating temperature range	-20-80°C
Repeatability	0.3%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ϕ3x2m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)								
20	30	50	100	200	300	500	1000	2000

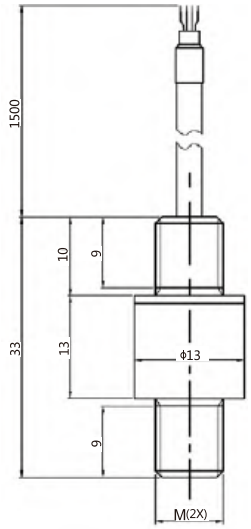
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DYMH-106 Capsule type load cells





10-100kg



200-500kg

Product Reviews

Characteristic

The structure of the membrane box weighing sensor is characterized by the central convex point, which is easy to concentrate the force. Usually, the force points are mostly arc surface design, in order to better stress concentration, so they are often used in plane and convex point contact. It may also be installed by direct screw fixation.

Application Area

- The Car Scale
- Rail Weighbridge
- Platform Weighing Scale
- Material Warehouse Scale
- Crane
- Pressure testing machine and other electronic weighing field

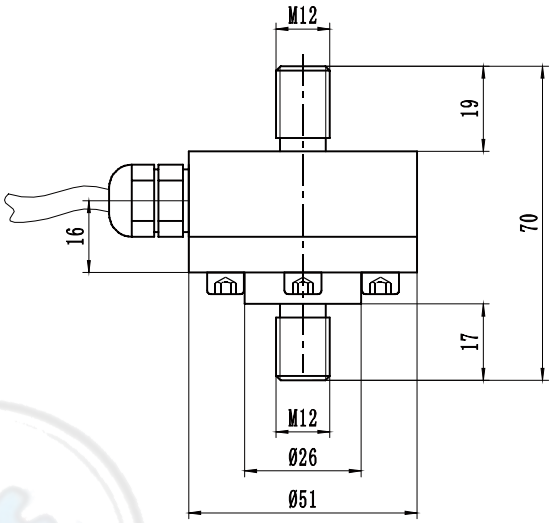
Parameters Table			
Range	0-500kg	Material quality	Stainless Steel
Output sensitivity	1.0±20%mV/V	Impedance	350/500/1000Ω
Zero point output	±5%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	1%F.S.	Service voltage	5-10V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.5%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.2%F.S./10°C	Cable line specifications	ϕ2x2m
Xero point temperature drift	0.2%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)	M	Cable Line	Weight (kg)
10/15/20/30/50/100	M6	Φ2	0.1
200/300/400/500	M8	Φ2	0.1

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DYMH-107 Capsule type load cells





Product Reviews

Characteristic

This section can be installed with screws. Installation needs to pay attention to the central displacement deformation of the sensor, do the use of tensile sensor, it is best to soft connection, can be used with universal joint connection, do pressure sensor, can be fixed (generally in the fixed end, deformation end force), fixed attention to the planarity and the verticality of the force axis.

Application Area

- Aging test stand for 3C digital products
- Production line force testing
- Force value monitoring of the automatic assembly line
- Pressure testing machine and other automation fields

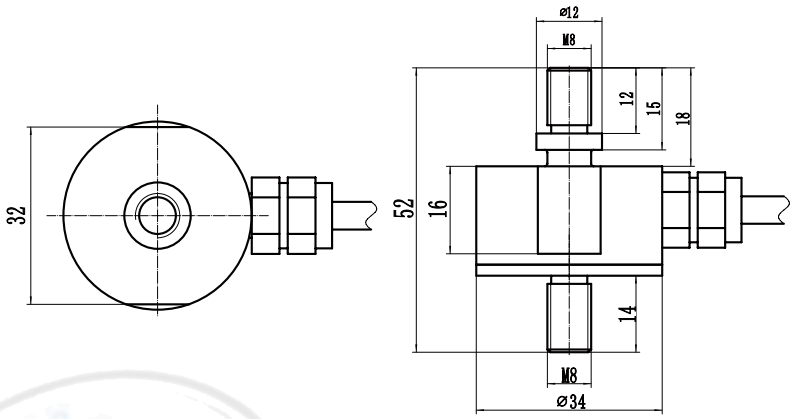
Parameters Table			
Range	0-20kN	Material quality	Stainless Steel
Output sensitivity	1.5-2.0mV/V	Impedance	350/700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-65°C
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kN)						
0.5	1	2	3	5	10	20

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DYMH-108 Capsule type load cells





Product Reviews

Characteristic

Low height, large contact area, reasonable design structure, high comprehensive precision, convenient installation. Cover large range.

Application Area

It is mainly used in electronic weighing equipment and testing equipment with large force area, such as:

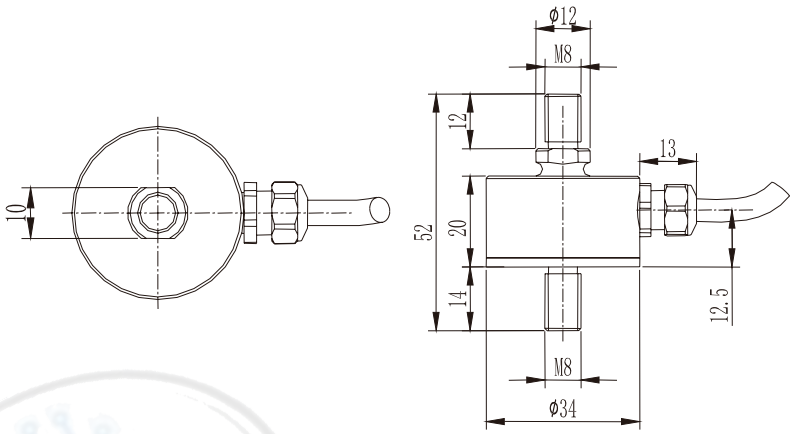
- Pressure Equipment
- Hydraulic Press
- Small Pressure Platform
- Tester
- Pressure Installed Capacity
- Hydraulic Press
- Cold Hot Press
- Electronic Load Weighing Scale

Parameters Table			
Range	0-1000kg	Material quality	Stainless Steel
Output sensitivity	1.5-2.0mV/V	Impedance	700Ω
Zero point output	±2mV/V	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.5%F.S.	Safe overload	120%
Creep (30 min)	0.05%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ϕ4x3m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	1kHz	TEDS	Selectable

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DYMH-108D Capsule type load cells





Product Reviews

Characteristic

Micro sensor, low height, low deformation, dynamic response frequency, high stainless steel material, pull-press bidirectional.

Application Area

- The car pressure
- 3C product testing
- New energy assembly
- Medical testing
- Robot field
- Mold assembly and other automation fields

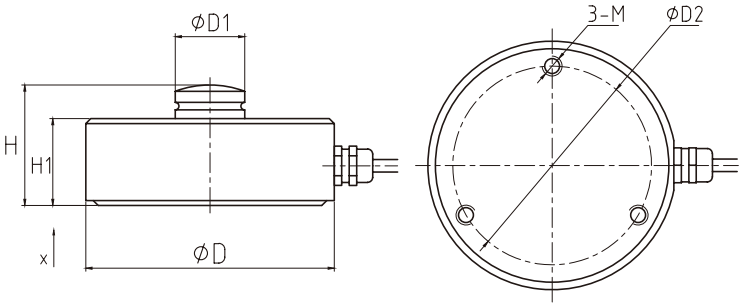
Parameters Table			
Range	0-5kN	Material quality	Stainless Steel
Output sensitivity	1.5±10%mV/V	Impedance	700Ω
Zero point output	±0.05%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.2%F.S.	Service voltage	5-10V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ϕ4x3m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	1kHz	TEDS	

Range (kN)						
0.5	1	2	3	5	10	20

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DYMH-109 Capsule type load cells





Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

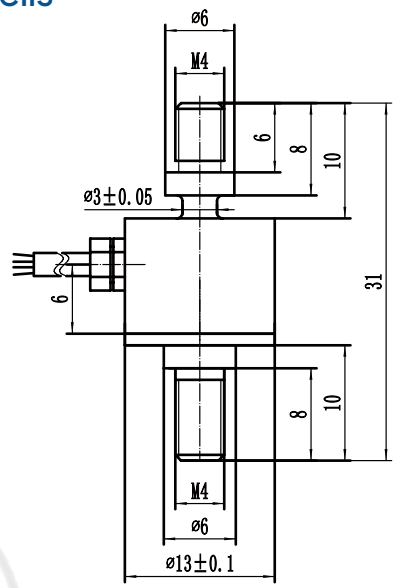
Parameters Table			
Range	2.5-20T	Material quality	Stainless Steel
Output sensitivity	2.0mV/V	Input Resistance	700Ω
Zero point output	±0.1%F.S.	Output Resistance	350±10Ω
Nolinear	±0.5%F.S.	Insulation resistance	≥5000MΩ/100VDC
Hysteresis	±0.5%F.S.	Service voltage	5-15v
Repeatability	±0.5%F.S.	Operating temperature range	-20-65℃
Creep (30 min)	±0.5%F.S.	Safe overload	150%
Temperature sensitivity drift	±0.5%F.S./10℃	Extreme overload	300%
Xero point temperature drift	±0.5%F.S./10℃	Cable line specifications	Φ5x2m
Response frequency	10kHz	Cable limit tension	10kg

Range (T)	ΦD	ΦD1	ΦD2	H	H1	M
2.5-10	82	22	65	44	32	M6x1.0
15-20	100	28	80	48.5	35	M8x1.25

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DYMH-113 Capsule type load cells





Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

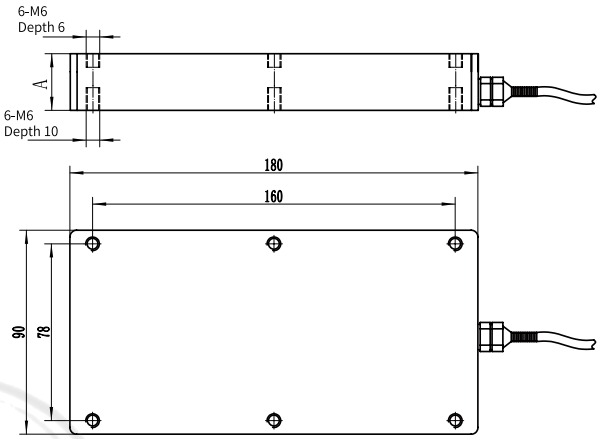
Parameters Table			
Range	0-50kg	Material quality	Stainless Steel
Output sensitivity	1.0±10%mV/V	Impedance	500Ω
Zero point output	±0.05%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-70°C
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.2%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.2%F.S./10°C	Cable line specifications	ф2x2m
Xero point temperature drift	0.2%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)				
10	15	20	30	50

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DYPB-001 Capsule type load cells





Product Reviews

Characteristic

Low height, large contact area, high comprehensive precision, easy to installation. Different scales and sizes can be customized.

Application Area

It is mainly used in electronic weighing equipment and pull pressure detection equipment with large pressure area, such as:

- Pressure equipment
- Mobile phone assembly
- Small pressure platform
- tester
- Pressure installed capacity
- hydraulic press
- Cold hot press
- Electronic hook scale, hopper scale, etc

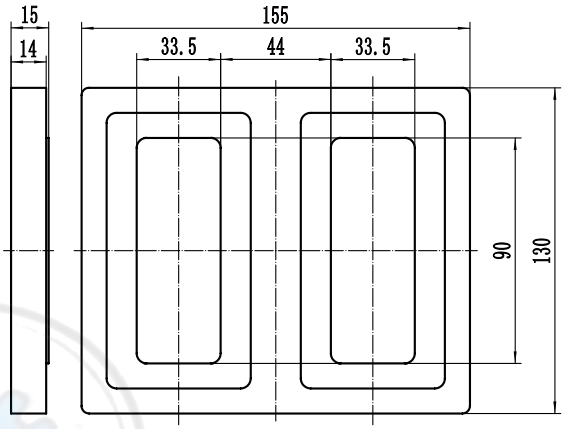
Parameters Table			
Range	1-5T	Material quality	Alloy Steel
Output sensitivity	1.5-2.0mV/V	Impedance	750±20Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10℃	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.3%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (T)	A
1-3	25
5-10	35

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DYPB-002 Capsule type load cells





Product Reviews

Characteristic

Low height, large contact area, high comprehensive precision, easy to installation.
Different scales and sizes can be customized.

Application Area

It is mainly used in electronic weighing equipment and pull pressure detection equipment with large pressure area, such as:

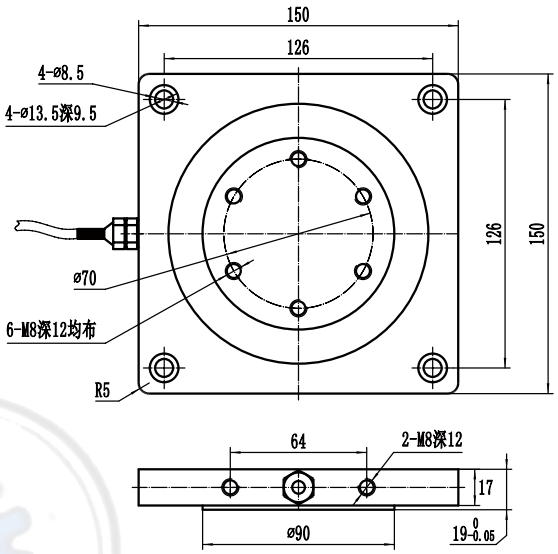
- Pressure equipment
- Mobile phone assembly
- Small pressure platform
- tester
- Pressure installed capacity
- hydraulic press
- Cold hot press
- Electronic hook scale, hopper scale, etc

Parameters Table			
Range	1-3T	Material quality	Alloy Steel
Output sensitivity	1.5-2.0mV/V	Impedance	750±20Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.3%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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DYPB-003 Capsule type load cells





Product Reviews

Characteristic

Low height, large contact area, high comprehensive precision, easy to installation. Different scales and sizes can be customized.

Application Area

It is mainly used in electronic weighing equipment and pull pressure detection equipment with large pressure area, such as:

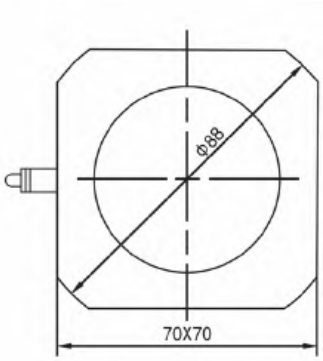
- Pressure equipment
- Mobile phone assembly
- Small pressure platform
- tester
- Pressure installed capacity
- hydraulic press
- Cold hot press
- Electronic hook scale, hopper scale, etc

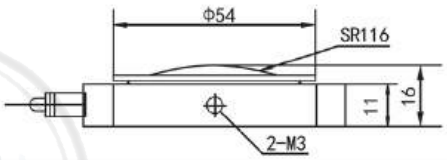
Parameters Table			
Range	1-5T	Material quality	Alloy Steel
Output sensitivity	1.5-2.0mV/V	Impedance	750±20Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.3%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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DYTB-001 Capsule type load cells







Product Reviews

Characteristic

The sensor beam body is made of stainless steel material, with IP65 protection grade, low drift, compact structure, light weight, high precision, fast response speed, long service life, and strong anti-interference ability.

Application Area

Measurement and control of the force

- Measurement And Control Of The Force
- Automation Equipment
- Age Tester
- Key Force Analysis
- Power Device

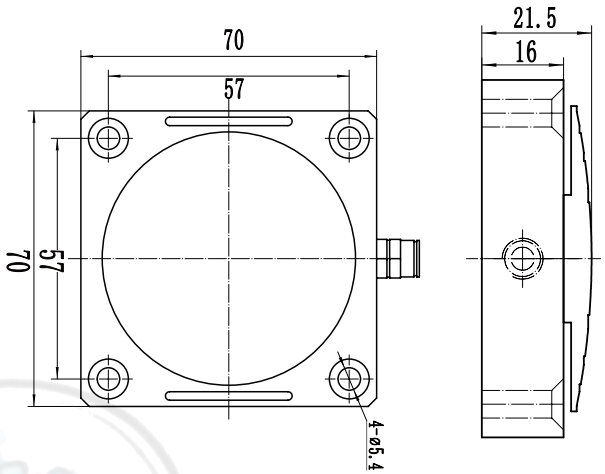
Parameters Table			
Range	1-200kg	Material quality	Alloy Steel / Stainless Steel / Aluminum Alloy
Output sensitivity	1.0-1.5mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-10v
Hysteresis	0.3%F.S.	Operating temperature range	-20-70℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.3%F.S./10℃	Cable line specifications	Φ3x2m
Xero point temperature drift	0.3%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

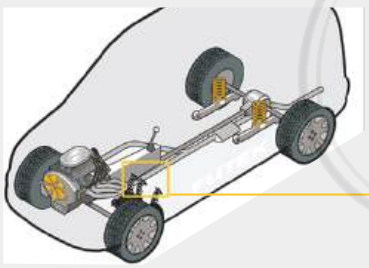
Range (kg)		
50	100	200

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DYTB-002 Capsule type load cells











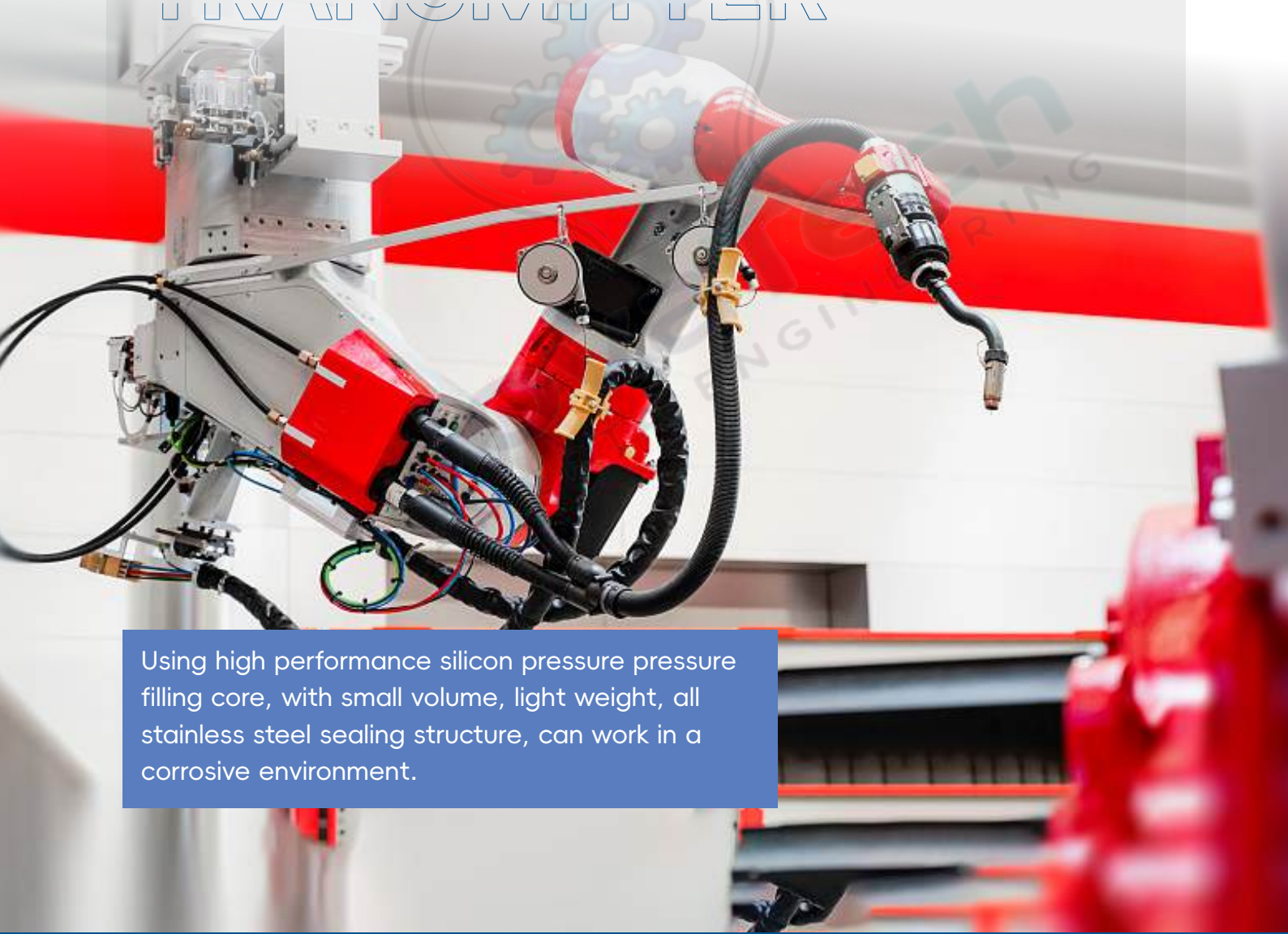
Parameters Table			
Range	1-200kg	Material quality	Alloy Steel / Stainless Steel / Aluminum Alloy
Output sensitivity	1.0-1.5mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-10v
Hysteresis	0.3%F.S.	Operating temperature range	-20-70℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.3%F.S./10℃	Cable line specifications	ϕ3x2m
Xero point temperature drift	0.3%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	Selectable

Range (kg)		
50	100	200

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07

DIFFUSED SILICON PRESSURE TRANSMITTER



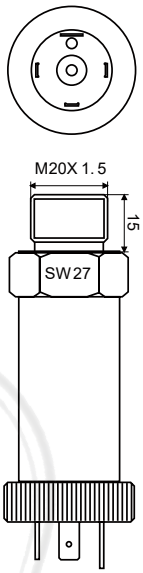
Using high performance silicon pressure pressure filling core, with small volume, light weight, all stainless steel sealing structure, can work in a corrosive environment.

DYPT-603 Diffused silicon pressure transmitter

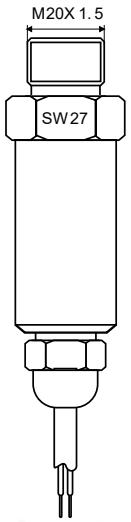




Constant Pressure Water Supply



Hesman Joint Shape



Direct Lead

Product Reviews

Characteristic

Using high performance silicon pressure pressure filling core, with small volume, light weight, all stainless steel sealing structure, can work in a corrosive environment.

Application Area

The dedicated integrated circuit converts the sensor millivolt signal into the standard voltage, current or frequency signal, which can be directly connected to the computer interface card, control instrument, intelligent instrument or PLC.

- process control
- aviation
- space flight
- automobile
- armamentarium
- HVAC and other fields

Parameters Table			
Power supply	24VDC	Comprehensive Accuracy	Level 0.5 (default), 0.3
output signal	4~20mA 1~5V 0~10V RS485	Zero Temperature Drift	±0.15%FS/℃
Measuring range	-0.1-60Mpa	Sensitivity Temperature Drift	±0.15%FS/℃
Compensation temperature	-10~70℃	Overload Pressure	150%FS
Medium temperature	-20~85℃	Long Term Stability	± 0.2%FS / year
working temperature	-20~85℃	Response Time	100MS (up to 90%FS)
Enclosure protection	IP65	Natural Frequency	40k Hz
Measuring medium	Gas, Liquid, Water	Pressure type	Gage pressure Absolute pressure Sealed pressure

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DYPT-603 Diffused silicon pressure transmitter



3mm Pressure Hole

The 3mm diameter lead pressure hole can effectively reduce the impact of the instantaneous pressure on the internal diaphragm, which is reliable and can guarantee the sensitivity.



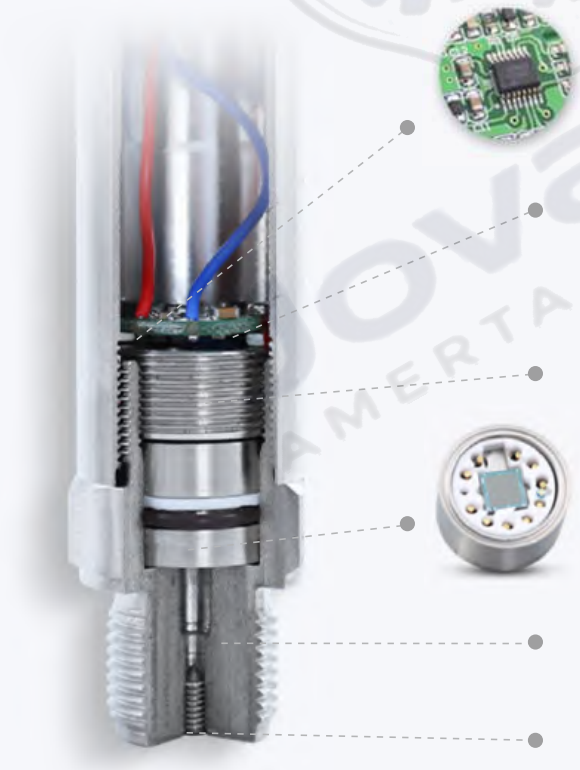
Diffusion Silicon Chip

Diffusion silicon chip purchased from Germany can withstand 2000Hz field vibration interference and can withstand instantaneous 2 times overload range pressure impact.



Omal Connect

The Italian Omal connector will greatly improve the waterproof and dustproof performance, and meet the application requirements of IP65 waterproof grade.



High-performance digital integrated circuit, strong anti-interference, high output accuracy.

The 24-bit ADC digital acquisition circuit, the 16-bit DAC output, to ensure the accurate output of the circuit signals.

Fastening pressure ring.

Using FirstSensor silicon chip, accurate and reliable, stable and durable.

High quality 304 stainless steel precision connection workpiece.

Damper resistance cushioning design, can resist instantaneous 2-3 times the pressure impact.

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08

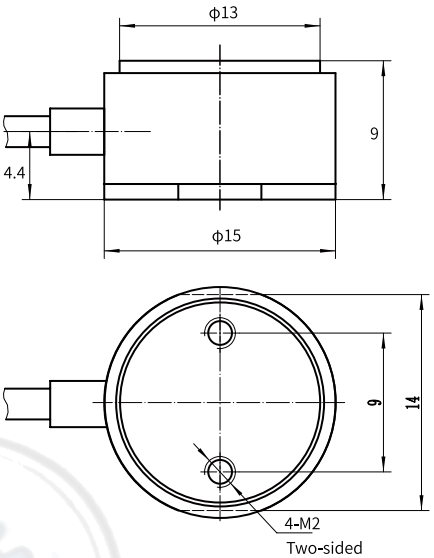
COLUMN TYPE LOAD CELLS



Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

DYZ-100 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

- This small size is suitable for the production and testing stages of 3C digital products.
- Traditional column sensors are widely used in various rail weighing scale, hopper scale, platform scale and other electronic weighing equipment.

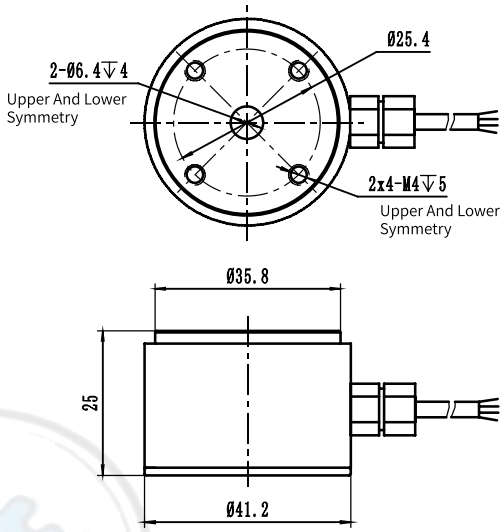
Parameters Table			
Range	0-500N	Material quality	Stainless Steel
Output sensitivity	2.0±0.05%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-10V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80℃
Repeatability	0.05%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ3x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (N)					
10	15	20	30	50	100

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DYZ-101 Column type load cells





Product Reviews

Characteristic

Low height, large contact area, high comprehensive precision, easy to installation.
Different scales and sizes can be customized.

Application Area

It is mainly used in electronic weighing equipment and pull pressure detection equipment with large pressure area, such as:

- Pressure equipment
- Mobile phone assembly
- Small pressure platform
- tester
- Pressure installed capacity
- hydraulic press
- Cold hot press
- Electronic hook scale, hopper scale, etc

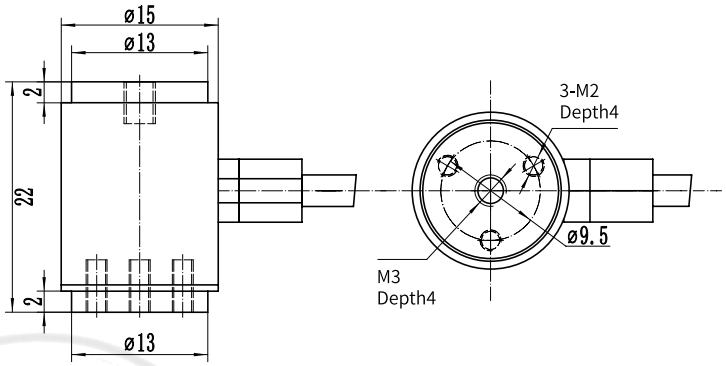
Parameters Table			
Range	0-2000kg	Material quality	Stainless Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-10V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80°C
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10°C	Cable line specifications	ф3x2m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)							
1	2	3	5	10	20	30	50
100	200	300	500	1000	2000	5000	

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DYZ-102 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

- This small size is suitable for the production and testing stages of 3C digital products.
- Traditional column sensors are widely used in various rail weighing scale, hopper scale, platform scale and other electronic weighing equipment.

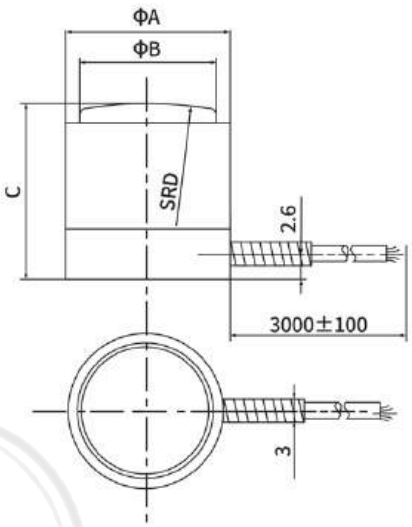
Parameters Table			
Range	0-50kg	Material quality	Stainless Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.2%F.S.	Service voltage	5-10V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ф2x2m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)				
10	15	20	30	50

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DYZ-103 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

- This small size is suitable for the production and testing stages of 3C digital products.
- Traditional column sensors are widely used in various rail weighing scale, hopper scale, platform scale and other electronic weighing equipment.

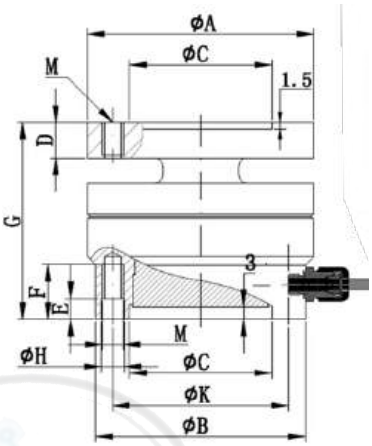
Parameters Table			
Range	0-150kN	Material quality	Stainless Steel
Output sensitivity	1.0-1.5mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ2x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

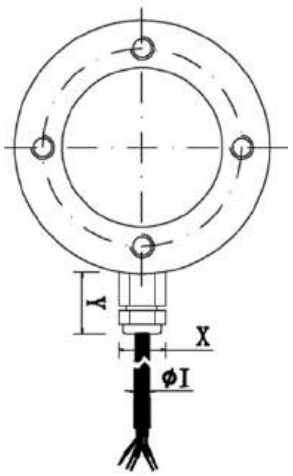
Range (kN)	A	B	C	D
10/20	16	14	15	50
50/75	22.4	20.4	22.4	100
100/150	31.8	28.9	28.7	125

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DYZ-104 Column type load cells







Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

- Rail Weighbridge
- The Bucket Scale
- Platform Scale And Other Electronic Weighing Equipment

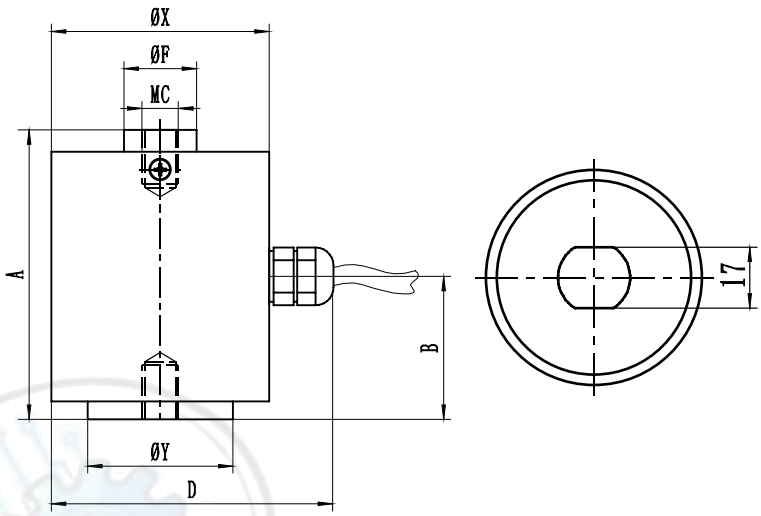
Parameters Table			
Range	0-100kN	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kN)	A	B	C	D	E	F	G	H	K	X	Y	I	J	Z	M
0.5-10	54	50	34	8.5	5	13	47	5.5	42	10	13	3	8	9	8-M5
20-100	95	90	55	15	5.5	20	72	11	70	15.7	14	5	10.5	14	10-M10

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DYZ-105 Column type load cells





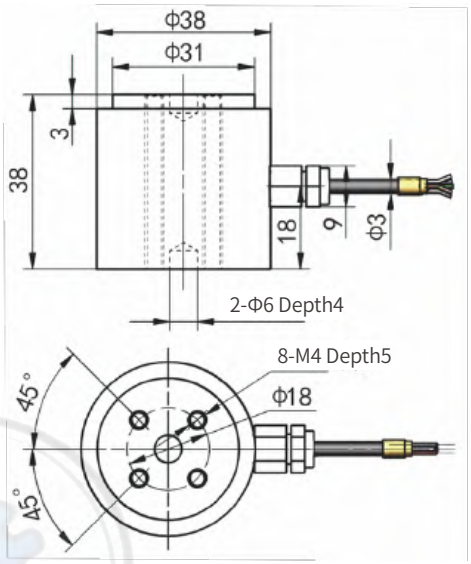
Parameters Table			
Range	0-3000kg	Material quality	Stainless Steel
Output sensitivity	1.5-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-65°C
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ф5x2m
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	X	Y
50-500	80	37.5	M10x1.5-6H	74	20	17	60	40
1000-3000	120	45	M20x1.5-6H	74	36	30	60	40

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DYZ-106 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

- This small size is suitable for the production and testing stages of 3C digital products.
- Traditional column sensors are widely used in various rail weighing scale, hopper scale, platform scale and other electronic weighing equipment.

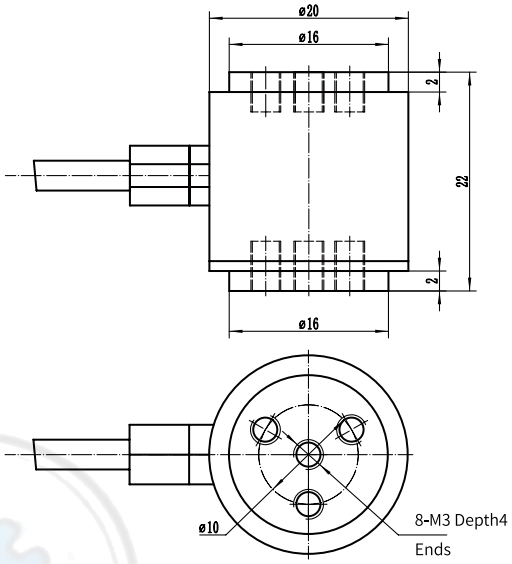
Parameters Table			
Range	0-50kN	Material quality	Alufer
Output sensitivity	2.0±10%mV/V	Impedance	350/700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	φ3x2m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kN)					
3	5	10	20	30	50

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DYZ-107 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

- This small size is suitable for the production and testing stages of 3C digital products.
- Traditional column sensors are widely used in various rail weighing scale, hopper scale, platform scale and other electronic weighing equipment.

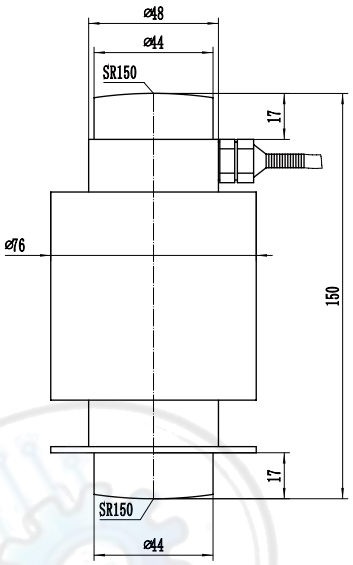
Parameters Table			
Range	0-200kg	Material quality	Stainless Steel
Output sensitivity	2.0±10%mV/V	Impedance	350/700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	10-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ф3x2m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

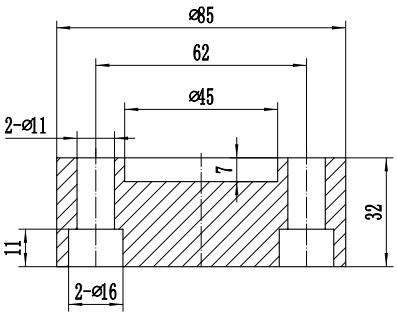
Range (KN)						
5	10	20	30	50	100	200

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DYZ-108 Column type load cells







Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

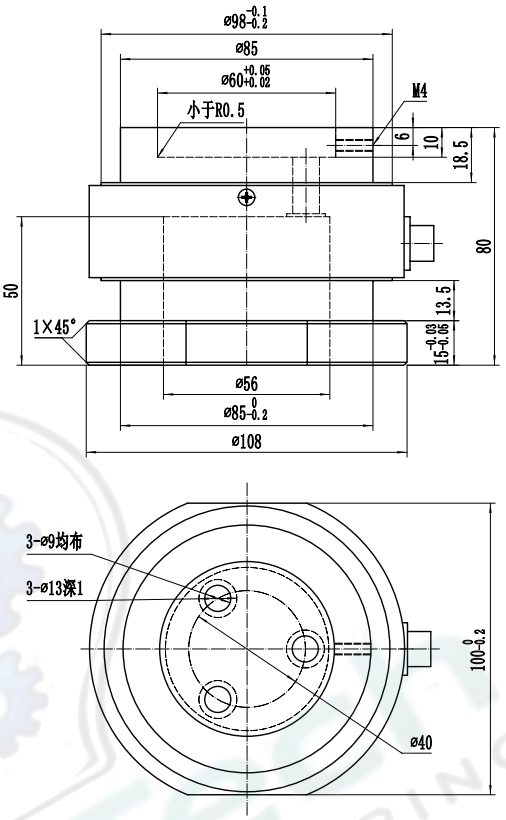
- Special weighing force measuring equipment for powder forming.

Parameters Table			
Range	0-40T	Material quality	Stainless Steel
Output sensitivity	2.0±0.05mV/V	Impedance	750±20Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15V
Hysteresis	0.2%F.S.	Operating temperature range	-20-80℃
Repeatability	0.15%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10℃	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.3%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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DYZ-109 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

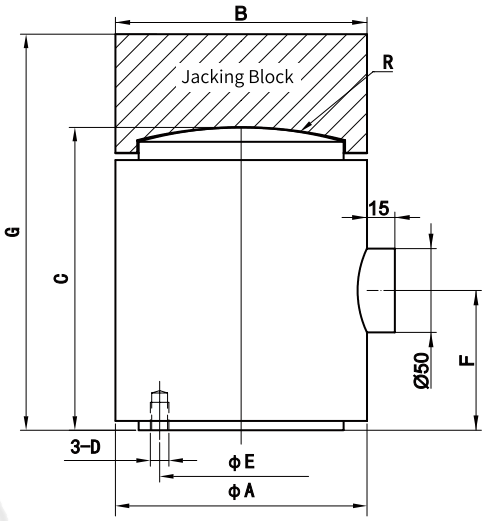
- Special weighing force measuring equipment for powder forming.

Parameters Table			
Range	0-40T	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	750±20Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15V
Hysteresis	0.2%F.S.	Operating temperature range	-20-80°C
Repeatability	0.15%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10°C	Cable line specifications	ф5x3m
Xero point temperature drift	0.3%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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DYZ-011 Column type load cells





Product Reviews

Characteristic

Low height, large contact area, high comprehensive precision, easy to installation. Different scales and sizes can be customized.

Application Area

It is mainly used in electronic weighing equipment and pull pressure detection equipment with large pressure area, such as:

- Pressure equipment
- Mobile phone assembly
- Small pressure platform
- tester
- Pressure installed capacity
- hydraulic press
- Cold hot press
- Electronic hook scale, hopper scale, etc

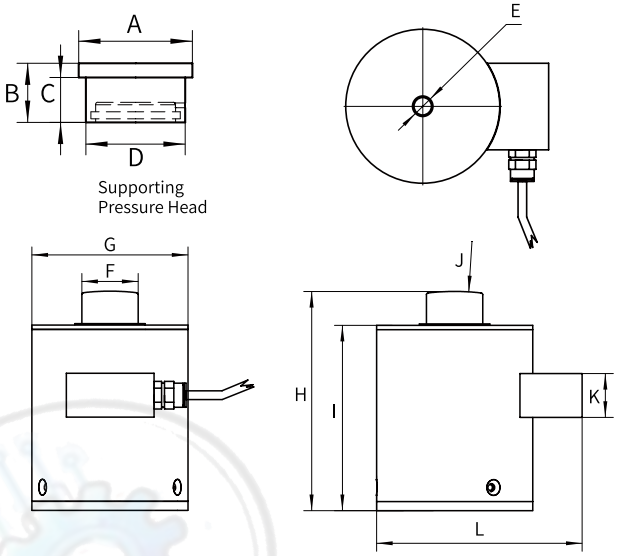
Parameters Table			
Range	0-1000T	Material quality	Alloy Steel
Output sensitivity	2.0/3.0±10%mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe overload	150%
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 (T)	Φa	ΦB	C	D	E	R	G	F
2-20	54	54	65	M4	35	80	85	30
30-50	78	78	100	M6	55	100	125	47
60-100	98	98	110	M6	75	120	140	55
200	128	128	140	M6	100	200	180	70
300	154	154	170	M8	120	300	215	85
500	196	196	220	M10	150	400	275	110
700-1000	246	246	282	M16	190	500	352	132

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DYZ-012 Column type load cells





Product Reviews

Characteristic

Low height, large contact area, high comprehensive precision, easy to installation. Different scales and sizes can be customized.

Application Area

It is mainly used in electronic weighing equipment and pull pressure detection equipment with large pressure area, such as:

- Pressure equipment
- Mobile phone assembly
- Small pressure platform
- tester
- Pressure installed capacity
- hydraulic press
- Cold hot press
- Electronic hook scale, hopper scale, etc

Parameters Table

Range	5-500T	Material quality	Stainless Steel
Output sensitivity	2.0mV/V	Impedance	≤100T:700Ω 100t-500T:1400Ω
Zero point output	±0.1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V DC
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ6.5x5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	Selectable

Range (T)	ΦA	B	C	D	E	F	G	H	I	J	K	L
5/10	Φ48	25	19	Φ42	M12 Depth20	ϕ32.1	ϕ89	125	105.7	SR130	25	117
30	Φ55	28	22	Φ49	M12 Depth20	ϕ39	ϕ102	133	117.5	SR150	25	130
60	Φ64	50	42	Φ60	M20 Depth30	ϕ45	ϕ102	140	118.5	SR170	25	130
100	Φ87	67.5	57.4	Φ77	M20 Depth30	ϕ59	ϕ114	190	153.5	SR430	25	143
200	ϕ106	72.6	57.6	ϕ96	M20 Depth30	ϕ80	ϕ140	200	168	SR550	25	170
300	ϕ123	74	48.6	ϕ115	M20 Depth30	ϕ94	ϕ158.5	235	203.5	SR550	25	188.5
500	ϕ158.3	95	/	/	4-M10 Depth20 (Pitch-Row ϕ100.5)	ϕ130	ϕ201.5	305	262.5	SR710	/	222

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D620 Column type load cells





2.4G wireless transmission

Wireless transmission of data, liquid crystal display, remote control, communication interface using USB interface, can use USB cable charging convenient and fast built-in 3.7V, 1000 mAh lithium battery.





Product Reviews

Characteristic

Integrated display weighing module, the instrument part accuracy can reach 0.05%, built-in battery power supply, can be through USB interface or 2.4G wireless communication.

Application Area

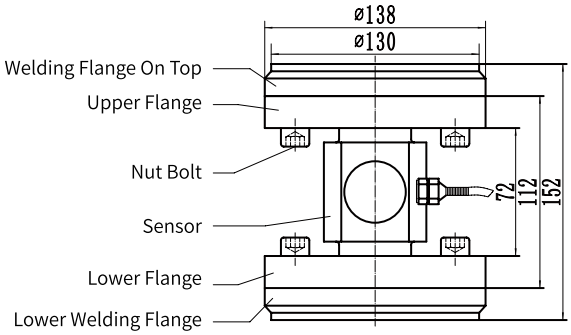
- The car pressure
- Automated assembly
- 3C product testing
- New energy product assembly
- Medical testing
- Robot field
- Mold assembly
- Other industrial testing, automation equipment areas, and testing areas

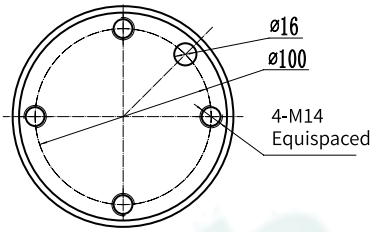
Parameters Table	
Measure The Channel	Four-channel analog input
Arch Bridge Voltage	5V
Certainty Of Measurement	twenty-bit
Measurement Speed	The measurement speed can be selected 10,20,80,320 times per second
Displays The Fractional Degree	The maximum display of the measured value is 999999
Keys And Display	480*320 color LCD display
String Communication	12-key capacitive touch key
Ethernet Port	Can execute MODBUS-TCP protocol, and custom protocol
Power Supply Voltage	10-30VDC power supply, less than 2W
Basic Function	Measurement display filtering scale transform peak capture data recording

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DYZ-013 Column type load cells







Product Reviews

Characteristic

The upper and lower flanges are fixed, compact structure, high comprehensive accuracy, good long-term stability, high quality alloy steel surface nickel plating.

Application Area

- rail weighbridge
- The bucket scale
- Platform scale and other electronic weighing equipment

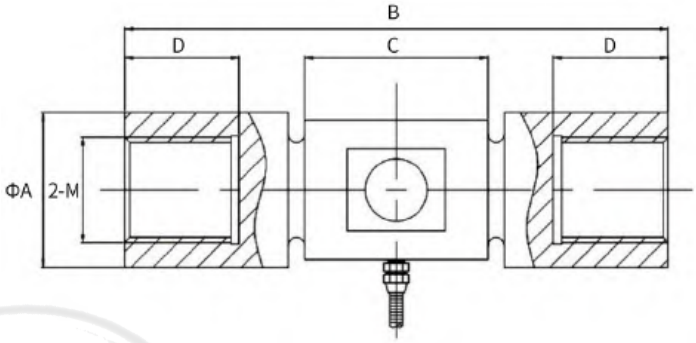
Parameters Table			
Range	0-30T	Material quality	Alloy Steel
Output sensitivity	1.0-2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.05%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ф5x3m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (T)			
5	10	20	30

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DYZ-014 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

- Rail Weighbridge
- The Bucket Scale
- Platform Scale And Other Electronic Weighing Equipment

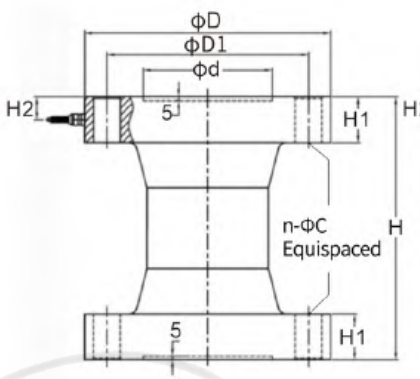
Parameters Table			
Range	0-100T	Material quality	Alloy Steel
Output sensitivity	1.5±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	10-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.05%F.S.	Safe overload	120%
Creep (30 min)	0.5%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (T)	ΦA	B	C	2-M	D
20	60	180	64	M36*4	40
30	76	213	73	M45*4.5	45
50	94	332	112	M64*3	70
100	112	367	130	M76*3	80

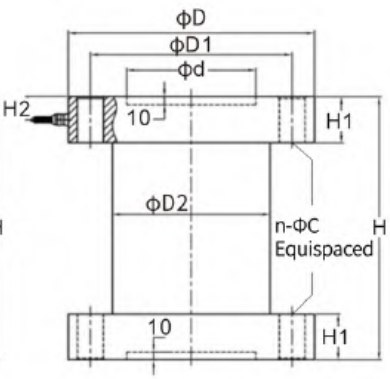
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DYZ-015 Column type load cells





300-3000(KN)



4000-5000(KN)

Product Reviews

Characteristic

The upper and lower flanges are fixed, compact structure, high comprehensive accuracy, good long-term stability, high quality alloy steel surface nickel plating.

Application Area

- rail weighbridge
- The bucket scale
- Platform scale and other electronic weighing equipment

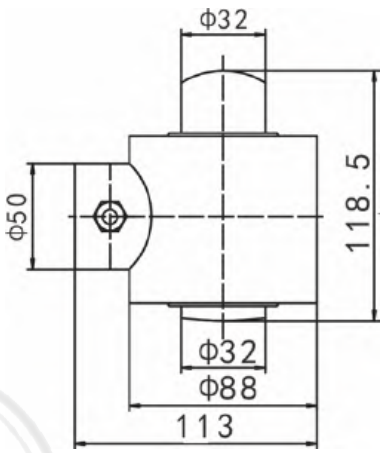
Parameters Table			
Range	0-3500T	Material quality	Alloy Steel
Output sensitivity	2.0mV/V	Impedance	780Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.2%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
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)	Range (T)	D	D1	D2	d	H	H1	H2	n-ΦC
300	30	145	120	/	85	130	22	15	12-ϕ16
500/600	50/60	197	160	/	110	160	25	15	12-ϕ22
1000	100	240	200	/	135	230	40	28	12-ϕ26
150/2000/2500	150/200/250	305	250	/	160	326	57	45	12-ϕ33
3000	300	415	360	/	256	358	69	50	18-ϕ33
4000	400	415	360	/	265	358	80		18-ϕ33
5000	500	415	360	/	256	398	69	45	18-ϕ33
10000	1000	600	515	/	352	480	110	/	20-ϕ45
25000(A)	2500(A)	700	610	/	/	800	240	/	24-ϕ45
25000(B)	3000(B)	640	550	/	280	600	150	/	20-ϕ45
35000	3500	700	610	/	335	800	240	/	24-ϕ45

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DYZ-016 Column type load cells





Product Reviews

Characteristic

This product is simple in structure, and the cost is low. The design of the sealing diaphragm changes the tedious process of supporting the shell in the past, overcomes the defect that the shell of the traditional sensor is easily damaged due to deformation, and greatly improves the sealing performance of the sensor. Compared with the traditional column sensor, the sensor of this structure achieves relatively high accuracy in terms of linear, side resistance, torsion resistance, orientation error and so on.

Application Area

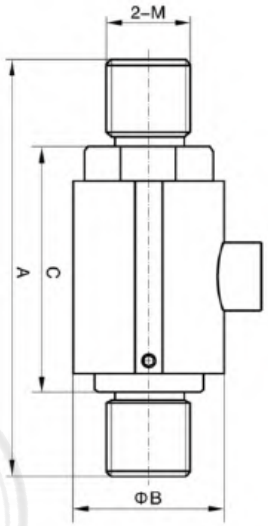
- Rail Weighbridge
- The Bucket Scale
- Platform Scale And Other Electronic Weighing Equipment

Parameters Table			
Range	3-30T	Material quality	Stainless Steel
Output sensitivity	1.5-2.0mV/V	Impedance	350/700Ω
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	-20-65℃
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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DYZ-018 Column type load cells





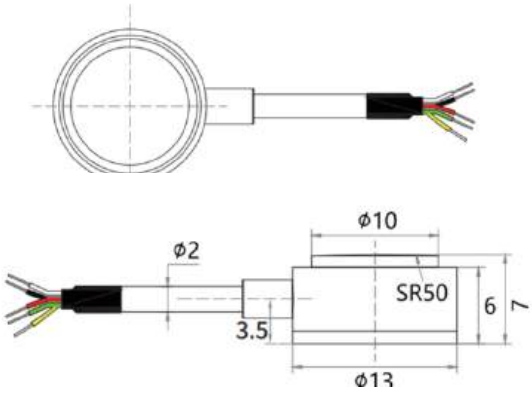
Parameters Table			
Range	0-200T	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.5mV/V	Impedance	350±3Ω or 700±15Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.5%F.S.	Safe overload	120%
Creep (30 min)	0.05%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ф5x5m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

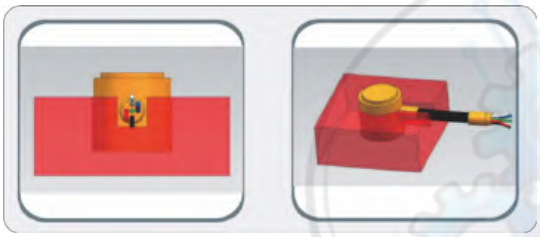
Range (T)	A	ΦB	C	M
10-20	214	82	124	M42*4.5
30-50	276	106	156	M56*5.5
70-100	380	142	180	M76*4
150-200	500	175	220	M130*6

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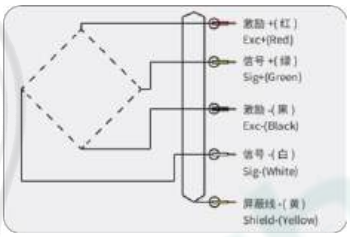
DYZ-13E Column type load cells







Installation Mode



Wiring Diagram

Product Reviews

Characteristic

A bolt pretension sensor is a device for measuring and monitoring the axial pretension force of the bolt connections. It can be used to improve the reliability and safety of bolt connection and prevent bolt loosening or overtightening. It can reflect the contact interface stiffness and clamping force of the bolt connector, and detect or quantify the tightness of the bolt. The inner hole size can be non-standard customization, elastomer for high quality stainless steel material.

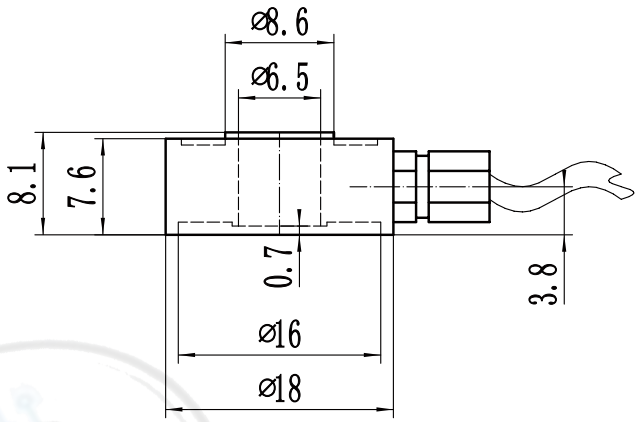
Application Area

- Bolt monitoring and washer bolt pretension sensor of various equipment
- Bolt tightening force test
- Force measuring place with limited installation space
- Automation equipment and testing field

Parameters Table			
Range	0-50kg	Material quality	Stainless Steel
Output sensitivity	2.0±10% mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	±0.1%F.S.	Service voltage	5-15V
Hysteresis	±0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	±0.1%F.S.	Safe overload	120%
Creep (30 min)	±0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	±0.1%F.S./10°C	Cable line specifications	ϕ2x3m
Xero point temperature drift	±0.1% F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

DYHX-001 Column type load cells





Product Reviews

Characteristic

A bolt pretension sensor is a device for measuring and monitoring the axial pretension force of the bolt connections. It can be used to improve the reliability and safety of bolt connection and prevent bolt loosening or overtightening. It can reflect the contact interface stiffness and clamping force of the bolt connector, and detect or quantify the tightness of the bolt. The inner hole size can be non-standard customization, elastomer for high quality stainless steel material.

Application Area

- Bolt monitoring and washer bolt pretension sensor of various equipment
- Bolt tightening force test
- Force measuring place with limited installation space
- Automation equipment and testing field

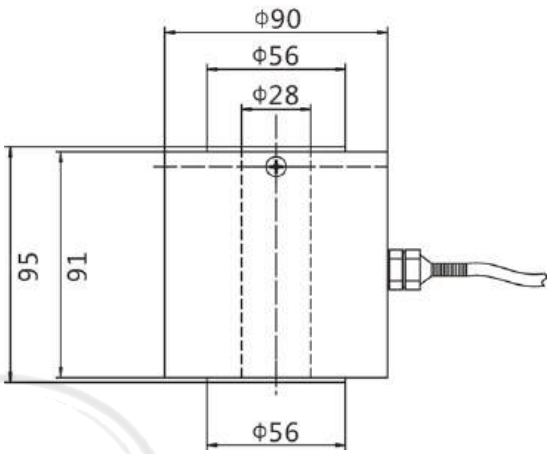
Parameters Table			
Range	0-100kg	Material quality	Stainless Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10v
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ф2x2m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)					
5	10	20	30	50	100

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DYHX-002 Column type load cells





Product Reviews

Characteristic

A bolt pretension sensor is a device for measuring and monitoring the axial pretension force of the bolt connections. It can be used to improve the reliability and safety of bolt connection and prevent bolt loosening or overtightening. It can reflect the contact interface stiffness and clamping force of the bolt connector, and detect or quantify the tightness of the bolt. The inner hole size can be non-standard customization, elastomer for high quality stainless steel material.

Application Area

- Bolt monitoring and washer bolt pretension sensor of various equipment
- Bolt tightening force test
- Force measuring place with limited installation space
- Automation equipment and testing field

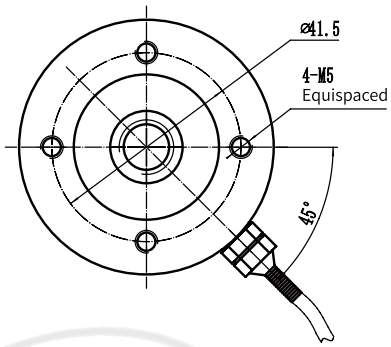
Parameters Table			
Range	5-50T	Material quality	Alloy Steel
Output sensitivity	1.5±10%mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15v
Hysteresis	0.05%F.S.	Operating temperature range	-20-80°C
Repeatability	0.05%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10°C	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.1%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

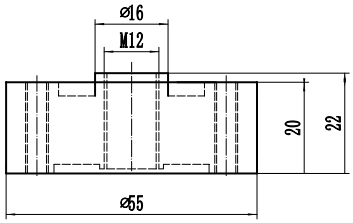
Range (T)				
5	10	20	30	50

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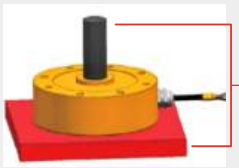
DYHX-002M Column type load cells







Force doagram

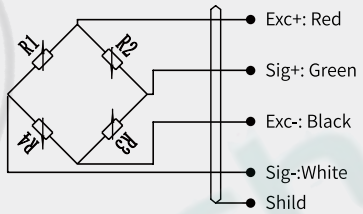


Compression Bar/Ball Screw

Coaxial up & down
fixing parts is required

Load Bearing Base

Sensor wiring diagram



Product Reviews

Characteristic

Low height, high precision, good linearity, strong resistance to eccentric loads and lateral forces, unique structural design is not sensitive to changes in the applied force and interference forces. The stress distribution in the strain sensitive area of the elastic body only changes with the magnitude of the applied force. Featuring a low profile construction, good interchangeability, and stable operation.

Application Area

- Hollow design, mainly used for measuring extrusion force, detecting and controlling assembly interference force values, and detecting other industrial control force values.

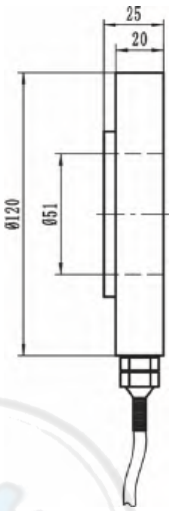
Parameters Table			
Range	30-500kg	Material quality	Alloy Steel
Output sensitivity	2.0±0.2mV/V	Impedance	700Ω
Zero point output	±0.3%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V DC
Hysteresis	0.3%F.S.	Operating temperature range	-20-60℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	±0.05%F.S./10℃	Cable line specifications	ф5x3m
Xero point temperature drift	±0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	Ip65

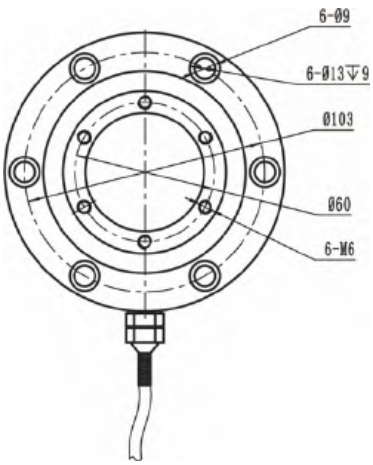
Range (kg)					
30	50	100	200	300	500

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DYHX-003 Column type load cells







Product Reviews

Characteristic

A bolt pretension sensor is a device for measuring and monitoring the axial pretension force of the bolt connections. It can be used to improve the reliability and safety of bolt connection and prevent bolt loosening or overtightening. It can reflect the contact interface stiffness and clamping force of the bolt connector, and detect or quantify the tightness of the bolt. The inner hole size can be non-standard customization, elastomer for high quality stainless steel material.

Application Area

- Bolt monitoring and washer bolt pretension sensor of various equipment
- Bolt tightening force test
- Force measuring place with limited installation space
- Automation equipment and testing field

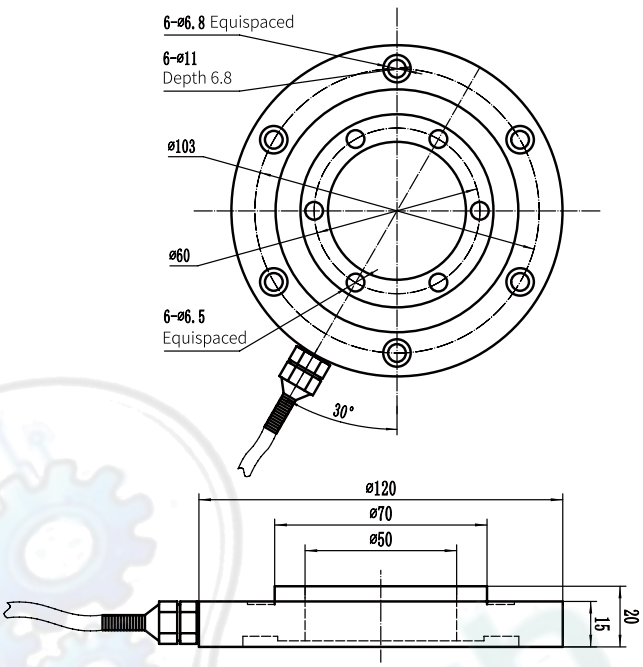
Parameters Table			
Range	50kg-5T	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	2.0±0.2mV/V	Impedance	700Ω
Zero point output	0.3%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V DC
Hysteresis	0.5%F.S.	Operating temperature range	-20-60℃
Repeatability	0.3%F.S.	Safe overload	150%
Creep (30 min)	0.3%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	1kHz	International Protection	IP65

Range (kg)						
50	200	300	500	1000	3000	5000

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DYHX-003M Column type load cells





Product Reviews

Characteristic

Low height, high precision, good linearity, strong resistance to eccentric loads and lateral forces, unique structural design is not sensitive to changes in the applied force and interference forces. The stress distribution in the strain sensitive area of the elastic body only changes with the magnitude of the applied force. Featuring a low profile construction, good interchangeability, and stable operation.

Application Area

- Hollow design, mainly used for measuring extrusion force, detecting and controlling assembly interference force values, and detecting other industrial control force values.

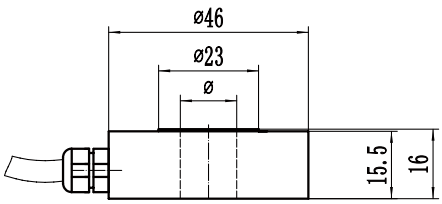
Parameters Table			
Range	30-500kg	Material quality	Alloy Steel
Output sensitivity	2.0±0.2mV/V	Impedance	700Ω
Zero point output	±0.3%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V DC
Hysteresis	0.3%F.S.	Operating temperature range	-20-60℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	±0.05%F.S./10℃	Cable line specifications	ф5x3m
Xero point temperature drift	±0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	Ip65

Range (T)						
0.05	0.1	0.5	1	2	3	5

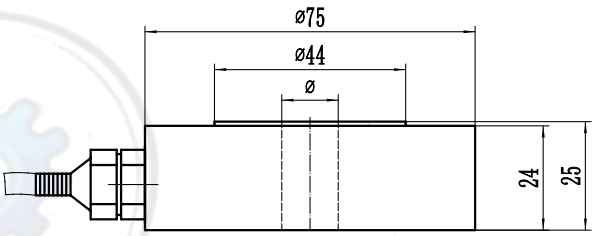
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DYHX-004 Column type load cells





Range (kN)	0.5-20 (2/5/10/20)
ϕD	4-16



Range (kN)	10-200 (20/50/200)
ϕD	7-30

Product Reviews

Characteristic

A bolt pretension sensor is a device for measuring and monitoring the axial pretension force of the bolt connections. It can be used to improve the reliability and safety of bolt connection and prevent bolt loosening or overtightening. It can reflect the contact interface stiffness and clamping force of the bolt connector, and detect or quantify the tightness of the bolt. The inner hole size can be non-standard customization, elastomer for high quality stainless steel material.

Application Area

- Bolt monitoring and washer bolt pretension sensor of various equipment
- Bolt tightening force test
- Force measuring place with limited installation space
- Automation equipment and testing field

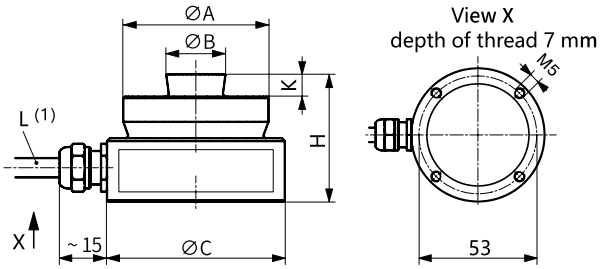
Parameters Table			
Range	0-200kN	Material quality	Stainless Steel
Output sensitivity	1.0±10%mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10℃	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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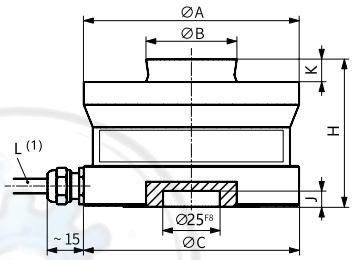
DYRTN Column type load cells



Range
1-4.7T



Range
10-470T



Product Reviews

Characteristic

The torsion ring weighing sensor is made of stainless steel, small size, strong overload resistance, large range, high sensitivity, high precision, and good anti-partial load performance. High impedance and low power consumption make it ideal for battery-powered measuring units.
Suitable for electronic weighing device, pull test machine and other weighing equipment occasions.

Application Area

- Machinery
- Robot
- Biomedical Medicine And Other Fields
- To analyze and control the mechanical properties of the objects.

Parameters Table			
Range	1-470T	Material quality	Stainless Steel
Output sensitivity	2.85mV/V	Impedance	4450±200Ω
Zero point output	±2%F.S.	Insulation resistance	>5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-10V
Hysteresis	0.03%F.S.	Operating temperature range	-20℃ ~ +65℃
Repeatability	0.03%F.S.	Safe overload	120%
Creep (30 min)	0.03%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.03%F.S	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.03%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

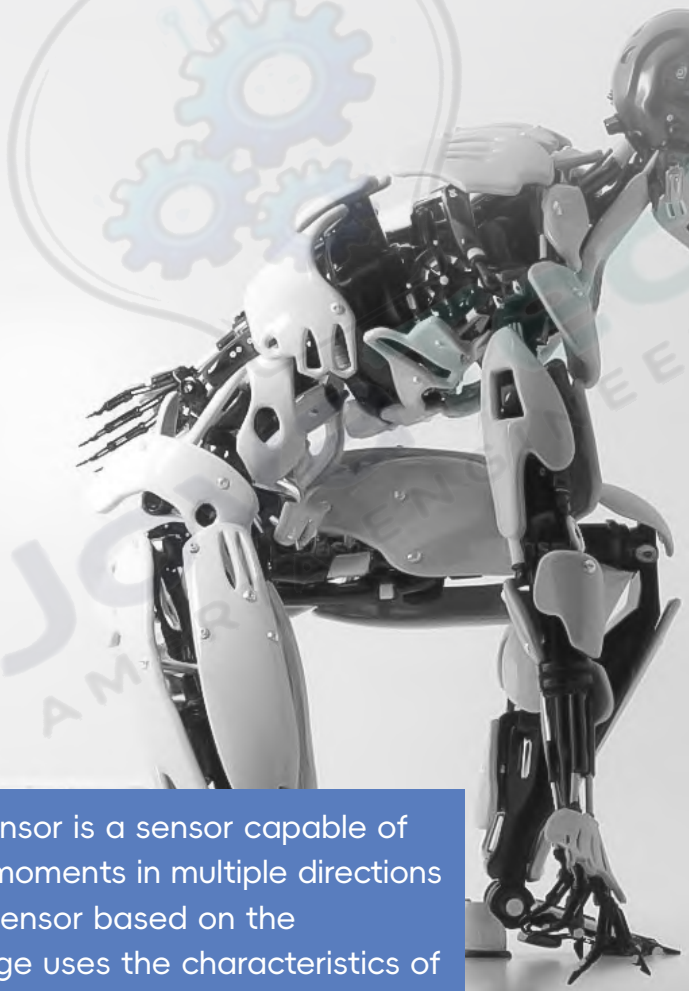
Size	Range (T)													
	1	2.2	4.7	10	15	22	33	47	68	100	150	220	330	470
A	49	49	49	74	75	75	95	130	130	150	150	225	225	270
B	20	20	20	DU	30	30	40	60	60	70	70	100	100	120
C	60	60	60	75	75	75	95	130	130	150	150	225	225	270
H	43	43	43	50	50	50	65	75	85	90	100	130	145	170
J	—	—	—	7	7	7	7	7	7	7	7	10	10	10
K	7.5	7.5	7.5	6.5	6.5	6.5	10	14	14	16	16	24	24	28
L (m)	5	5	5	5	5	12	15	12	12	12	5	5	5	5

(1) L= Cable Length

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09

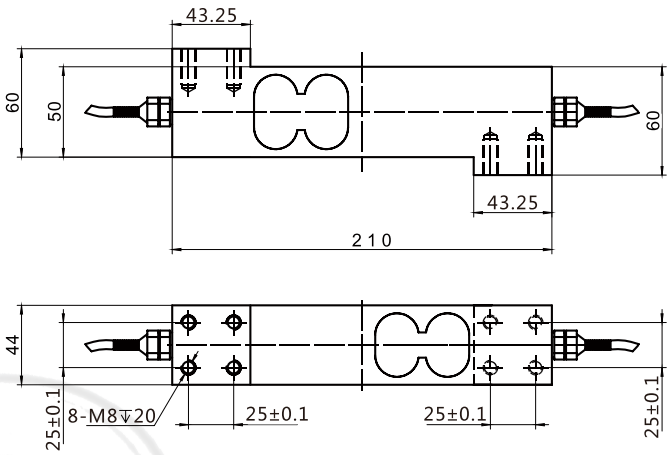
MULTI-AXIAL FORCE SENSOR



A Multi-axial force sensor is a sensor capable of measuring forces or moments in multiple directions simultaneously. The sensor based on the resistance strain gauge uses the characteristics of the resistance strain gauge to convert the force or torque into the electrical signal.

DYDW-001 Multi-axial force sensor





Product Reviews

Characteristic

A multi-component force sensor is a sensor capable of measuring forces or moments in multiple directions simultaneously. The sensor based on the resistance strain gauge uses the characteristics of the resistance strain gauge to convert the force or torque into the electrical signal.
It has high stiffness, high natural frequency, and high load tolerance, and is suitable for dynamic measurement. Compact structure, easy installation, small space. The product price is relatively high, so our company needs to provide professional calibration and maintenance guidance. Affected by temperature, humidity, electromagnetic interference and other environmental factors, need to compensate or shield. There may be crosstalk or nonlinearity in the measured signal, which can be corrected or decoupled by our company.

Application Area

- Machinery
- Robot
- Biomedical Medicine And Other Fields
- To analyze and control the mechanical properties of the objects.

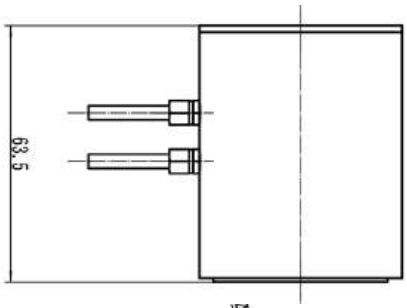
Parameters Table			
Range	0-1000kg	Material quality	Alloy Steel
Output sensitivity	1.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15v
Hysteresis	0.1%F.S.	Operating temperature range	-20-75°C
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	300%
Temperature sensitivity drift	0.5%F.S./10°C	Cable line specifications	ϕ5x4m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

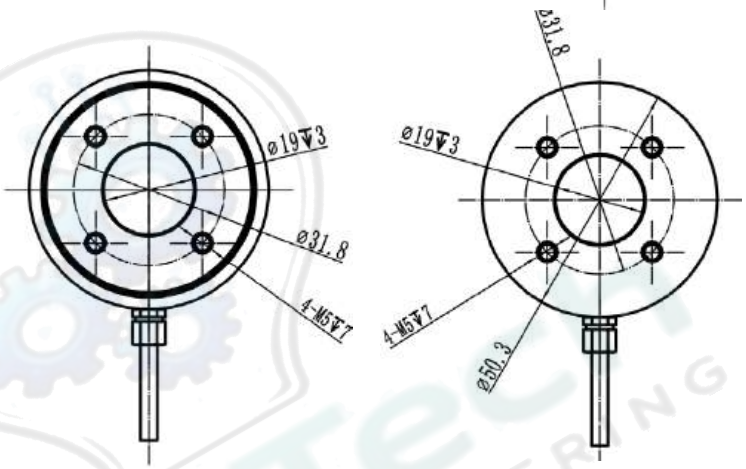
Force Direction	Range (kg)				
X	50	100	200	500	1000
Y	50	100	200	500	1000

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DYDW-002 Multi-axial force sensor





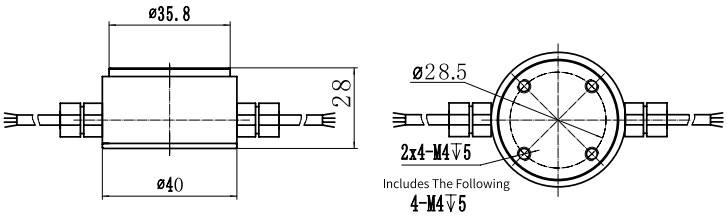


Parameters Table			
Range	3-60N.m 100-2000N	Material Quality	Aluminium Alloy/Alloy Steel
Output Sensitivity	2mV/V	Impedance	350Ω
Zero Point Output	±0.25%F.S.	Insulation Resistance	≥5000MΩ/100VDC
Nolinear	±0.25%F.S.	Service Voltage	5-15v
Hysteresis	±0.25%F.S.	Operating Temperature Range	-20-75℃
Repetitiveness	±0.25%F.S.	Safe Overload	150%
Creep (30 min)	0.1%F.S.	Extreme Overload	300%
Temperature Sensitivity Drift	0.5%F.S./10℃	Cable Line Specifications	Φ4x3m
Xero Point Temperature Drift	±0.005%F.S./10℃	Cable Limit Tension	10kg
Response Frequency	10kHz	TEDS	

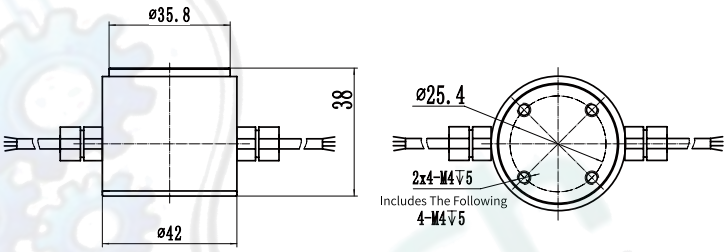
Range						
Pull Pressure Range	Fz (N)	100	200	500	1000	2000
Torque Force Process	M(N.m)	3	6	15	20	60

DYDW-003 Multi-axial force sensor





Range					
Pull Pressure Range	Fz (N)	10	50	100	300
Torque Force Process	M(N.m)	1	2	3	



Range			
Pull Pressure Range	Fz (N)	500	1000
Torque Force Process	M(N.m)	5	10 30 50

Product Reviews

Characteristic

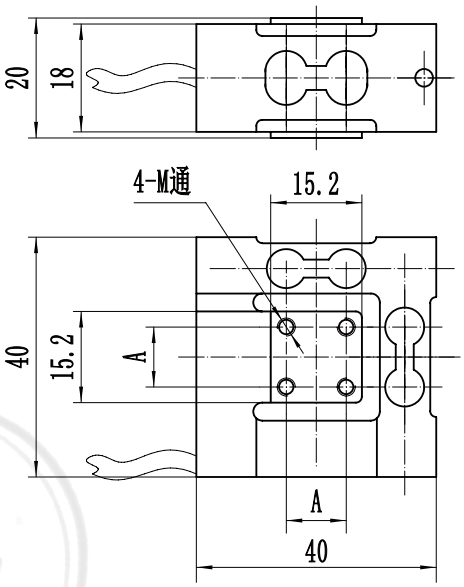
A pressure-torsion sensor is a sensor capable of measuring both pressure and torque. It can be used to measure the force and torque during drilling, cutting, screws and tightening, or to measure the torsional characteristics of springs, bearings, clutch and other components.

Parameters Table			
Range	1-50N.m 50-1000N	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-10v
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%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	ф3x2m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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DYDW-004 Multi-axial force sensor





Product Reviews

Characteristic

A multi-component force sensor is a sensor capable of measuring forces or moments in multiple directions simultaneously. The sensor based on the resistance strain gauge uses the characteristics of the resistance strain gauge to convert the force or torque into the electrical signal.
It has high stiffness, high natural frequency, and high load tolerance, and is suitable for dynamic measurement. Compact structure, easy installation, small space. The product price is relatively high, so our company needs to provide professional calibration and maintenance guidance. Affected by temperature, humidity, electromagnetic interference and other environmental factors, need to compensate or shield. There may be crosstalk or nonlinearity in the measured signal, which can be corrected or decoupled by our company.

Application Area

- Machinery
- Robot
- Biomedical Medicine And Other Fields
- To analyze and control the mechanical properties of the objects.

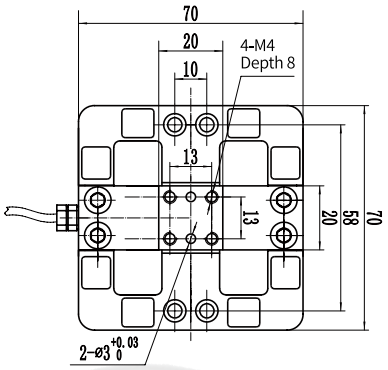
Parameters Table			
Range	5-100kg	Material quality	Aluminium Alloy/Alloy Steel
Output sensitivity	1.0-1.5mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	1.0%F.S.	Operating temperature range	-20-80°C
Repeatability	0.05%F.S.	Safe overload	120%
Creep (30 min)	0.05%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.5%F.S	Cable line specifications	ϕ3x2m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

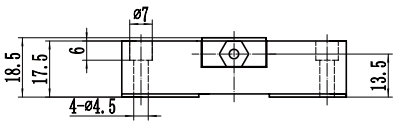
Range (kg)	A	M
5-20	10	M3
30-100	9	M4

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DYDW-005 Multi-axial force sensor

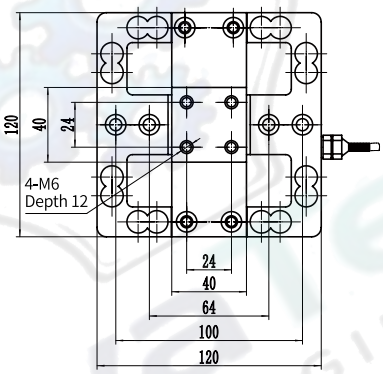


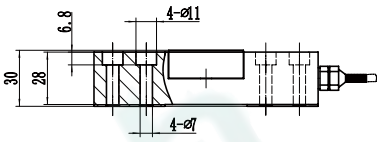




Force Direction Range (N)	
X Y Z	100/200/500







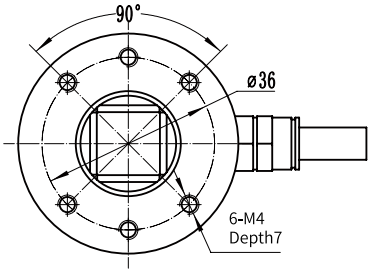
Force Direction Range (N)	
X Y Z	1000/2000/5000

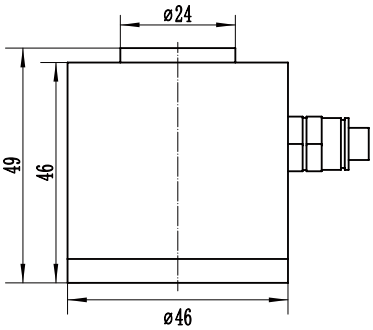
Parameters Table			
Range	100-5000N	Material quality	Aluminium Alloy/Alloy Steel
Output sensitivity	1.0-2.0mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-75℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.5%F.S.	Cable line specifications	⩽ 500N：1 line Φ3*5m
Xero point temperature drift	0.1%F.S./10℃	Cable limit tension	＞ 500N 3 lines Φ3*5m
Response frequency	10kHz	TEDS	

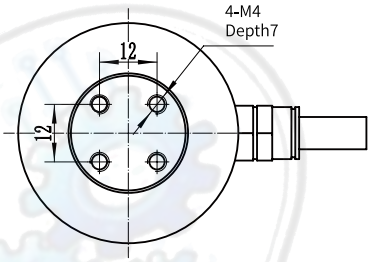
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DYDW-006 Multi-axial force sensor









Force DirectionRange (N)	
X	5/10/20/50
Y	5/10/20/50
Z	5/10/20/50/100

Product Reviews

Characteristic

A multi-component force sensor is a sensor capable of measuring forces or moments in multiple directions simultaneously. The sensor based on the resistance strain gauge uses the characteristics of the resistance strain gauge to convert the force or torque into the electrical signal.
It has high stiffness, high natural frequency, and high load tolerance, and is suitable for dynamic measurement. Compact structure, easy installation, small space. The product price is relatively high, so our company needs to provide professional calibration and maintenance guidance. Affected by temperature, humidity, electromagnetic interference and other environmental factors, need to compensate or shield. There may be crosstalk or nonlinearity in the measured signal, which can be corrected or decoupled by our company.

Application Area

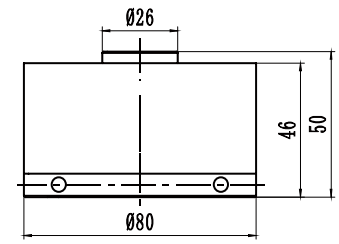
- Machinery
- Robot
- Biomedical Medicine And Other Fields
- To analyze and control the mechanical properties of the objects.

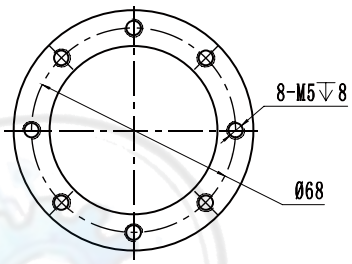
Parameters Table			
Range	5-100kg	Material quality	Alloy Steel
Output sensitivity	1.0±10%mV/V	Impedance	700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-10V
Hysteresis	0.2%F.S.	Operating temperature range	-20-80°C
Repeatability	0.2%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	2%F.S.	Cable line specifications	ϕ6x3m
Xero point temperature drift	0.5%F.S./10°C	Cable limit tension	10kg
Response frequency	0.05%F.S./10°C	TEDS	

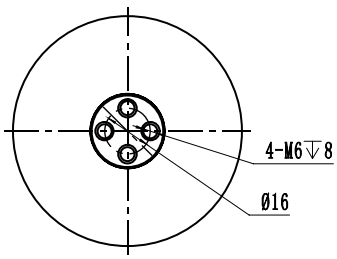
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DYDW-007 Multi-axial force sensor









Product Reviews

Characteristic

A multi-component force sensor is a sensor capable of measuring forces or moments in multiple directions simultaneously. The sensor based on the resistance strain gauge uses the characteristics of the resistance strain gauge to convert the force or torque into the electrical signal.
It has high stiffness, high natural frequency, and high load tolerance, and is suitable for dynamic measurement. Compact structure, easy installation, small space. The product price is relatively high, so our company needs to provide professional calibration and maintenance guidance. Affected by temperature, humidity, electromagnetic interference and other environmental factors, need to compensate or shield. There may be crosstalk or nonlinearity in the measured signal, which can be corrected or decoupled by our company.

Application Area

- Machinery
- Robot
- Biomedical medicine and other fields
- To analyze and control the mechanical properties of the objects.

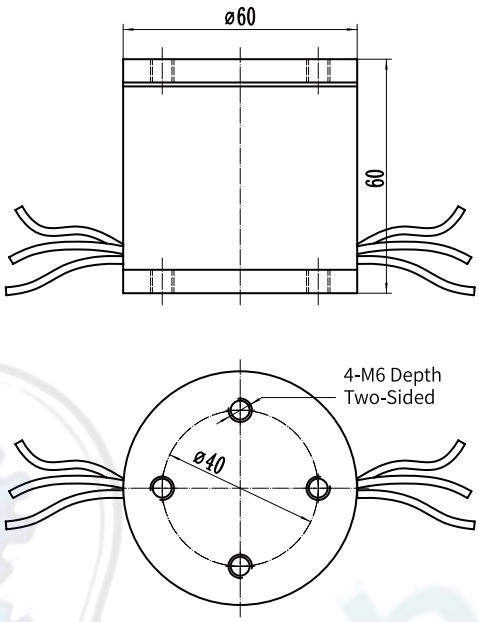
Parameters Table			
Range	0-1000kg	Material quality	Alloy Steel
Output sensitivity	1.0mV/V	Impedance	350/700/1400Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-12V
Hysteresis	0.1%F.S.	Operating temperature range	-20-75°C
Repeatability	0.5%F.S.	Safe overload	150%
Creep (30 min)	0.5%F.S.	Extreme overload	300%
Temperature sensitivity drift	0.5%F.S.	Cable line specifications	ϕ3x4m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Force Direction Range (kg)		Torque Force Range (N.m)	
X Y Z	50/200/500/1000	X	10/50/100/300/500

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DYDW-008 Multi-axial force sensor





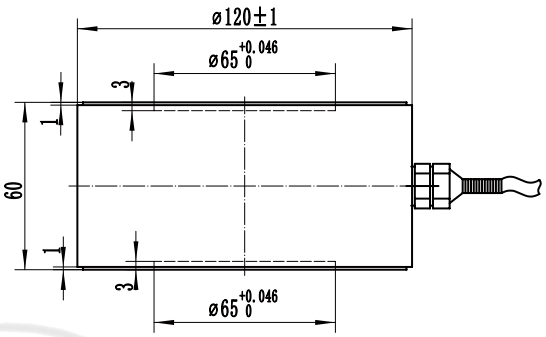
Parameters Table			
Range	300N 10N.m	Safe overload	200%F.S.
Operating temperature range	-20℃~60℃	Insulation resistance	≥5000MΩ (50V DC)
Input resistance	350/700±20Ω	Service voltage	10-15V
Output resistance	350/700±5Ω		

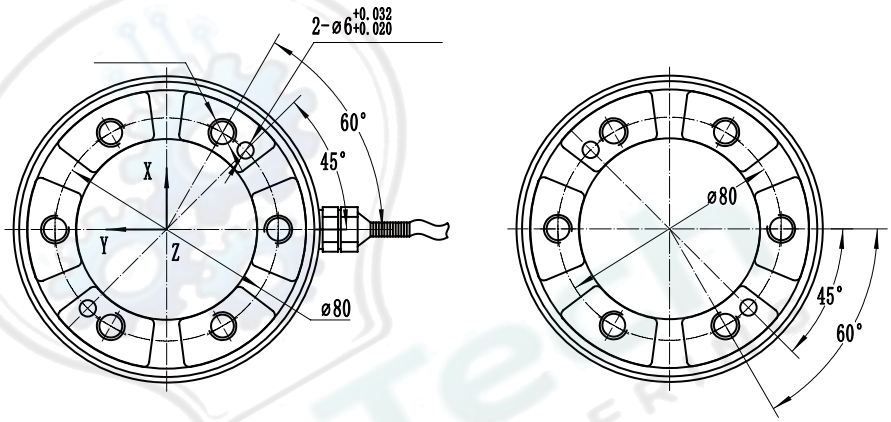
Parameters Table							
		Fx	Fy	Fz	Nx	Ny	Nz
Sensitivity	mV/V	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0
Nolinear	%F.S.	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Hysteresis	%F.S.	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3
Repeatability	%F.S.	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3
Interdimensional coupling error	%F.S.	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
Creep (30 min)	%F.S.	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Zero point output	%F.S.	±1	±1	±1	±1	±1	±1
Zero point temperature drift	%F.S./10℃	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Sensitivity temperature coefficient	%F.S./10℃	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3

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DYDW-009 Multi-axial force sensor







Parameters Table			
Range	10kN/750N.m	Material quality	Stainless Steel
Output sensitivity	1.0mV/V	Impedance	350/700/1400Ω
Zero point output	0.1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-12V
Hysteresis	0.1%F.S.	Operating temperature range	-20-75℃
Repeatability	0.1%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	300%
Temperature sensitivity drift	0.05%F.S.	Cable line specifications	ϕ5x4m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

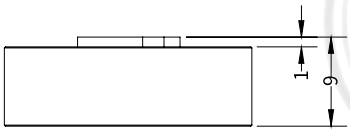
Force Direction Range (kN)						
X	1	3	5	10	20	50
Y	1	3	5	10	20	50
Z	2	5	10	20	40	100

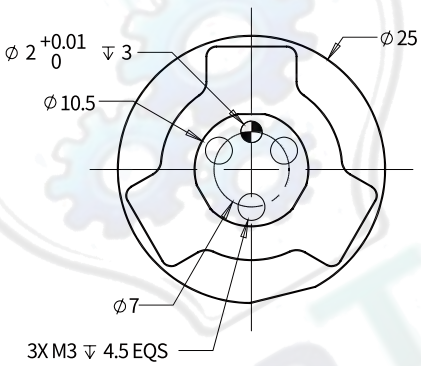
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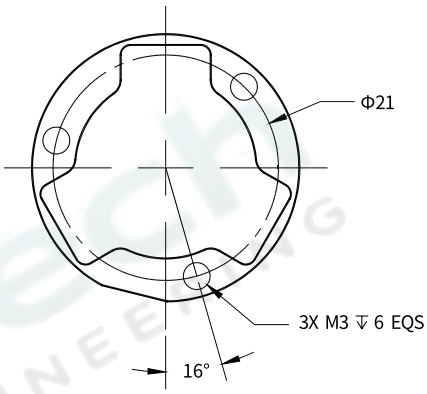
DYDW-γ25 Multi-axial force sensor











Product Reviews

Characteristic

Made of high strength high quality 17-4PH stainless steel, with yield strength, high overload capacity. The international high standard strain gauge chip can achieve high resolution, high response frequency and high test accuracy. 100% autonomous structure design, factory carefully tested, coupling accuracy is extremely high. A variety of communication interface protocols can be selected, basically covering domestic and foreign mainstream collaborative robot interfaces. Provide debugging software or test software. Flexible cable with high bending resistance.

Application Area

- Rehabilitation Medical Equipment
- Biobiomimetic Experiments
- Vehicle Lift Test
- Machine human control grinding, assembly, dragging teaching and various scientific research.

γ25 Series Common Specification Model				
Model		γ25-20NX6	γ25-50NX6	γ25-200NX6
Range	Fx/Fy/Fz	20N/20N/20N	50N/50N /50N	100N/100N/100N
	Tx/Ty/Tz	0.5N.m	2N.m	5N.m

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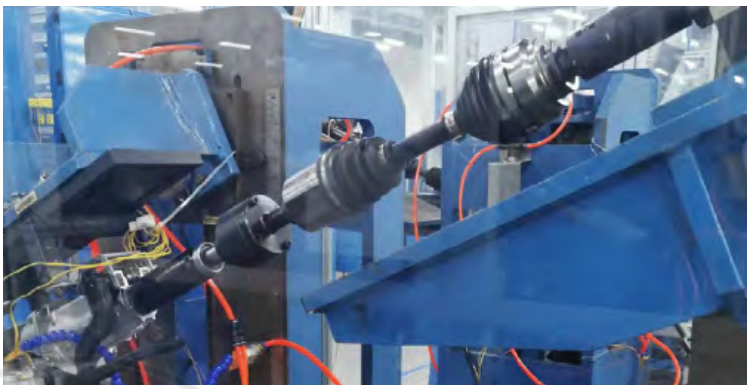
DYDW-γ25 Multi-axial force sensor

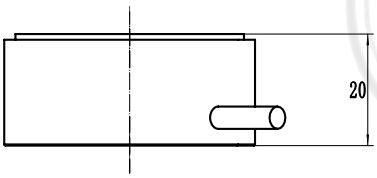
Parameters Table	
Mechanical Features	
Weight	~55g
Material quality	Aluminium Alloy/Stainless Steel
Size	Φ25mm×9mm
Levels Of Protection	IP65
Overload Capacity	300%F.S
Stiffness (Calculation)	Fx 1.6x10^7 N/m
	Fy 1.6x10^7 N/m
	Fz 1.3x10^7 N/m
	Tx 6059.99Nm/rad
	Ty 6059.99Nm/rad
	Tz 10056.99Nm/rad
Electrical Features	
Input / Output Impedance	350 Ω
Communication Interface	Mv matrix
Working Voltage	5-15V DC
Cable Length	5m
Accuracy Class	
Resolution Ratio	Better than 0.1%FS
Nolinear	Better than 0.2%FS
Accuracy	Better than 0.3%FS
Repeatability	Better than 0.2%FS
Coupling Accuracy	Better than 1.5%FS
Hysteresis Accuracy	Better than 0.3%FS
Temperature Features	
Temperature Zero Drift	0.2%F.S/10℃
Zero Drift	0.1%F.S/30min
Storage Temperature	-25℃ ~ 70℃
Service Environment	0℃ ~ 40℃, 20 ~ 80% RH
Extended Interface	0±10v, /Ethercat,/Modbus-TCP,/Ethernet,/Canopen,/Modbus-RTU

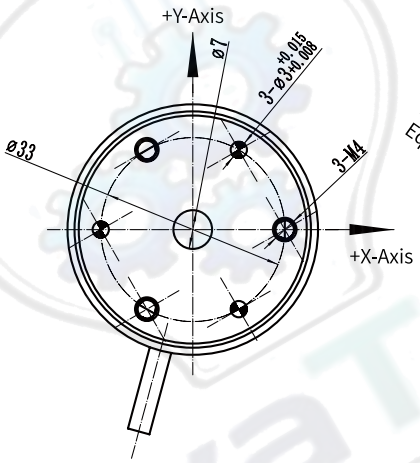
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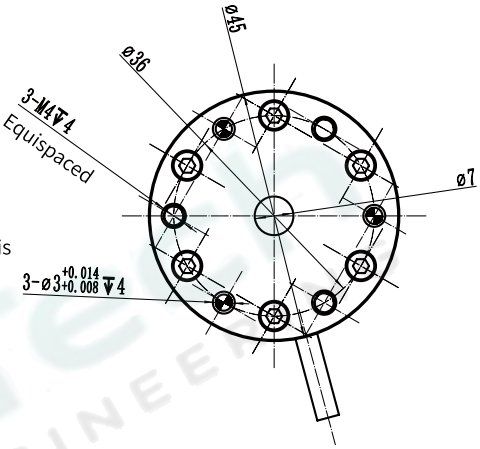
DYDW-γ45 Multi-axial force sensor











Product Reviews

Characteristic

Made of high strength high quality 17-4PH stainless steel, with yield strength, high overload capacity. The international high standard strain gauge chip can achieve high resolution, high response frequency and high test accuracy. 100% autonomous structure design, factory carefully tested, coupling accuracy is extremely high. A variety of communication interface protocols can be selected, basically covering domestic and foreign mainstream collaborative robot interfaces. Provide debugging software or test software. Flexible cable with high bending resistance.

Application Area

- Rehabilitation Medical Equipment
- Biobiomimetic Experiments
- Vehicle Lift Test
- Machine human control grinding, assembly, dragging teaching and various scientific research.

γ45 Series Common Specification Model				
Model		γ45-20NX6	γ45-50NX6	γ45-200NX6
Range	Fx/Fy/Fz	20N/20N/20N	50N/50N/50N	200N/200N/200N
	Tx/Ty/Tz	0.5N.m	2N.m	5N.m

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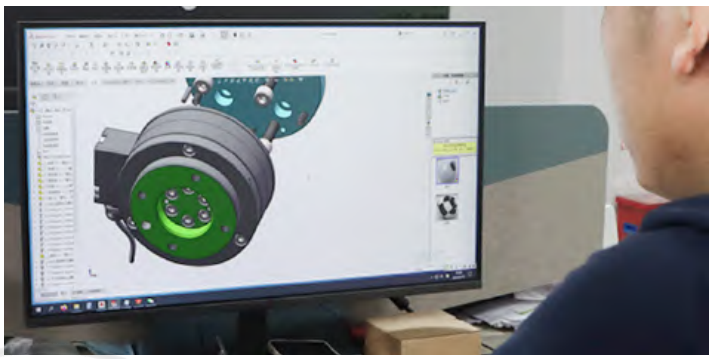
DYDW-γ45 Multi-axial force sensor

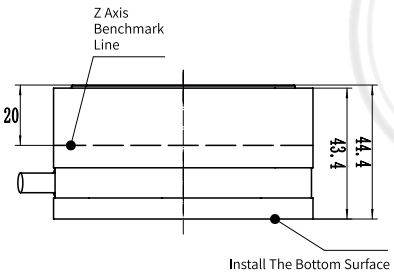
Parameters Table	
Mechanical Features	
Weight	~140g
Material quality	Aluminium Alloy/17-4PH
Size	Φ45mm×20mm
Levels Of Protection	IP65
Overload Capacity	300%F.S
Stiffness (Calculation)	Fx 1.6x10^7 N/m
	Fy 1.6x10^7 N/m
	Fz 1.3x10^7 N/m
	Tx 6059.99Nm/rad
	Ty 6059.99Nm/rad
	Tz 10056.99Nm/rad
Electrical Features	
Input / Output Impedance	350 Ω
Communication Interface	Mv matrix
Working Voltage	5-15V DC
Cable Length	5m
Accuracy Class	
Resolution Ratio	Better than 0.1%FS
Nolinear	Better than 0.2%FS
Accuracy	Better than 0.3%FS
Repeatability	Better than 0.2%FS
Coupling Accuracy	Better than 1.5%FS
Hysteresis Accuracy	Better than 0.3%FS
Temperature Features	
Temperature Zero Drift	0.2%F.S/10℃
Zero Drift	0.1%F.S/30min
Storage Temperature	-25℃ ~ 70℃
Service Environment	0℃ ~ 40℃，20 ~ 80% RH
Extended Interface	0±10v, /Ethercat,/Modbus-TCP,/Ethernet,/Canopen,/Modbus-RTU

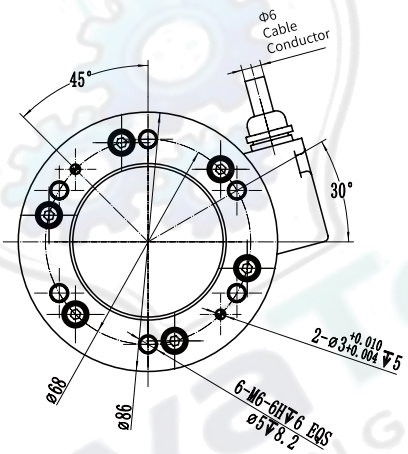
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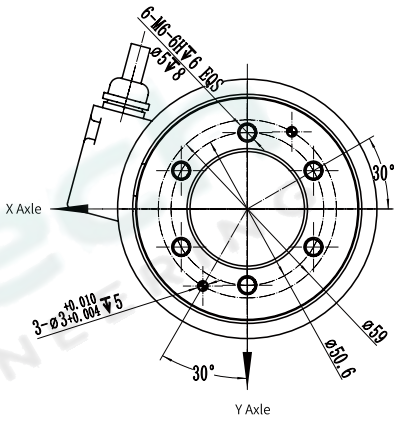
DYDW-γ74 Multi-axial force sensor











Product Reviews

Characteristic

Made of high strength high quality 17-4PH stainless steel, with yield strength, high overload capacity. The international high standard strain gauge chip can achieve high resolution, high response frequency and high test accuracy. 100% autonomous structure design, factory carefully tested, coupling accuracy is extremely high. A variety of communication interface protocols can be selected, basically covering domestic and foreign mainstream collaborative robot interfaces. Provide debugging software or test software. Flexible cable with high bending resistance.

Application Area

- Rehabilitation Medical Equipment
- Biobiomimetic Experiments
- Vehicle Lift Test
- Machine human control grinding, assembly, dragging teaching and various scientific research.

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DYDW-γ74 Multi-axial force sensor

Parameters Table	
Mechanical Features	
Weight	~800g
Material quality	Stainless Steel/17-4PH
Size	Φ125mm×67.5mm
Levels Of Protection	IP65
Overload Capacity	300%F.S
Stiffness (Calculation)	Fx 1.6x10^7 N/m
	Fy 1.6x10^7 N/m
	Fz 1.3x10^7 N/m
	Tx 6059.99Nm/rad
	Ty 6059.99Nm/rad
	Tz 10056.99Nm/rad
Electrical Features	
Input / Output Impedance	350 Ω
Communication Interface	Mv matrix
Working Voltage	5-15V DC
Cable Length	5m
Accuracy Class	
Resolution Ratio	Better than 0.1%FS
Nolinear	Better than 0.2%FS
Accuracy	Better than 0.3%FS
Repeatability	Better than 0.2%FS
Coupling Accuracy	Better than 1.5%FS
Hysteresis Accuracy	Better than 0.3%FS
Temperature Features	
Temperature Zero Drift	0.2%F.S/10℃
Zero Drift	0.1%F.S/30min
Storage Temperature	-25℃~70℃
Service Environment	0℃~40℃，20~80% RH
Extended Interface	0±10v, /Ethercat,/Modbus-TCP,/Ethernet,/Canopen,/Modbus-RTU

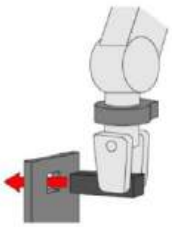
γ74 Series Common Specification Model

γ74	Fxy (N)	Fz (N)	Mxy (Nm)	Mz (Nm)	Weight (kg)	Flange Size
50NX6	50	50	1	1	1.2	Φ86
100NX6	100	100	2	2	1.2	Φ86
200NX6	200	200	5	5	1.2	Φ86
500NX6	500	500	10	10	1.2	Φ86
1kNX6	1000	1000	20	20	1.2	Φ86
2kNX6	2000	2000	50	50	1.2	Φ86
5KNX6	5000	5000	100	100	1.2	Φ86

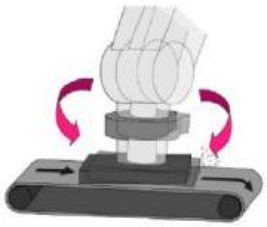
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DYDW-γ80 Multi-axial force sensor





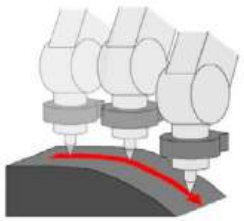
Assemble



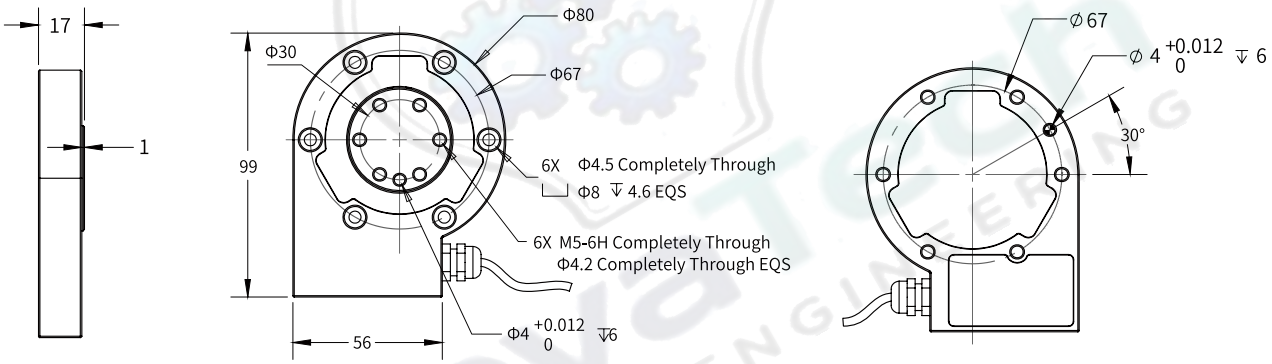
Polishing



Screw Home



Find The Outline



Product Reviews

Characteristic

Made of high strength high quality 17-4PH stainless steel, with yield strength, high overload capacity. The international high standard strain gauge chip can achieve high resolution, high response frequency and high test accuracy. 100% autonomous structure design, factory carefully tested, coupling accuracy is extremely high. A variety of communication interface protocols can be selected, basically covering domestic and foreign mainstream collaborative robot interfaces. Provide debugging software or test software. Flexible cable with high bending resistance.

Application Area

- Rehabilitation Medical Equipment
- Biobiomimetic Experiments
- Vehicle Lift Test
- Machine human control grinding, assembly, dragging teaching and various scientific research.

γ80 Series Common Specification Model				
Model		γ80-50NX6	γ80-200NX6	γ80-500NX6
Range	Fx/Fy/Fz	50N/50N/50N	200N/200N/200N	500N/500N/500N
	Tx/Ty/Tz	2N.m	5N.m	10N.m

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DYDW-γ80 Multi-axial force sensor

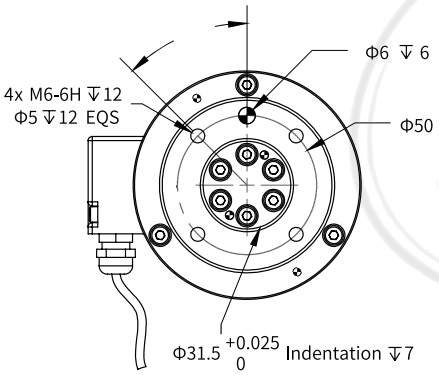
Parameters Table	
Mechanical Features	
Weight	~220g
Material quality	Aluminium Alloy
Size	Φ80mm×17mm
Levels Of Protection	IP65
Overload Capacity	300%F.S
Stiffness (Calculation)	Fx 1.6x10^7 N/m
	Fy 1.6x10^7 N/m
	Fz 1.3x10^7 N/m
	Tx 6059.99Nm/rad
	Ty 6059.99Nm/rad
	Tz 10056.99Nm/rad
Electrical Features	
Input / Output Impedance	350 Ω
Communication Interface	Mv matrix
Working Voltage	5-15V DC
Cable Length	5m
Accuracy Class	
Resolution Ratio	Better than 0.1%FS
Nolinear	Better than 0.2%FS
Accuracy	Better than 0.3%FS
Repeatability	Better than 0.2%FS
Coupling Accuracy	Better than 1.5%FS
Hysteresis Accuracy	Better than 0.3%FS
Temperature Features	
Temperature Zero Drift	0.2%F.S/10℃
Zero Drift	0.1%F.S/30min
Storage Temperature	-25℃~70℃
Service Environment	0℃~40℃，20~80% RH
Extended Interface	0±10v, /Ethercat,/Modbus-TCP,/Ethernet,/Canopen,/Modbus-RTU

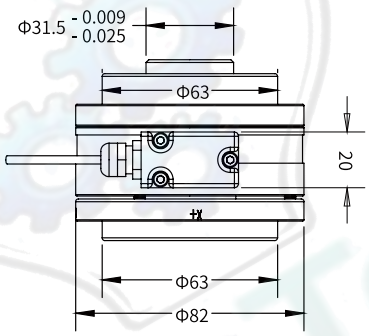
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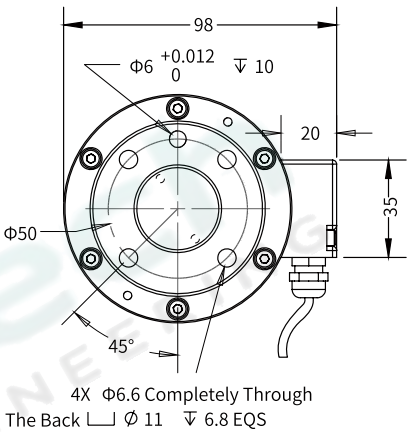
DYDW-γ82 Multi-axial force sensor











Product Reviews

Characteristic

Made of high strength high quality 17-4PH stainless steel, with yield strength, high overload capacity. The international high standard strain gauge chip can achieve high resolution, high response frequency and high test accuracy. 100% autonomous structure design, factory carefully tested, coupling accuracy is extremely high. A variety of communication interface protocols can be selected, basically covering domestic and foreign mainstream collaborative robot interfaces. Provide debugging software or test software. Flexible cable with high bending resistance.

Application Area

- Rehabilitation Medical Equipment
- Biobiomimetic Experiments
- Vehicle Lift Test
- Machine human control grinding, assembly, dragging teaching and various scientific research.

γ82 Series Common Specification Model				
Model		γ82-50NX6	γ82-200NX6	γ82-500NX6
Range	Fx/Fy/Fz	50N/50N/50N	200N/200N/200N	500N/500N/500N
	Tx/Ty/Tz	2N.m	10N.m	20N.m

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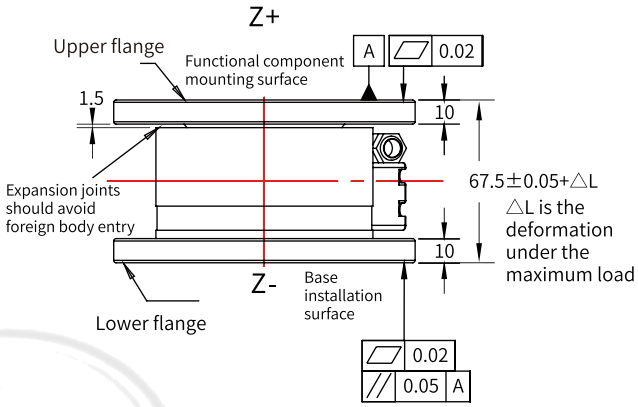
DYDW-γ82 Multi-axial force sensor

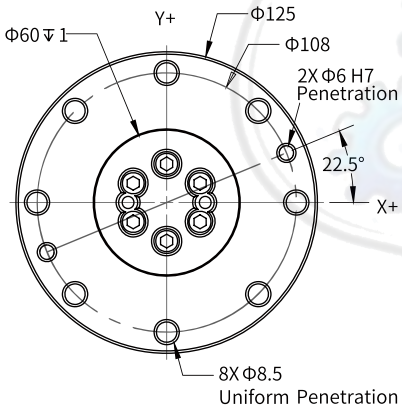
Parameters Table	
Mechanical Features	
Weight	~220g
Material quality	Aluminium Alloy
Size	Φ80mm×17mm
Levels Of Protection	IP65
Overload Capacity	300%F.S
Stiffness (Calculation)	Fx 1.6x10^7 N/m
	Fy 1.6x10^7 N/m
	Fz 1.3x10^7 N/m
	Tx 6059.99Nm/rad
	Ty 6059.99Nm/rad
	Tz 10056.99Nm/rad
Electrical Features	
Input / Output Impedance	350 Ω
Communication Interface	Mv matrix
Working Voltage	5-15V DC
Cable Length	5m
Accuracy Class	
Resolution Ratio	Better than 0.1%FS
Nolinear	Better than 0.2%FS
Accuracy	Better than 0.3%FS
Repeatability	Better than 0.2%FS
Coupling Accuracy	Better than 1.5%FS
Hysteresis Accuracy	Better than 0.3%FS
Temperature Features	
Temperature Zero Drift	0.2%F.S/10℃
Zero Drift	0.1%F.S/30min
Storage Temperature	-25℃~70℃
Service Environment	0℃~40℃，20~80% RH
Extended Interface	0±10v, /Ethercat,/Modbus-TCP,/Ethernet,/Canopen,/Modbus-RTU

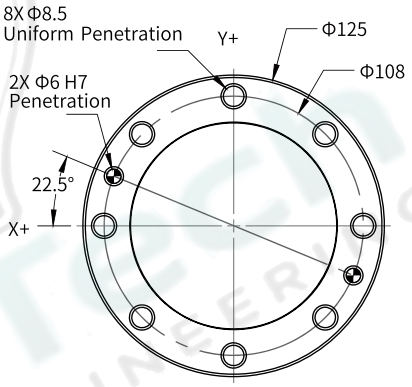
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DYDW-γ125 Multi-axial force sensor









Product Reviews

Characteristic

Made of high strength high quality 17-4PH stainless steel, with yield strength, high overload capacity. The international high standard strain gauge chip can achieve high resolution, high response frequency and high test accuracy. 100% autonomous structure design, factory carefully tested, coupling accuracy is extremely high. A variety of communication interface protocols can be selected, basically covering domestic and foreign mainstream collaborative robot interfaces. Provide debugging software or test software. Flexible cable with high bending resistance.

Application Area

- Rehabilitation Medical Equipment
- Biobiomimetic Experiments
- Vehicle Lift Test
- Machine human control grinding, assembly, dragging teaching and various scientific research.

γ125 Series Common Specification Model				
Model		γ125-3KNX6	γ125-10KNX6	γ125-20KNX6
Range	Fx/Fy/Fz	3KN/3KN/3KN	10KN/10KN/10KN	20KN/20KN/20KN
	Tx/Ty/Tz	100N.m	300N.m	500N.m

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DYDW-γ125 Multi-axial force sensor

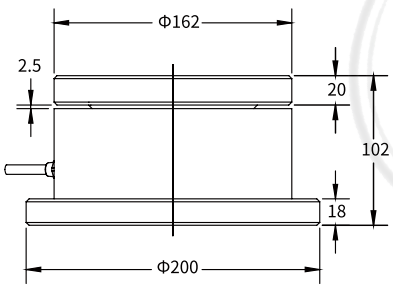
Parameters Table	
Mechanical Features	
Weight	~3kg
Material quality	Stainless Steel/17-4PH
Size	Φ80mm×17mm
Levels Of Protection	IP65
Overload Capacity	300%F.S
Stiffness (Calculation)	Fx 1.6x10^7 N/m
	Fy 1.6x10^7 N/m
	Fz 1.3x10^7 N/m
	Tx 6059.99Nm/rad
	Ty 6059.99Nm/rad
	Tz 10056.99Nm/rad
Electrical Features	
Input / Output Impedance	350 Ω
Communication Interface	Mv matrix
Working Voltage	5-15V DC
Cable Length	5m
Accuracy Class	
Resolution Ratio	Better than 0.1%FS
Nolinear	Better than 0.2%FS
Accuracy	Better than 0.3%FS
Repeatability	Better than 0.2%FS
Coupling Accuracy	Better than 1.5%FS
Hysteresis Accuracy	Better than 0.3%FS
Temperature Features	
Temperature Zero Drift	0.2%F.S/10℃
Zero Drift	0.1%F.S/30min
Storage Temperature	-25℃~70℃
Service Environment	0℃~40℃，20~80% RH
Extended Interface	0±10v, /Ethercat,/Modbus-TCP,/Ethernet,/Canopen,/Modbus-RTU

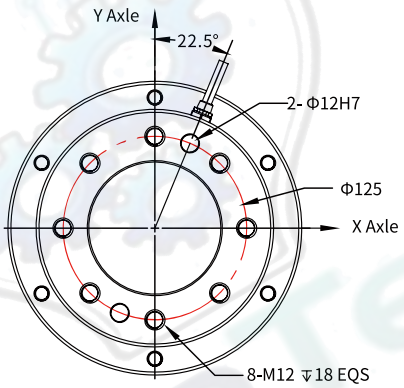
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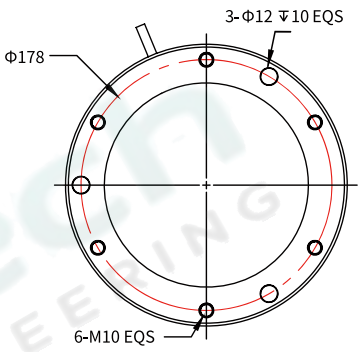
DYDW-γ200 Multi-axial force sensor











Product Reviews

Characteristic

Made of high strength high quality 17-4PH stainless steel, with yield strength, high overload capacity. The international high standard strain gauge chip can achieve high resolution, high response frequency and high test accuracy. 100% autonomous structure design, factory carefully tested, coupling accuracy is extremely high. A variety of communication interface protocols can be selected, basically covering domestic and foreign mainstream collaborative robot interfaces. Provide debugging software or test software. Flexible cable with high bending resistance.

Application Area

- Rehabilitation Medical Equipment
- Biobiomimetic Experiments
- Vehicle Lift Test
- Machine human control grinding, assembly, dragging teaching and various scientific research.

γ200 Series Common Specification Model				
Model		γ200-30KNX6	γ200-60KNX6	γ200-100KNX6
Range	Fx/Fy/Fz	30KN/30KN/30KN	60KN/60KN/60KN	100KN/100KN/100KN
	Tx/Ty/Tz	1000N.m	3000N.m	5000N.m

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DYDW-γ200 Multi-axial force sensor

Parameters Table	
Mechanical Features	
Weight	~220g
Material quality	Aluminium Alloy
Size	Φ80mm×17mm
Levels Of Protection	IP65
Overload Capacity	300%F.S
Stiffness (Calculation)	Fx 1.6x10^7 N/m
	Fy 1.6x10^7 N/m
	Fz 1.3x10^7 N/m
	Tx 6059.99Nm/rad
	Ty 6059.99Nm/rad
	Tz 10056.99Nm/rad
Electrical Features	
Input / Output Impedance	350 Ω
Communication Interface	Mv matrix
Working Voltage	5-15V DC
Cable Length	5m
Accuracy Class	
Resolution Ratio	Better than 0.1%FS
Nolinear	Better than 0.2%FS
Accuracy	Better than 0.3%FS
Repeatability	Better than 0.2%FS
Coupling Accuracy	Better than 1.5%FS
Hysteresis Accuracy	Better than 0.3%FS
Temperature Features	
Temperature Zero Drift	0.2%F.S/10℃
Zero Drift	0.1%F.S/30min
Storage Temperature	-25℃~70℃
Service Environment	0℃~40℃，20~80% RH
Extended Interface	0±10v, /Ethercat,/Modbus-TCP,/Ethernet,/Canopen,/Modbus-RTU

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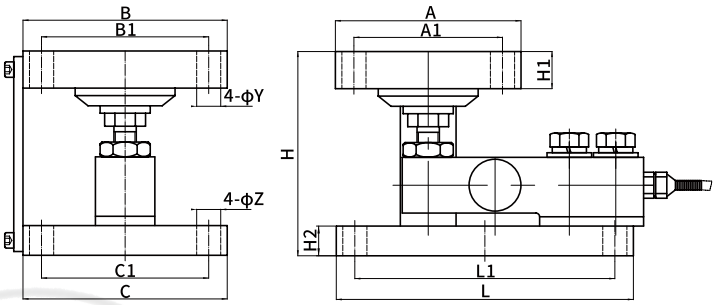
10 WEIGHING MODULES



The cantilever weighing module is combined and cantilever beam weighing sensor can be used a practical structure accessories.

DYMK-001 Weighing Modules





Product Reviews

Characteristic

The cantilever weighing module is combined and cantilever beam weighing sensor can be used a practical structure accessories, it is a combination of two boards, roof, substrate, plus the sensor, and support column and supporting bolts, the characteristics of the weighing module is not limited by the site, general hopper scale are three corners or four corners, or the tank container on both sides, also not the area.

Application Area

- It is used in large material tank, bin weighing, reaction kettle, hopper and vertical tank weighing application.

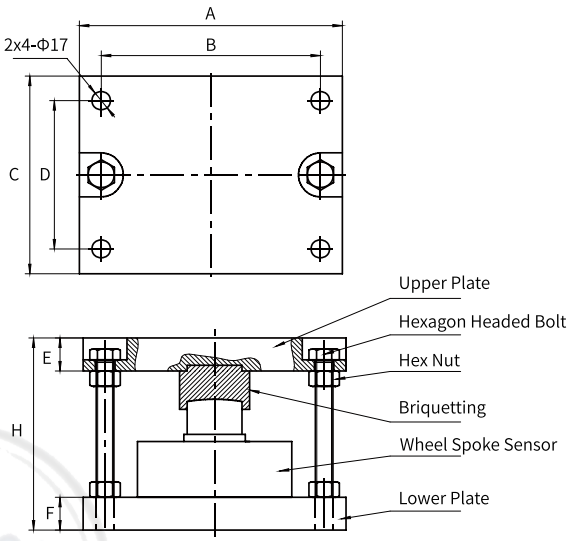
Parameters Table			
Range	0-15T	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-10v
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.05%F.S.	Extreme overload	150%
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	Al	B	B1	C	C1	L	L1	H	H1	H2	Y	Z
0.1-2	100	80	110	90	110	90	160	140	110	20	16	13	13
3-5	150	122	110	80	110	80	228	200	131	26.5	24.5	13	13
10-15	180	140	140	100	140	100	290	250	157.5	30	30	22	22

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DYMK-002 Weighing Modules





Product Reviews

Characteristic

The sensor elastomer is a pore structure. The whole structure is like a wheel, and multiple spokes form between the hub and the tire. External loads are applied to the upper end face of the center. The hub, spokes and tires together form multiple shear beams with fixed supports on both sides. The shear stress elastomer of the hole structure has low appearance and good stability.

It is insensitive to bending moments and has a good linearity. Large transverse stiffness, strong resistance to lateral and eccentric loads. The integrated structure is symmetrical, and the thermal expansion in different directions coincides with each other. The temperature coefficient is small.

Application Area

- Platform Weighing Scale
- Truck Scale
- Orbital Ground Pound
- Barster, storage tank, bucket tank scale and other weighing equipment.
- It is used in large material tank, bin weighing, reaction kettle, hopper and vertical tank weighing application.

Parameters Table

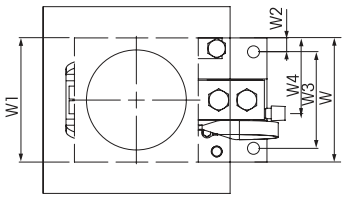
Range	0-100T	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±0.002mV/V	Impedance	700/1400Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S.	Cable line specifications	ϕ5x5m
Xero point temperature drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

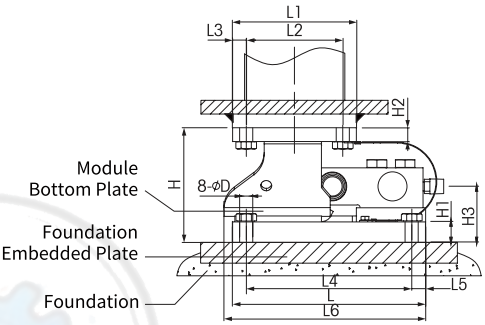
Range (T)	A	B	C	D	E	F	H
1-5	200	170	150	120	24	19	110
10-20	200	160	160	125	25	25	145
30	240	200	180	135	30	30	175
40-60	240	200	180	135	30	30	175
80	330	270	240	170	35	35	235
100	330	270	240	170	35	35	210

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DYMK-003 Weighing Modules







Product Reviews

Characteristic

High precision, high reliability, safety, anti-overturning bolt, 360° horizontal limit to avoid the tank under a large horizontal force of damage, vertical limit to ensure safety, eliminate the tank collapse. Dynamic load, static load multifunctional, stable weighing reading, ensure weighing accuracy, reduce maintenance cost. The roof axial symmetry design requires the installation direction, the grounding cable prevents large current from causing damage to the sensor, and the transportation kit avoids damage to the sensor during installation and transportation.

Application Area

- It is used in large material tank, bin weighing, reaction kettle, hopper and vertical tank weighing application.

Parameters Table

Range	0-5T	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±0.002mV/V	Impedance	350/380Ω
Zero point output	±0.03%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	0.002%F.S.	Cable line specifications	ϕ5x5m
Xero point temperature drift	0.002%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

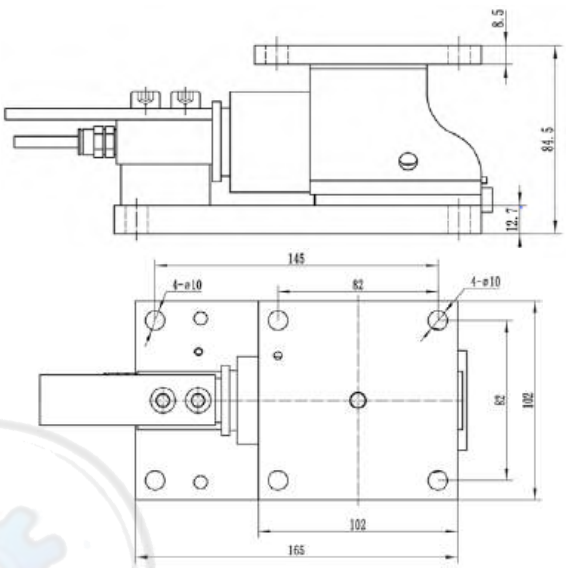
Range	D	H	H1	H2	H3	H4	L	L1	L2	L3	L4	L5	L6	W	W1	W2	W3	W4
10-100kg	10	83	12.7	8	41	10	165	102	82	10	145	10	-	102	102	10	82	60
100-300kg	11.2	105.2	19.1	12.7	50.9	15	177.9	114.4	89	12.7	152.4	12.7	185.6	114.4	114.1	12.7	89	66.6
300kg 500kg	11.2	105.2	19.1	12.7	50.9	15	177.9	114.4	89	12.7	152.4	12.7	185.6	114.4	114.1	12.7	89	66.6
2T 3T					51.3													69.7
5T	17.5	139.2	25.4	19.1	67.9	20	235	152.4	101.6	25.4	184.2	25.4	-	152.4	152.4	25.4	101.6	91.7

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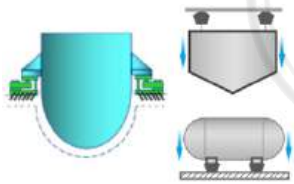
DYMK-004 Weighing Modules



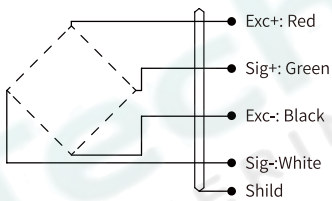




Force diagram of sensor



Sensor wiring diagram



Product Reviews

Characteristic

Unique structure, can be easily installed on a variety of tank support stable to prevent equipment overturning.

Application Area

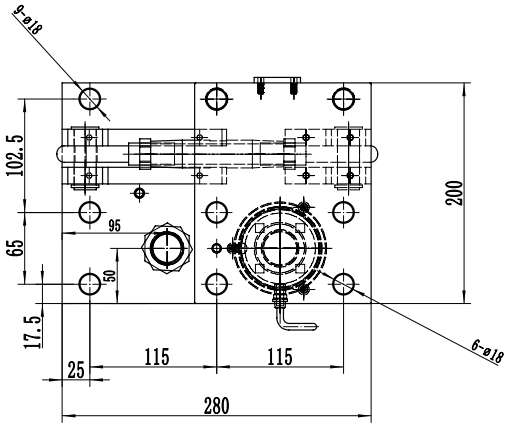
Weighing module can be easily and quickly used in various weighing systems: batching tank, reactor, tank, hopper, electronic truck scale, electronic platform scale, waterproof electronic scale, quantitative packaging scale, automatic weight check scale, electronic hook scale.

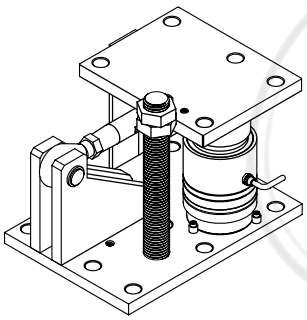
Parameters Table			
Range	10-300kg	Material quality	Alloy Steel
Output sensitivity	2.0/3.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-60℃
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.005%F.S.	Cable line specifications	ф5x3m
Xero point temperature drift	0.005%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

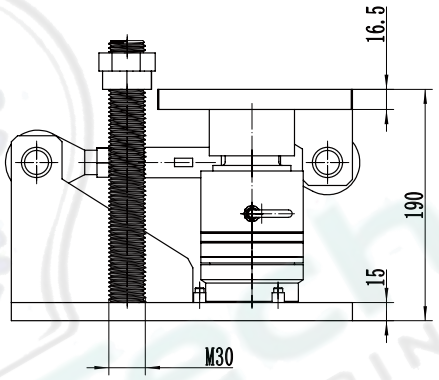
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DYMK-005 Weighing Modules









Product Reviews

Characteristic

Low height, large contact area, reasonable design structure, high comprehensive accuracy, and convenient installation. Covering a wide range of distances.

Application Area

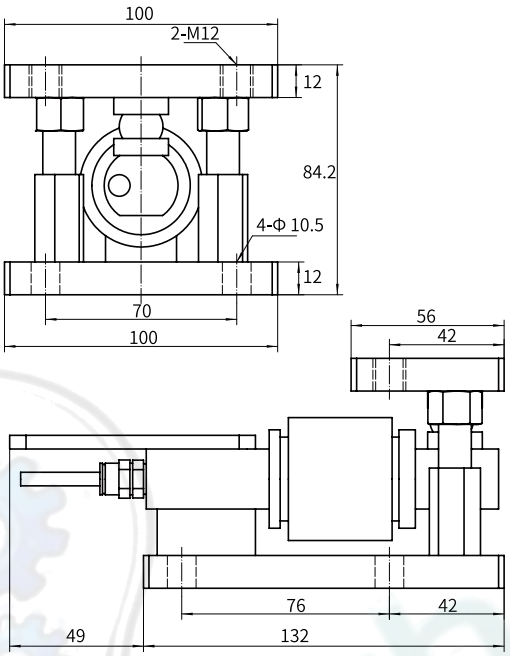
- Widely used in ingredient weighing fields such as reaction vessels, ingredient tanks, hoppers, silos, tanks, cement mixing plants, chemical, pharmaceutical, and food industries.

Parameters Table			
Range	0-40T	Material quality	Alloy Steel
Output sensitivity	2.0±0.1mV/V	Impedance	700Ω
Zero point output	±0.3%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5~15V DC
Hysteresis	0.03%F.S.	Operating temperature range	-20-80°C
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.02%F.S./10°C	Cable line specifications	ϕ5x5m
Xero point temperature drift	0.02%F.S./10°C	Cable limit tension	10kg
Response frequency	1kHz	TEDS	Selectable

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DYMK-006 Weighing Modules





Product Reviews

Characteristic

Optional stainless steel welded seal, protection grade IP68, can be used in various harsh environments, support bolts always maintain the vertical weighing state of the module to prevent equipment from overturning. Simple installation, fast, convenient maintenance, save shutdown maintenance time.

Application Area

- Suitable for chemical, pharmaceutical, food and other industries of small and medium weighing reactor ingredient process control.

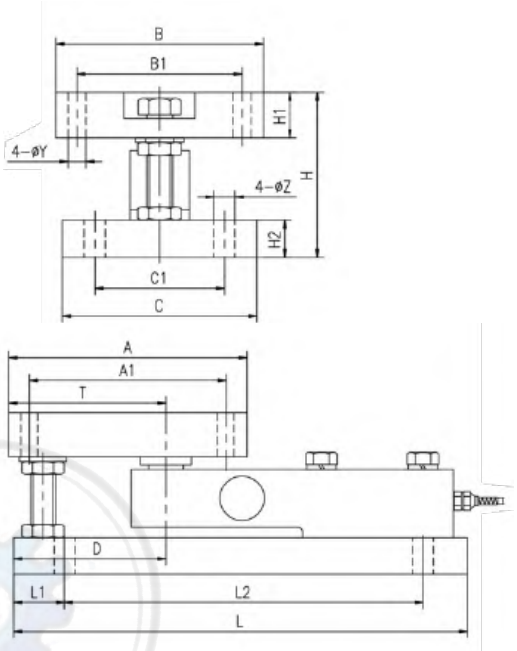
Parameters Table			
Range	0-500kg	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±0.002mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15v
Hysteresis	0.3%F.S.	Operating temperature range	-20-80℃
Repeatability	0.3%F.S.	Safe overload	150%
Creep (30 min)	0.1%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10℃	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (kg)					
10	20	50	100	200	500

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DYFW Weighing Modules





Product Reviews

Characteristic

It is composed of two boards, roof, substrate, plus this sensor, and support columns and supporting bolts. The weighing module is not limited by the site and does not occupy the area, the general hopper scale is three or four corners, or the two sides of the tank container.

Application Area

- It is used in large material tank, bin weighing, reaction kettle, hopper and vertical tank weighing application.

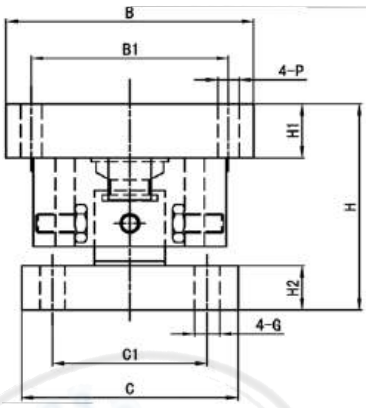
Parameters Table			
Range	0-25T	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±0.002mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥2000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80°C
Repeatability	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°C	Cable line specifications	ϕ5x5m
Xero point temperature drift	0.03%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

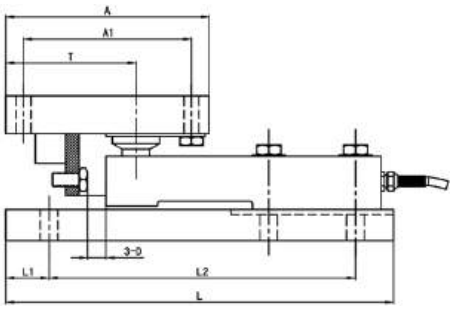
Range (T)	A	A1	B	B1	L	L1	L2	C	C1	H	H1	H2	Y	Z	T	D
0.5-3	150	124	128	102	286	32	226	112	80	102	28	23	13	13	99	96
5-8	178	146	152	120	317.5	32	257	152	102	130	38	29.5	17	17	102	99
10	184	152	154	122	360	32	295	154	106	168	45	45	21	21	108	105
15-25	220	170	220	170	400	25	350	220	170	213	55	55	26	26	115	115

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DYCW Weighing Modules







Product Reviews

Characteristic

Self-stabilizing pressure head design, always maintain the correct loading position, weighing repeatability. High quality alloy steel, surface nickel plating treatment explosion-proof application occasions, stainless steel material optional maintenance is convenient, save shutdown maintenance time.

Application Area

- Platform Weighing Scale
- Truck Scale
- Orbital Ground Pound
- Barster, storage tank, bucket tank scale and other weighing equipment.

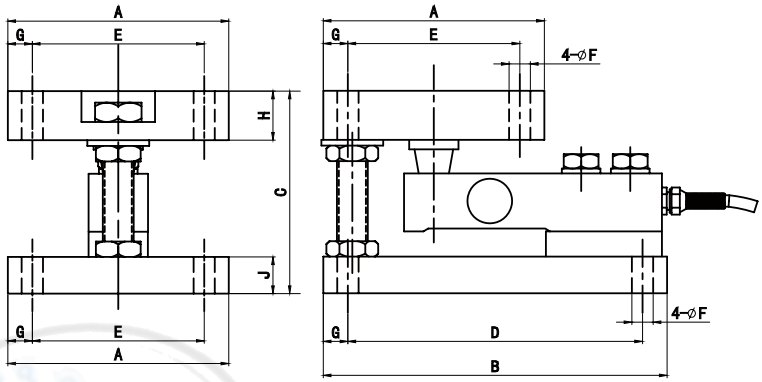
Parameters Table			
Range	0-20T	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±0.002mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80°C
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.02%F.S./10°C	Cable line specifications	ϕ5x2m
Xero point temperature drift	0.02%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (T)	L	L1	L2	A	A1	B	B1	C	C1	H	H1	H2	T	P	G	D
0.3/0.5/1/2/3	286	32	226	150	124	128	102	112	80	106.9	28	23	96	M10	ϕ13	1.6
5-8	317.5	32	257	178	146	152	120	152	102	146.2	38	30	99	M16	ϕ17	1.6
10	360	32	295	184	152	154	122	154	106	215.7	45	45	105	M20	ϕ21	3
15,20	400	25	350	220	170	220	170	220	170	255.7	55	55	115	M24	ϕ26	3

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DYFWC Weighing Modules





Product Reviews

Characteristic

It is composed of two boards, roof, substrate, plus this sensor, and support columns and supporting bolts. The weighing module is not limited by the site and does not occupy the area, the general hopper scale is three or four corners, or the two sides of the tank container.

Application Area

- It is used in large material tank, bin weighing, reaction kettle, hopper and vertical tank weighing application.

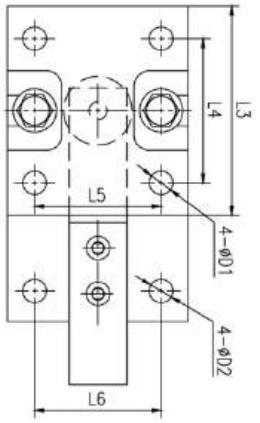
Parameters Table			
Range	0-20T	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80°C
Repeatability	0.02%F.S.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

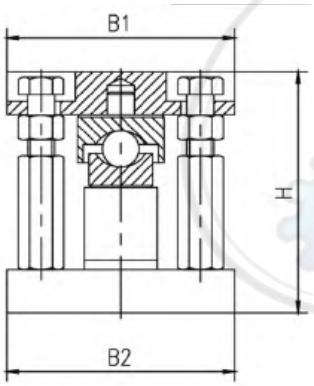
Range	A	B	C	D	E	ΦF	G	H	J	K
0-1000kg	114. 3	177.8	104. 8	152. 4	88.9	11	12.7	25.4	19	50.8
1-5T	152. 4	235	136. 5	184. 2	101.6	17.5	25.4	31. 8	25.4	65.1
10T	203.2	355.6	190. 5	304.8	152.4	20.6	25.4	44.5	44.5	96.8
20T	228.6	406.4	228.6	342.9	165.1	28.5	31.8	50.8	50.8	114

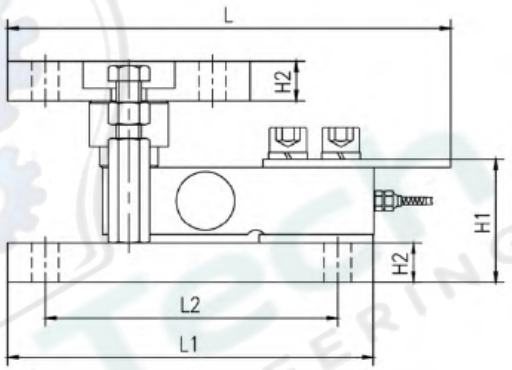
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DYMK-007 Weighing Modules









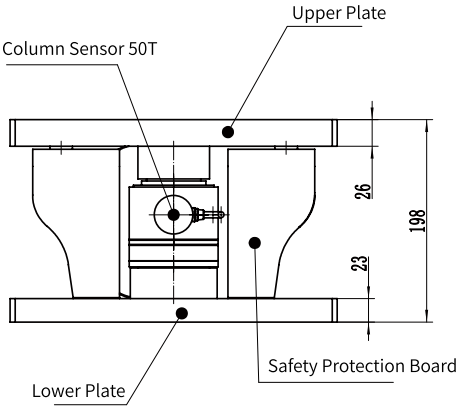
Parameters Table			
Range	0-10T	Material quality	Stainless Steel
Output sensitivity	2.0±0.002mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥2000MΩ/100VDC
Nolinear	0.03%F.S.	Service voltage	5-15V
Hysteresis	0.03%F.S.	Operating temperature range	-20-80°C
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.03%F.S./10°C	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.03%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

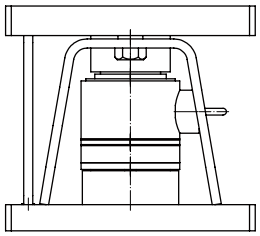
Range (T)	H1	H2	H3	B1	B2	D1	D2	L	L1	L2	L3	L4	L5	L6
0.25-2.5	106	58	18	100	100	13	13	210	175	140	116	80	70	70
3-5	135	73	23	150	150	17	17	270	235	200	150	100	90	90
7.5-10	164	93.3	38(above) 28.5(below)	180	180	26	26	345.2	310	250	210.4	150.4	110	110

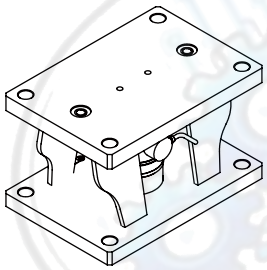
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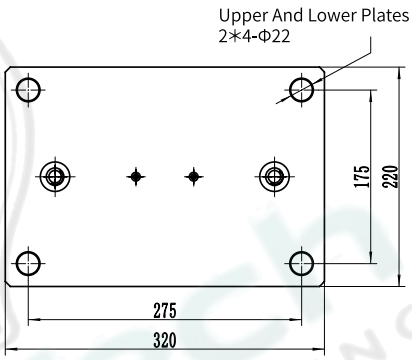
DYMK-008 Weighing Modules











Product Reviews

Characteristic

It is composed of two boards, roof, substrate, plus this sensor, and support columns and supporting bolts. The weighing module is not limited by the site and does not occupy the area, the general hopper scale is three or four corners, or the two sides of the tank container.

Application Area

- It is used in large material tank, bin weighing, reaction kettle, hopper and vertical tank weighing application.

Parameters Table			
Range	50T	Material quality	Stainless Steel/Alloy Steel
Output sensitivity	2.0±1mV/V	Impedance	350Ω
Zero point output	±0.3%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°C
Repeatability	0.03%F.S.	Safe overload	150%
Creep (30 min)	0.03%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.02%F.S./10°C	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.02%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

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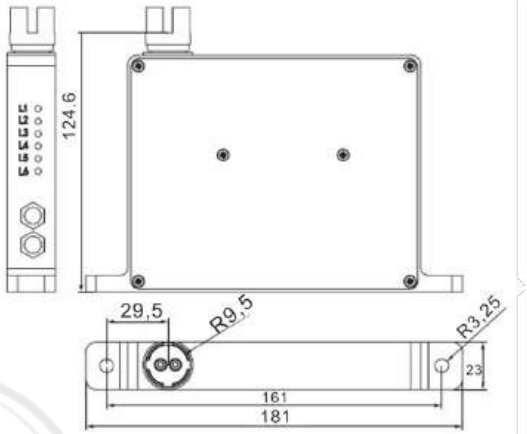
STRAIN TORQUE SENSOR

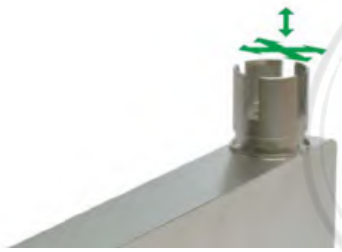


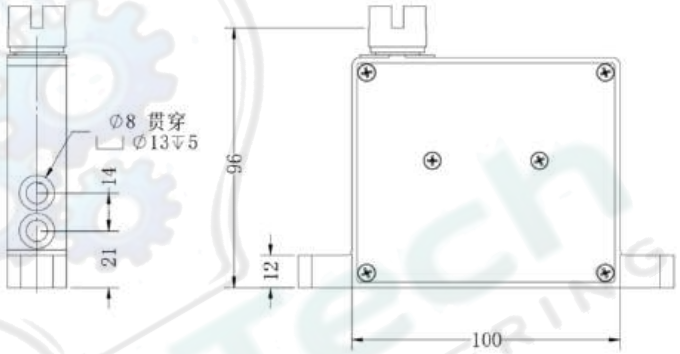
Strain torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

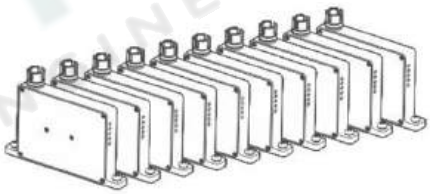
DYZY-001 Strain torque sensor











Product Reviews

Characteristic

The module occupies a small space can array array combination multi-line weighing, overload protection with overload protection device, in the weighing process will not damage the sensor due to overweight, array array combination 23mm module width, minimum 1mm array gap, so that the module can be in a limited space, to form more array array multi-line weighing, in order to improve efficiency in industrial production.

- Rs485 interface
- CAN interface
- Ethernet TCP interface

Application Area

- Suitable for weighing test of liquid injection system, tablets and capsules.

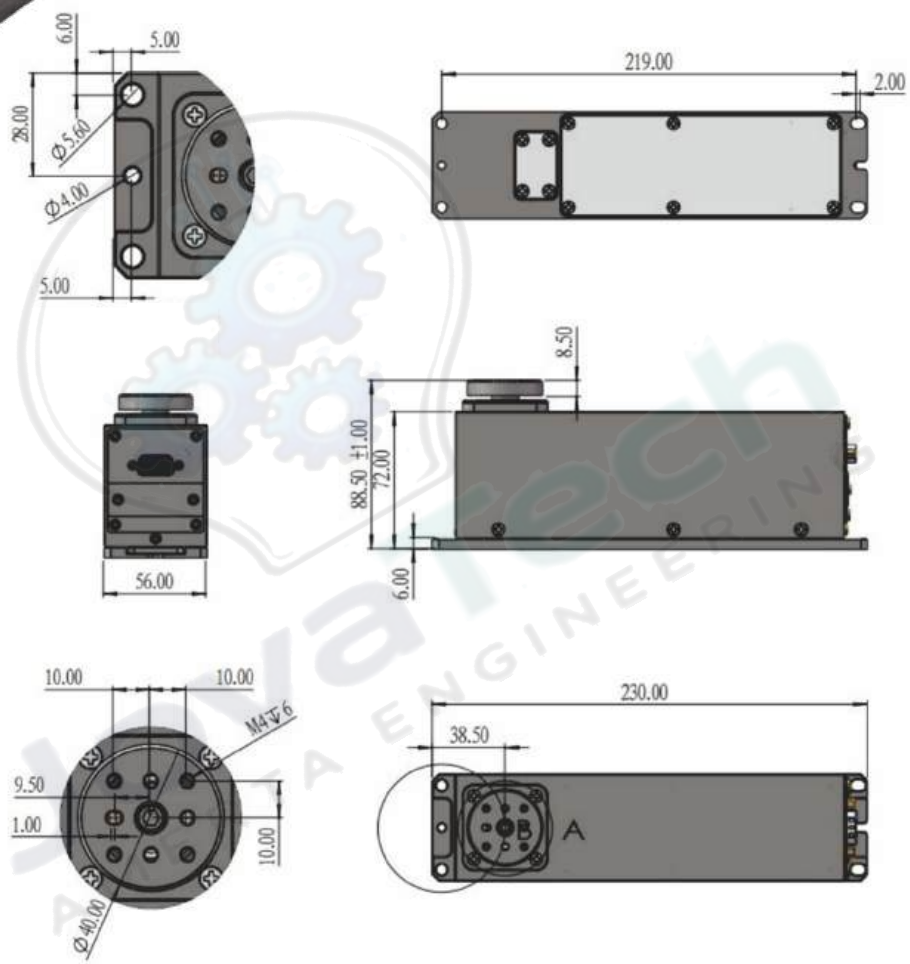
Parameters Table			
Power Supply	DC9~24V (refer to the nameplate)	Set address	1-239
Interface	Standard RS485 interface	Product resolution	600000
Broadcast address	255		

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DYDC-001 Strain torque sensor



Detailed dimension diagram of ϕ 40mm



Product Reviews

Characteristic

System integration, the best choice of automatic weighing scheme, high speed, high precision weighing module, designed to meet the demand of equipment or automatic weighing system integration tailored, weighing accurate, rapid response, using isoCAL automatic internal calibration and adjustment function, fully ensure the accuracy of the weighing results, compact structure, easy for installation, four shockproof technology meet your various weighing environment, the maximum safety protection level, using the new super monomer sensor technology-accurate, fast, stable and reliable.

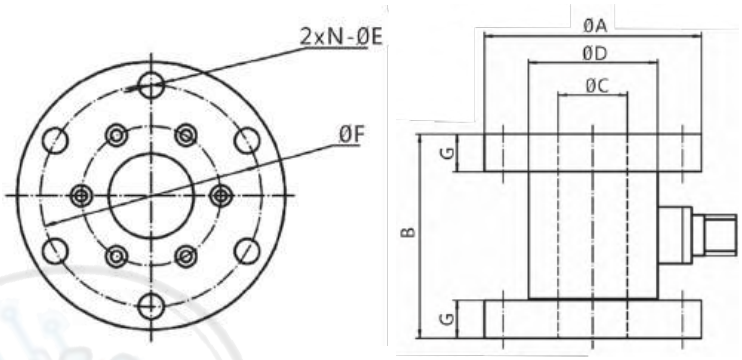
Application Area

- Electric Screw Driver
- Torque Spanner
- Wind Turbines, etc

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DYJN-101 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

Application Area

- Electric Screw Driver
- Torque Spanner
- Wind Turbines, etc

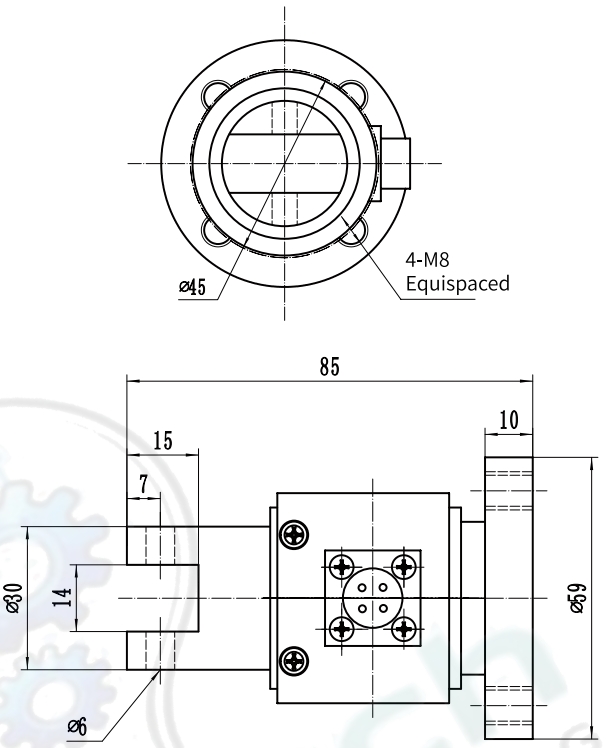
Parameters Table			
Range	0-10000N.m	Material quality	Alloy Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350/700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
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 (N.m)	A	B	C	D	E	F	N	G
1-30	69	65	14	41	6.5	57	6	12
30-300	69	65	22	41	6.5	57	6	12
500-1000	98	80	30	60	8.5	80	8	15
2000-5000	125	96	45	79	13	105	8	20
10000	160	120	40	101	17 Option M16	130	8	30
20000	210	120	/	112	22 Option M20	165	8	30
50000	280	160	/	180	26 Option M24	230	14	35
100000	340	200	/	218	32 Option M30	285	16	50

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DYJN-102 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

Application Area

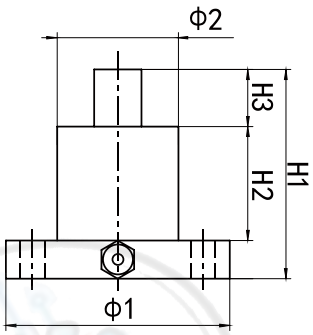
- Electric Screw Driver
- Torque Spanner
- Wind Turbines, etc

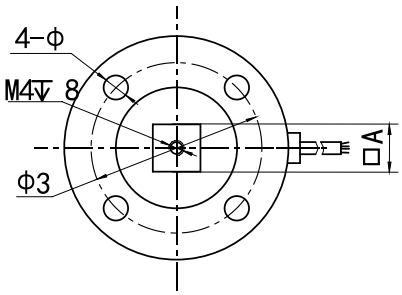
Parameters Table			
Range	0-200N.m	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
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 (N.m)					
10	20	30	50	100	200

DYJN-103 Strain torque sensor







Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

Application Area

- Electric Screw Driver
- Torque Spanner
- Wind Turbines, etc

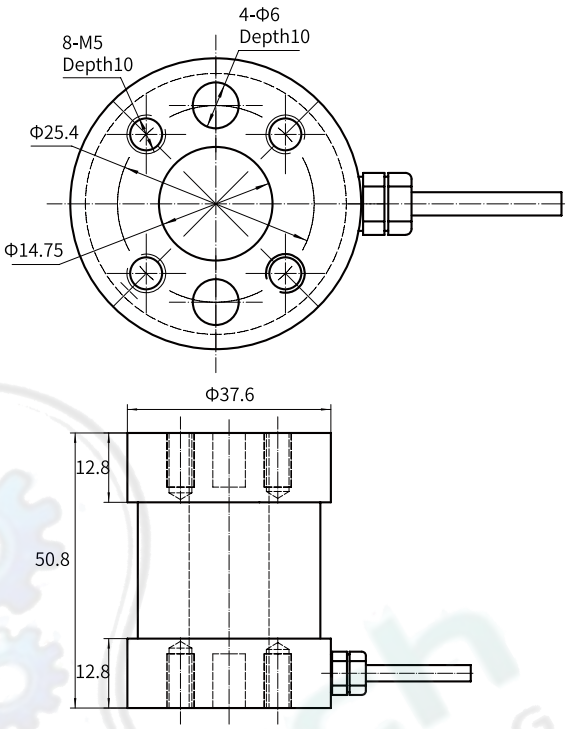
Parameters Table			
Range	0-3000N.m	Material quality	Alloy Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350/700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	Φ3x3m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (N.m)	A	H1	H2	H3	Φ1	Φ2	Φ3	Φ
2-200	12.5	55	30	15	59	32	45	6.5
300-800	25.4	75	40	24	68	40	55	8.5
1000-3000	25.4	85	44	24	98	56	80	13

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DYJN-104 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

Application Area

- Electric Screw Driver
- Torque Spanner
- Wind Turbines, etc

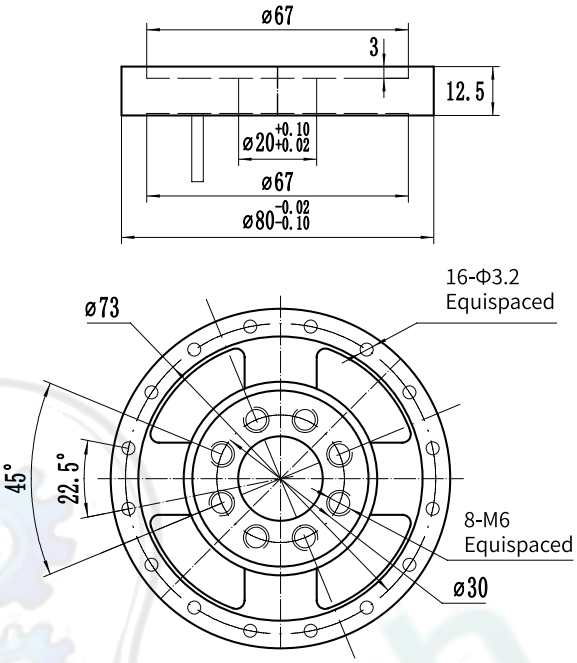
Parameters Table			
Range	0-150N.m	Material quality	Aluminium Alloy/Alloy Steel
Output sensitivity	2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80°C
Repeatability	0.05%F.S.	Safe overload	150%
Creep (30 min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10°C	Cable line specifications	ϕ3x2m
Xero point temperature drift	0.05%F.S./10°C	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (N.m)										
1	2	3	5	6	10	20	30	50	100	150

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DYJN-105 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

Application Area

- It is used for static non-continuous rotation, non-standard customization, anti-interference signal stability, widely used in test machine, torque wrench, steering machine, electric actuator, valve, transmission static load torque, hydraulic and other static torque test system.

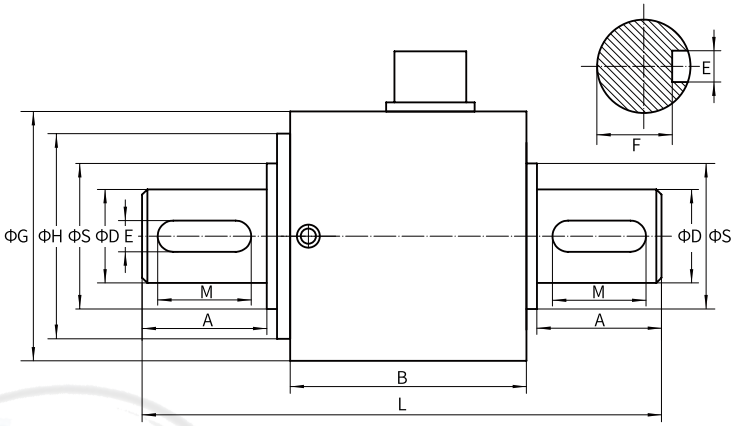
Parameters Table			
Range	0-200N.m	Material quality	Aluminium Alloy/Alloy Steel
Output sensitivity	1.5±0.5%	Impedance	700±5Ω
Zero point output	±0.5%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	±0.5%F.S.	Service voltage	5-15V
Hysteresis	±0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	±0.5%F.S.	Safe overload	150%
Creep (30 min)	0.3%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.3%F.S./10℃	Cable line specifications	ф3x2m
Xero point temperature drift	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (N.m)				
20	30	50	100	200

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DYJN-106 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

Application Area

- It is used for static non-continuous rotation, non-standard customization, anti-interference signal stability, widely used in test machine, torque wrench, steering machine, electric actuator, valve, transmission static load torque, hydraulic and other static torque test system.

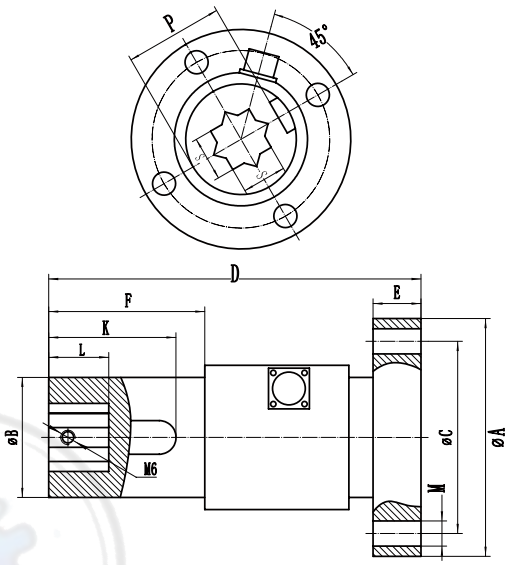
Parameters Table			
Range	0.1-5000N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350±5/700±5 Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	0.3%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10℃	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (N.m)	ΦD	L	A	B	M	E	F	ΦG	ΦS	ΦH
0.1-10	8	85	17	48	/	/	/	32	10	/
1-100	18	100	24	45.5	18	6	14.5	48	28	39.5
200-400	30	105	25	45	18	8	26	48	32	39.5
500-2000	50	210	73.5	54	60	14	44.5	68	52	59.5
3000-5000	70	238	75.5	76	70	20	62.5	88	72	78.5

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DYJN-107 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. Used to test the electric wrench, electric batch, electric screwdriver, etc., can output voltage or current signal.

Application Area

- For static non-continuous rotation, can be non-standard customization, anti-interference signal is stable.
- Widely used in torque wrench, electric batch, electric screwdriver, tool maintenance static load torque and other test systems.

Parameters Table

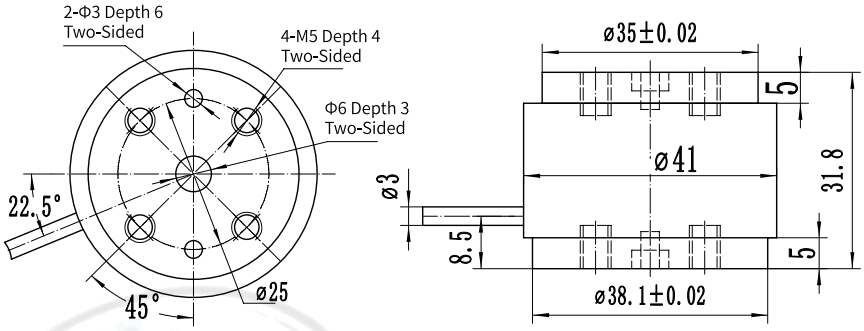
Range	0-1000N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350±5/700±5 Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	0.3%F.S.	Safe overload	120%
Creep (30 min)	0.1%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.1%F.S./10℃	Cable line specifications	ϕ5x3m
Xero point temperature drift	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	

Range (N.m)	ΦA	ΦB	ϕC	ΦW	E	D	F	K	L	N	S	P	M	ΦG	H1	
0-1000(short)	ϕ98	ϕ50	ϕ80	ϕ58	15	90	33	33	25	16	20	44	4-ϕ10.5	/	/	M6
0-1000 (long)	ϕ98	ϕ50	ϕ80	ϕ58	20	155	65	53	25	16	20	44	4-ϕ10.5	/	/	M6
2000	ϕ125	ϕ75	ϕ105	ϕ 83	20	150	65	60	30	20	25.5	67.5	8-ϕ12	ϕ60	6	/
3000-5000	ϕ125	ϕ75	ϕ105	ϕ 83	20	150	65	60	30	20	40.5	67.5	8-ϕ12	ϕ60	6	/

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DYJN-108 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. Used to test the electric wrench, electric batch, electric screwdriver, etc., can output voltage or current signal.

Application Area

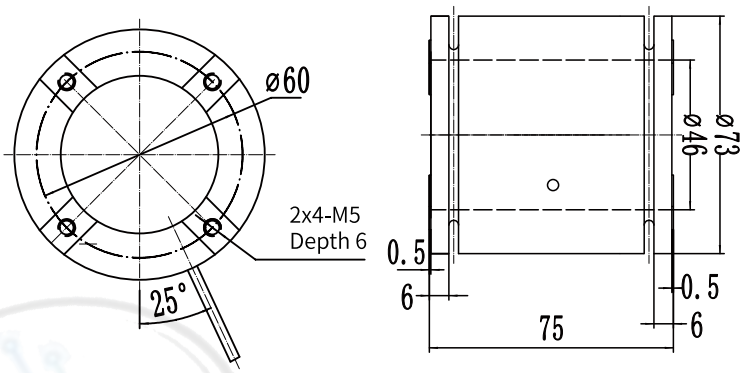
- For static non-continuous rotation, can be non-standard customization, anti-interference signal is stable.
- Widely used in torque wrench, electric batch, electric screwdriver, tool maintenance static load torque and other test systems.

Parameters Table			
Range	0.2-5k N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥2000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-10-50℃
Repeatability	0.2%F.S.	Safe overload	150%
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	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	

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DYJN-110 Strain torque sensor





Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. Used to test the electric wrench, electric batch, electric screwdriver, etc., can output voltage or current signal.

Application Area

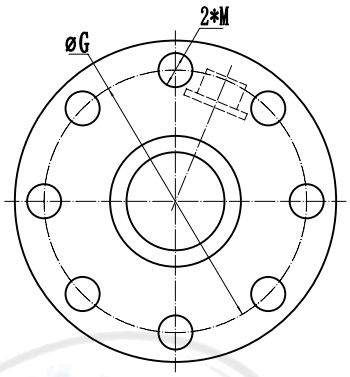
- For static non-continuous rotation, can be non-standard customization, anti-interference signal is stable.
- Widely used in torque wrench, electric batch, electric screwdriver, tool maintenance static load torque and other test systems.

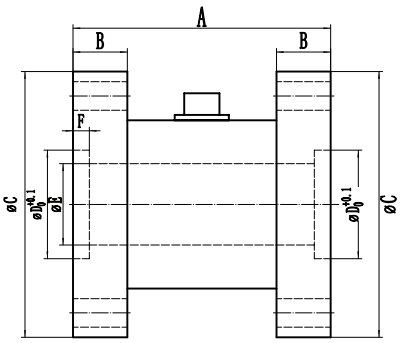
Parameters Table			
Range	0-200N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥2000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-10-50℃
Repeatability	0.2%F.S.	Safe overload	150%
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	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	

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DYJN-111 Strain torque sensor







Product Reviews

Characteristic

Static torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. Used to test the electric wrench, electric batch, electric screwdriver, etc., can output voltage or current signal.

Application Area

- For static non-continuous rotation, can be non-standard customization, anti-interference signal is stable.
- Widely used in torque wrench, electric batch, electric screwdriver, tool maintenance static load torque and other test systems.

Parameters Table			
Range	0-100000N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥2000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-10-50℃
Repeatability	0.2%F.S.	Safe overload	150%
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	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	

Range (N.m)	A	B	ΦC	ΦD	E	F	ΦG	M
0-100	85	10	59	22	12	5	49	4-Φ6.5
500-1000	95	20	98	40	30	6	80	8-Φ10.5
2000-5000	95	20	125	50	45	6	105	8-Φ12.5
10000	95	22	205	135	65	5	173	8-M18
20000-30000	115	26	245	155	50	5	205	8-M20
40000-60000	120	30	280	200	60	5	240	10-M20
100000	150	38	318	230	80	5	274	10-M24

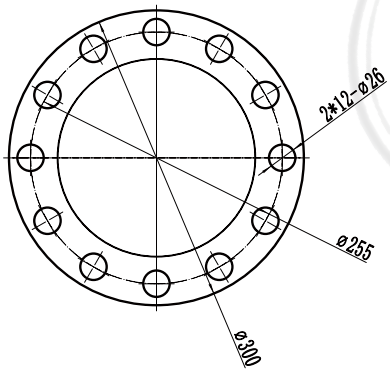
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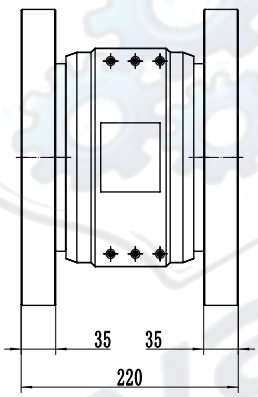
Tilt Angle Detection System

Strain torque sensor









Range: 100000N.m

Product Reviews

Characteristic

Torque inclination monitor is used to monitor the process parameters of drilling rig. The product is mainly composed of torque sensor, inclination sensor and monitoring host.
The torque sensor is installed between the drive head and the drill pipe, and the inclination sensor is installed on the drive head to monitor the torque of the drill pipe during the construction process and the tilt angle of the drill pipe in space. In addition, the upper limit can be preset according to different geological environment and construction tools. When the upper limit is exceeded, sound and optical alarm can be carried out. The data of the whole construction process can be produced and stored for a long time, which is convenient for the construction party to check and retrieve at any time.

Application Area

- For static non-continuous rotation, can be non-standard customization, anti-interference signal is stable.
- Widely used in torque wrench, electric batch, electric screwdriver, tool maintenance static load torque and other test systems.

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Tilt Angle Detection System

Strain torque sensor

Parameters

01 6000 mA high-density lithium battery

No need to replace the battery, continuous use for more than 50 hours.

02 2.4G + WIFI wireless communication technology

Long-term high-speed communication does not drop the frequency, the communication distance is more than 300 meters.

03 High quality high strength alloy steel production

Super strong seismic performance is stable, 3 times the overload capacity.

04 Traceability

The institute torque standard machine, the force value is accurate, the accuracy can reach 0.1%.

05 Protection level: IP66

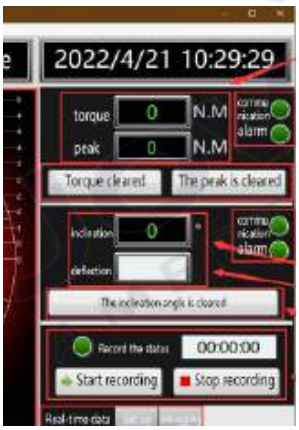
All devices are waterproof above IP66.

Characteristic



Accurate and easy to use

Accurate torque measurements above 0.1%.
10.1-inch industrial flat-panel display.



Real-time monitoring / alarm

Torque, angle, date, and time data can be recorded and viewed.



Simple installation

Install between the output shaft and the drive tool.



Excellent design and harsh engineering conditions

The WiFi display screen in the cab enables better and more stable data transmission.

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12

DYNAMIC TORQUE SENSOR

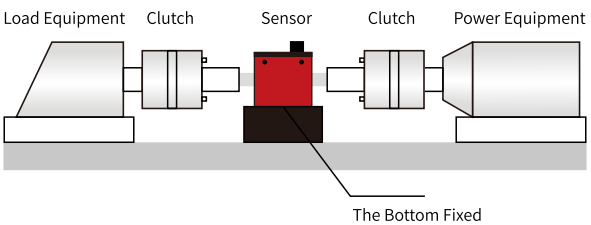


Strong anti-interference, high accuracy and good stability, small size, light weight, easy to install, can transfer static / rotation / static / dynamic torque signal.

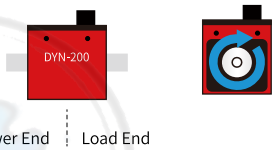
DYN-200 Dynamic torque sensor

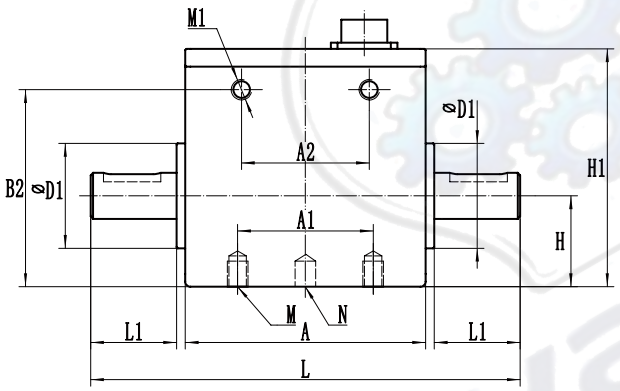


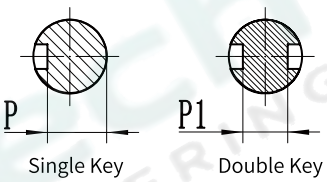
Installation Diagram

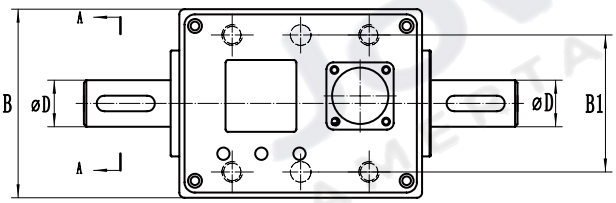


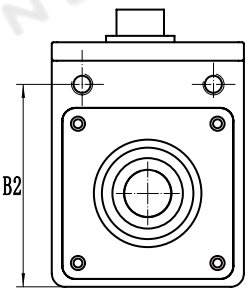
Force Diagram Of Sensor











Product Reviews

Characteristic

1. The current measured torque value and speed value are displayed in real time.
2. The current power value can be calculated directly.
3. Supports RS485 communication and active upload protocol.
4. The communication rate can reach 500 or 1000 times per second.
5. The sensor supports the simultaneous output of the converter current and the converter voltage.
6. The sensor has its own OLED display with a resolution of 128*64.
7. It can carry out simple calibration, zero clearing, filtering and other operations.
8. Allows sensor overload by 200%.
9. Accuracy achieved more than 1/1000 accuracy, excellent zero stability.

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DYN-200 Dynamic torque sensor

Parameters Table			
Range	0-20000N.m	Maximum Torsion Angle	2.60x10rad(0.149°)
Speed Range	≤15000rpm	Inertia Moment	0.38kgcm
Speed Signal	120/60/10 pulses/rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Zero point output	±0.05%F.S.	Torsional Constant	3.85x10Nm/rad
Nolinear	0.1%F.S.	Material quality	Stainless Steel
Hysteresis	0.5%F.S.	Annual Stability	0.3%/year
Repeatability	0.05%F.S.	Load Resistance	>2kΩ
Creep (30 Min)	0.03%F.S.	Service voltage	DC 24V 0.2A
Temperature sensitivity drift	0.05%F.S./10℃	Consumption Of Current	<150mA
Zero Point Temperature Drift	0.05%F.S./10℃	Work Environment	-10-50℃ 0-85%RH
Response Time	0.6ms (50% reaction)	Safe overload	150%
Response frequency	1kHz	Cable line specifications	ϕ5x3m
Picking Rate	1000 times/second	Cable limit tension	10kg
Indication Range	-199998		

Range (N.m)	Φdh7	B	L	L1	H	H1	A1	A2	B1	B2	D1
0.1-5NM (new)	Φ10	51	108	18	25.5	68	58	/	43	/	Φ12
0.1-5NM (old)	Φ10	73	148	23.6	35.5	93	53	50	53	77	Φ41
10. 20, 30, 50, 100	Φ18	73	168	33.6	35.5	93	53	50	53	77	Φ41
200, 300	Φ28	73	208	53.5	35.5	93	53	50	53	77	Φ51
500, 600, 800	Φ38	90	238	65.5	44	107.5	60	60	60	91	Φ61
1000, 2000, 3000, 5000	Φ60	120	258	75.5	60	138.5	60	70	75	122.5	Φ93
10000-20000	Φ98	160	356	100.5	80	191.6	80	80	120	157	Φ129

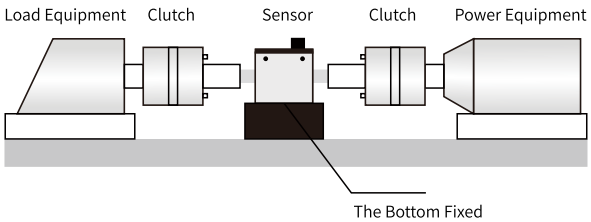
Range (N.m)	M	M1	N	Key (Width * Length)	P	P1
0.1-5NM (new)	4-M3 Depth 6	/	/	Single Key 3 * 15	8.2	/
0.1-5NM (old)	4-M8 Depth 10	8-M8 Depth 6	2-Φ8H7 Depth 10	Single Key 3 * 10	8.2	/
10. 20, 30, 50, 100	4-M8 Depth 10	8-M8 Depth 6	2-Φ8H7 Depth 10	Single Key 6 * 22	14.5	/
200, 300	4-M8 Depth 10	8-M8 Depth 6	2-Φ8H7 Depth 10	Single Key 8 * 28	24	/
500, 600, 800	4-M8 Depth 12	8-M8 Depth 12	2-Φ8H7 Depth 10	Double Key 10 * 45	/	28
1000, 2000, 3000, 5000	4-M10 Depth 15	8-M10 Depth 15	2-Φ10H7 Depth 15	Double Key 18 * 60	/	46
10000-20000	4-M12 Depth 25	4-M12 Depth 25		Double Key 28 * 90	/	78

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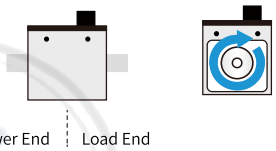
DYN-200 Pro Dynamic torque sensor

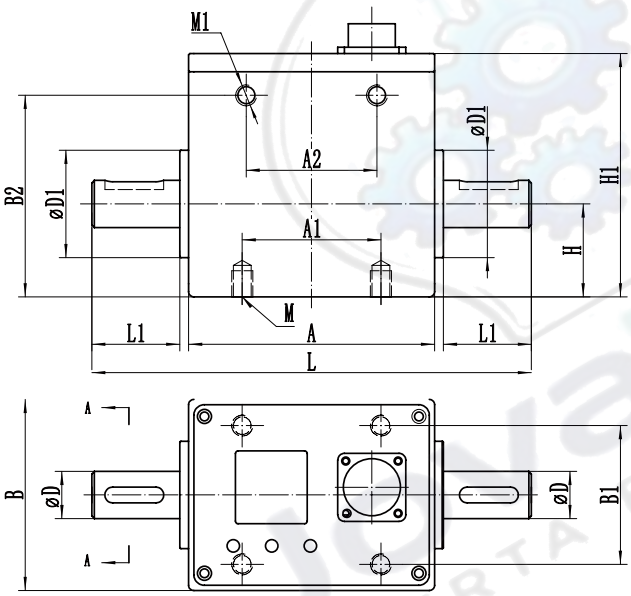


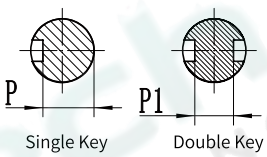
Installation Diagram

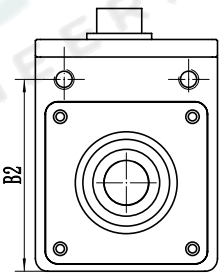


Force Diagram Of Sensor









Product Reviews

Characteristic

The DYN-200 PRO torque sensor is an upgrade of the DYN200 torque sensor. Torque and speed data can be displayed on its own OLED intelligent display screen, and specific parameters such as torque zero and coefficient calibration can be adjusted by pressing the button. Simple calibration and zero clearance operation can be carried out by the user without the instrument, which can be more convenient to use in the industrial field and torque testing work.

This sensor has strong stability and adaptability, support Ethernet output and RS485 communication, both support MODBUS RTU and MODBUS TCP, speed can be used OC output frequency signal. The speed frequency signal can be 60Hz, 120Hz, 2000Hz (2000Hz output signal is incremental ABZ signal, no frequency doubling, customers can be 4 times frequency, frequency doubling resolution can reach 0.045 degrees), all data does not need to go through frequency pressure conversion, which improves the anti-interference to a large extent. It greatly improves the stability and real-time performance of the transmission data.

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DYN-200 Pro Dynamic torque sensor

Parameters Table			
Range	20000N.m	Inertia Moment	0.38kgcm
Speed Range	≤18000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	60 Pulse/revolution	Torsional Constant	3.85x10Nm/rad
Zero point output	5-15KHz	Material quality	Stainless Steel
Nolinear	±0.2%F.S.	Annual Stability	0.3% / year
Hysteresis	0.1%F.S.	Load Resistance	>2kΩ
Repeatability	0.05%F.S.	Service voltage	DC 24V / ±15V
Creep (30 Min)	0.05%F.S.	Consumption Of Current	<0.2 A
Temperature sensitivity drift	0.03%F.S.	Work Environment	-10-50℃ 0-85%RH
Zero Point Temperature Drift	0.1%F.S./10℃	Safe overload	150%
Response Time	0.1%F.S./10℃	Cable line specifications	ф5x3m
Response frequency	0.6ms(50% reaction)	Cable limit tension	10kg
Picking Rate	1kHz	Cable limit tension	10kg
Indication Range	2.60x10rad(0.149°)		

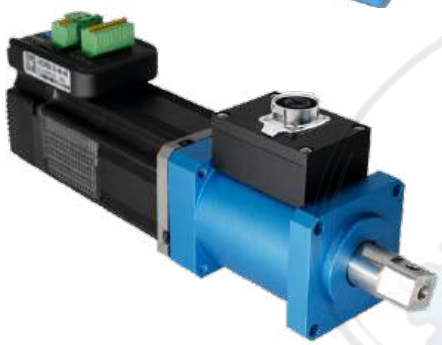
Range (N.m)	Φdh7	A	B	L	L1	H	H1	A1	A2	B1	B2
0.1-5	Φ10	94	73	148	23.6	35.5	93	53	50	53	77
10-100	Φ18	94	73	168	33.6	35.5	93	53	50	53	77
200-300	Φ28	94	73	208	53.5	35.5	93	53	50	53	77
500-800	Φ38	100	90	238	65.5	44	107.5	60	60	60	91
1000-5000	Φ60	100	120	258	75.5	60	138.5	60	70	75	122.5
10000-20000	Φ98	145	160	356	100.5	80	191.6	80	80	120	157

Range (N.m)	D1	M	M1	Key (Width * Length)	P	P1
0.1-5	Φ41	4-M8 Depth 10	8-M8 Depth 6	Single Key 3 * 10	8.2	/
10-100	Φ41	4-M8 Depth 10	8-M8 Depth 6	Single Key 6 * 22	14.5	/
200-300	Φ51	4-M8 Depth 10	8-M8 Depth 6	Single Key 10 * 50	24	/
500-800	Φ61	4-M8 Depth 12	8-M8 Depth 12	Double Key 10 * 45	/	28
1000-5000	Φ93	4-M10 Depth 15	8-M10 Depth 15	Double Key 18 * 60	/	46
10000-20000	Φ129	4-M12 Depth 25	4-M12 Depth 25	Double Key 28 * 90	/	78

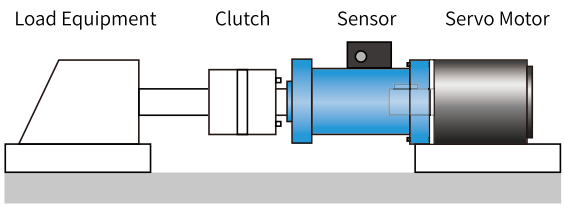
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DYN-201D Dynamic torque sensor

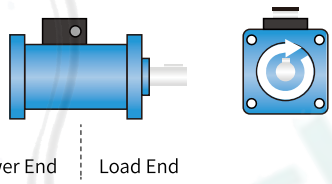


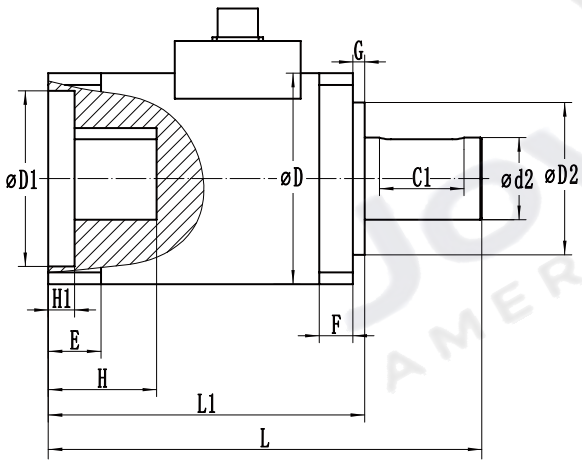


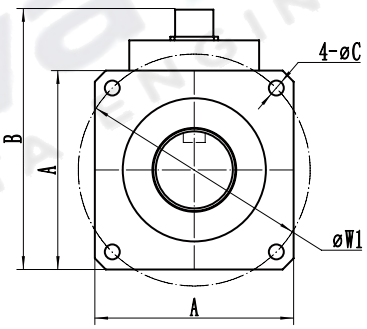
Installation Diagram

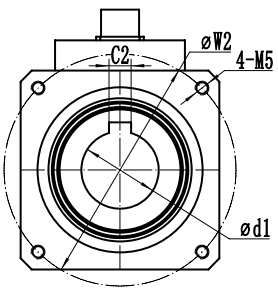


Force Diagram Of Sensor









Product Reviews

Characteristic

Strong anti-interference, high accuracy and good stability, small size, light weight, easy to install, can transfer static / rotation / static / dynamic torque signal.

Application Area

- It is mostly used in the torque test system of static load torque and dynamic load torque of servo motor.

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DYN-201D Dynamic torque sensor

Parameters Table			
Range	0-500N.m	Material quality	Stainless Steel
Speed Range	0-3000rpm	Annual Stability	0.3%/Year
Torque Signal	<2.0mV/V	Impedance	700Ω
Power Supply Voltage	DC 5-15V	Insulation resistance	≥5000MΩ/100VDC
Need Point Output	±0.5%F.S.	Service voltage	5-15V
Nolinear	0.1%F.S.	Operating temperature range	-10-60℃
Hysteresis	0.5%F.S.	Relative Humidity	0-90%RH
Repeatability	0.05%F.S.	Safe overload	150%
Creep (30 Min)	0.05%F.S.	Extreme overload	200%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ф5x3m
Zero Point Temperature Drift	0.05%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	Selectable

Range (N.m)	A	B	C	C1	C2	D	D1	d1	d2	D2
0.1-100	62	73	5.5	5*25	5*28	60	50	14	14	42
	62	73	5.5	6*22	5*28	60	50	16	18	42
200-500	72	94. 5	5.5	8*28	8*28	72	60	28	28	52

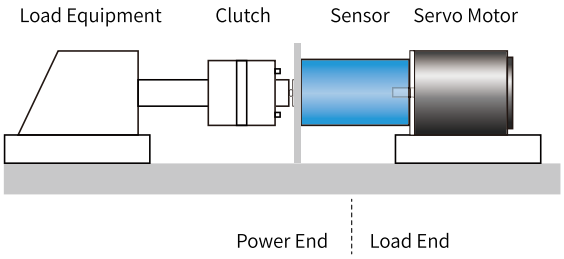
Range (N.m)	E	F	G	H	H1	K	L	L1	M	W1	W2
0.1-100	62	73	5.5	5*25	5*28	60	50	14	14	42	70
	62	73	5.5	6*22	5*28	60	50	16	18	42	70
200-500	72	94. 5	5.5	8*28	8*28	72	60	28	28	52	84

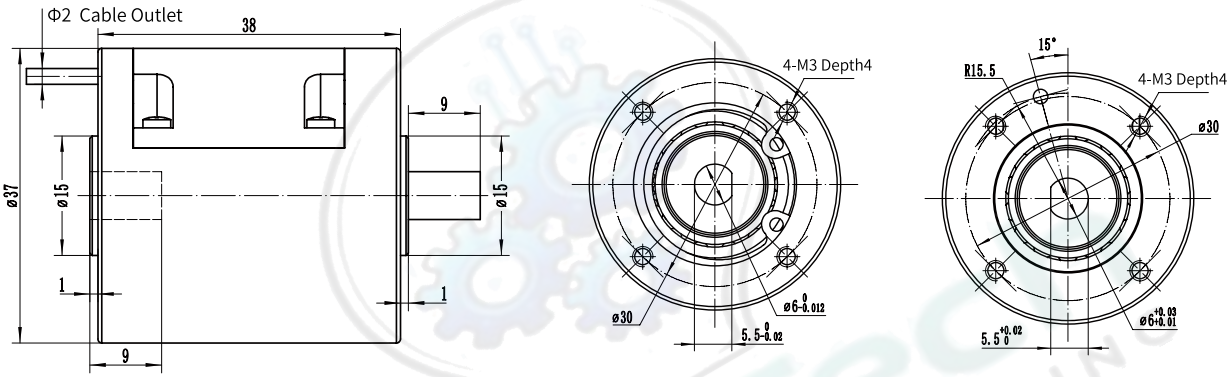
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DYN-202 Dynamic torque sensor



Installation Diagram





Product Reviews

Characteristic

The small rotary torque sensor is used for the rotational torque measurement in both the clockwise and counterclockwise directions. Provide a frontal range of 0.1 to 5 NM, the sensor is mounted between the motor and the load through the coupling, the housing remains stationary during the measurement, and the shaft rotates with the motor shaft.
Custom services can be used for other measurement ranges with similar structures. The compact construction makes the sensor particularly suitable for torque measurement applications with limited installation space.

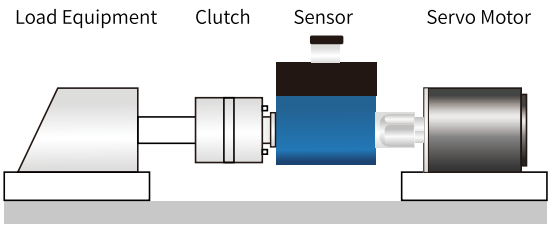
Parameters Table			
Range	0.1-5N.m	Material quality	Stainless Steel (Shaft Body)
Speed Range	≤3000Rpm	Annual Stability	0.3%/Year
Torque Signal	≤2.0mV/V	Impedance	＞350Ω
Power Supply Voltage	24V DC 0.2A	Insulation resistance	2KMΩ
Need Point Output	±0.2%F.S.	Service voltage	5-15V
Nolinear	0.2%F.S.	Operating temperature range	-20-80℃
Hysteresis	0.2%F.S.	Relative Humidity	0-85%RH
Repeatability	0.2%F.S.	Safe overload	150%
Creep (30 Min)	0.03%F.S. (30 min)	Extreme overload	200%
Temperature sensitivity drift	0.1%F.S./10℃	Cable line specifications	Φ2*2m
Zero Point Temperature Drift	0.1%F.S./10℃	Cable limit tension	98N
Response frequency	0.3% / Year	TEDS	Selectable

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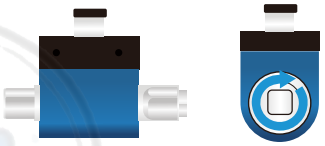
DYN-203 Dynamic torque sensor

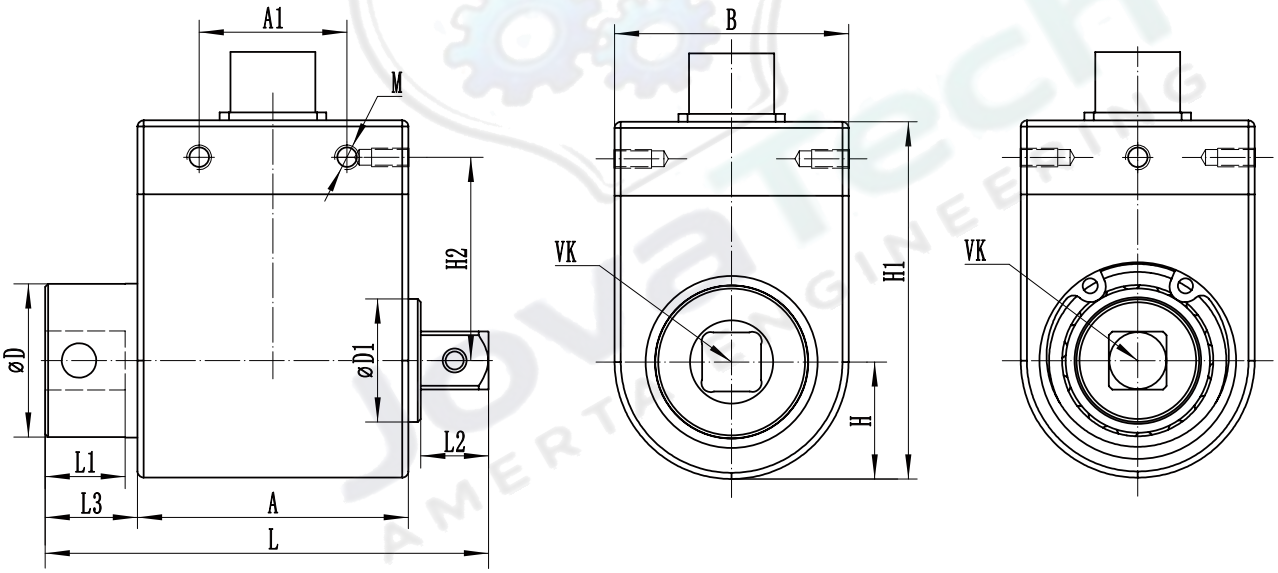


Installation Diagram



Force Diagram Of Sensor





Product Reviews

Characteristic

Strong anti-interference, high accuracy and stability, easy to install, can transfer static / rotation / static / dynamic torque signal.

Application Area

- It is used for the output torque and power detection of rotating power equipment such as motor, engine and internal combustion engine.
- For the torque and power detection of fan, water pump, gear box and torque plate hand.

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DYN-203 Dynamic torque sensor

Parameters Table			
Range	0-3000N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	Load Resistance	>2kΩ
Repeatability	0.05%F.S.	Service voltage	DC 5-15V
Creep (30 Min)	0.05%F.S.	Consumption Of Current	<150mA
Temperature sensitivity drift	0.05%F.S./10℃	Work Environment	-10-50℃ 0-85%RH
Zero Point Temperature Drift	0.05%F.S./10℃	Safe overload	200%
Response Time	1.0ms(50% reaction)	Cable line specifications	ф5x3m
Response frequency	1kHz	Cable limit tension	10kg
Picking Rate	2.60x10rad(0.149°)		

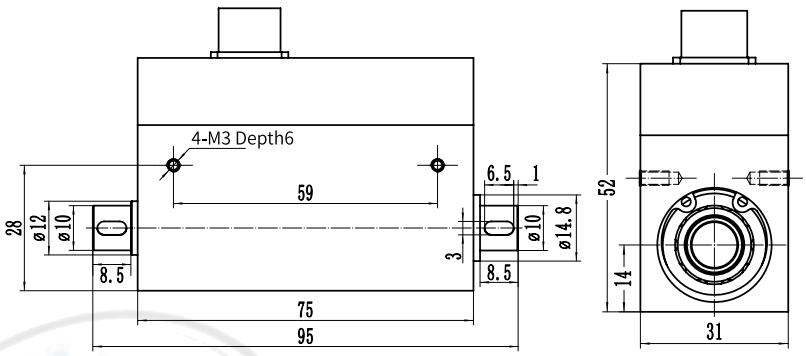
Range (N.m)	VK	A	B	L	L1	L2	L3	H
0.1-5	1/4	49	32	68	10.5	7.5	10.5	16
10-50	3/8	44	38	72	13	11	15	19
100	1/2	44	38	80	17	15	19	19
200-300	3/4	62	64	113	26	23	26	32
500-1000	1/1	72	80	131	31	28	29	40
3000	3/2	80	115	170	42	40	48	57.5

Range (N.m)	H1	H2	A1	ΦD	ΦD1	M
0.1-5	16	1/4	49	32	68	5-M4 Depth 8
10-50	19	3/8	44	38	72	5-M4 Depth 8
100	19	1/2	44	38	80	5-M4 Depth 8
200-300	32	3/4	62	64	113	5-M4 Depth 8
500-1000	40	1/1	72	80	131	5-M5 Depth 10
3000	57.5	3/2	80	115	170	5-M5 Depth 10

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DYN-204 Dynamic torque sensor





Product Reviews

Characteristic

The small rotary torque sensor is used for the rotational torque measurement in the clockwise and counterclockwise directions. Provide a frontal range of 0.1 to 5 NM, the sensor is mounted between the motor and the load through the coupling, the housing remains stationary during the measurement, and the shaft rotates with the motor shaft. Custom services can be used for other measurement ranges with similar structures.

Application Area

- The compact construction makes the sensor particularly suitable for torque measurement applications with limited installation space.

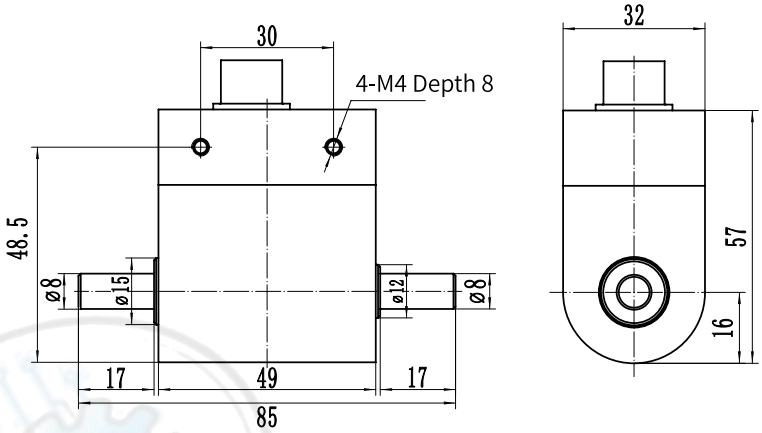
Parameters Table			
Range	0-5N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	Load Resistance	>2kΩ
Repeatability	0.05%F.S.	Service voltage	DC 5-15V
Creep (30 Min)	0.05%F.S.	Consumption Of Current	<150mA
Temperature sensitivity drift	0.05%F.S./10℃	Work Environment	-10-50℃ 0-85%RH
Zero Point Temperature Drift	0.05%F.S./10℃	Safe overload	200%
Response Time	1.0ms(50% reaction)	Cable line specifications	ф5x3m
Response frequency	1kHz	Cable limit tension	10kg
Picking Rate	2.60x10rad(0.149°)		

Range (N.m)							
0.1	0.2	0.3	0.5	1	2	3	5

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DYN-205 Dynamic torque sensor





Product Reviews

Characteristic

The small rotary torque sensor is used for the rotational torque measurement in the clockwise and counterclockwise directions. Provide a frontal range of 0.1 to 5 NM, the sensor is mounted between the motor and the load through the coupling, the housing remains stationary during the measurement, and the shaft rotates with the motor shaft. Custom services can be used for other measurement ranges with similar structures.

Application Area

- The compact construction makes the sensor particularly suitable for torque measurement applications with limited installation space.

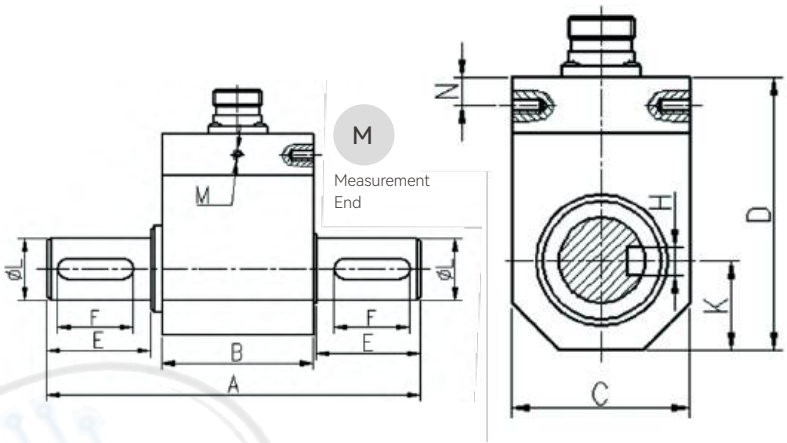
Parameters Table			
Range	0-5N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	Load Resistance	>2kΩ
Repeatability	0.05%F.S.	Service voltage	DC 5-15V
Creep (30 Min)	0.05%F.S.	Consumption Of Current	<150mA
Temperature sensitivity drift	0.05%F.S./10℃	Work Environment	-10-50℃ 0-85%RH
Zero Point Temperature Drift	0.05%F.S./10℃	Safe overload	200%
Response Time	1.0ms(50% reaction)	Cable line specifications	ф5x3m
Response frequency	1kHz	Cable limit tension	10kg
Picking Rate	2.60x10rad(0.149°)		

Range (N.m)							
0.1	0.2	0.3	0.5	1	2	3	5

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DYN-206 Dynamic torque sensor





Product Reviews

Characteristic

The small rotary torque sensor is used for the rotational torque measurement in the clockwise and counterclockwise directions. Provide a frontal range of 0.1 to 5 NM, the sensor is mounted between the motor and the load through the coupling, the housing remains stationary during the measurement, and the shaft rotates with the motor shaft. Custom services can be used for other measurement ranges with similar structures.

Application Area

- The compact construction makes the sensor particularly suitable for torque measurement applications with limited installation space.

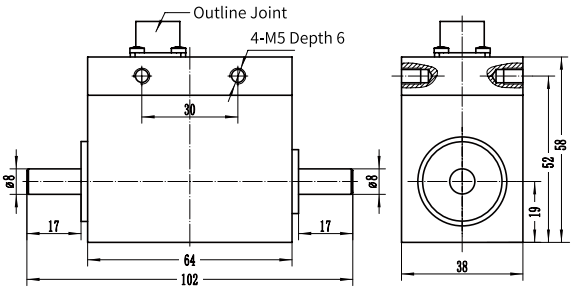
Parameters Table			
Range	0-800N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	Load Resistance	>2kΩ
Repeatability	0.05%F.S.	Service voltage	DC 5-15V
Creep (30 Min)	0.05%F.S.	Consumption Of Current	<150mA
Temperature sensitivity drift	0.05%F.S./10℃	Work Environment	-10-50℃ 0-85%RH
Zero Point Temperature Drift	0.05%F.S./10℃	Safe overload	200%
Response Time	1.0ms(50% reaction)	Cable line specifications	ϕ5x3m
Response frequency	1kHz	Cable limit tension	10kg
Picking Rate	2.60x10rad(0.149°)		

Range (N.m)	A	ΦL	B	C	D	E	F	K	N	M	H
5/10/20/30/50/100	108	18	44	38	58	30	22	19	6	3-M3	6
200/300	143	28	56	53	73.5	40	30	27	6	2-M3	8
500/600/800	188	38	70	78	96	56	40	39	7	5-M8	10

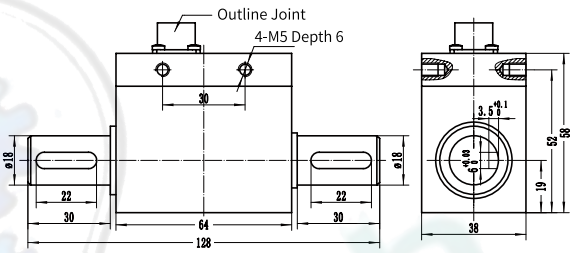
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DYN-207 Dynamic torque sensor





Range (N.m)								
0.05	0.1	0.2	0.3	0.5	1	2	3	5



Range (N.m)					
10	20	30	50	100	200

Product Reviews

Characteristic

The small rotary torque sensor is used for the rotational torque measurement in the clockwise and counterclockwise directions. Provide a frontal range of 0.1 to 5 NM, the sensor is mounted between the motor and the load through the coupling, the housing remains stationary during the measurement, and the shaft rotates with the motor shaft. Custom services can be used for other measurement ranges with similar structures.

Application Area

- The compact construction makes the sensor particularly suitable for torque measurement applications with limited installation space.

Parameters Table

Range	0-200N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	Load Resistance	>2kΩ
Repeatability	0.05%F.S.	Service voltage	DC 5-15V
Creep (30 Min)	0.05%F.S.	Consumption Of Current	<150mA
Temperature sensitivity drift	0.05%F.S./10℃	Work Environment	-10-50℃ 0-85%RH
Zero Point Temperature Drift	0.05%F.S./10℃	Safe overload	200%
Response Time	1.0ms(50% reaction)	Cable line specifications	ф5x3m
Response frequency	1kHz	Cable limit tension	10kg
Picking Rate	2.60x10rad(0.149°)		

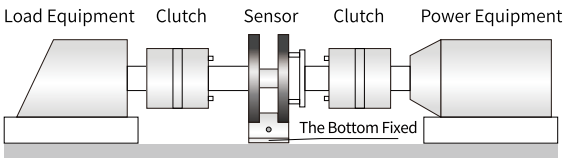
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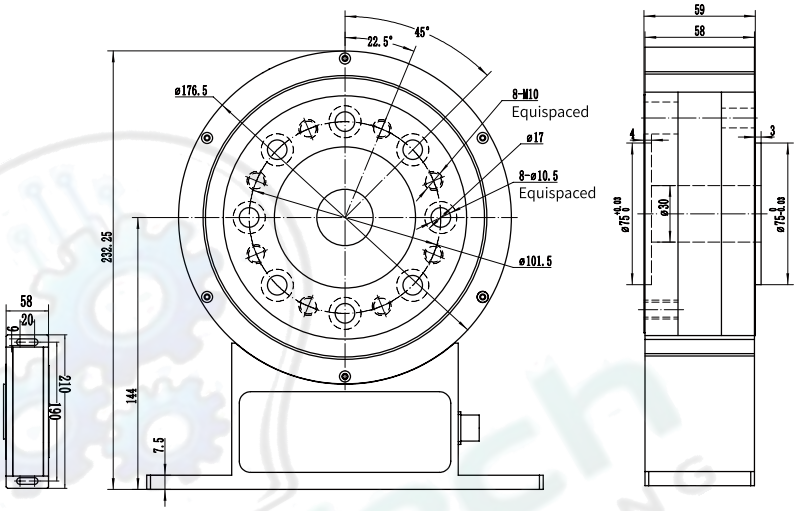
DYN-208 Dynamic torque sensor





Installation Diagram





Product Reviews

Characteristic

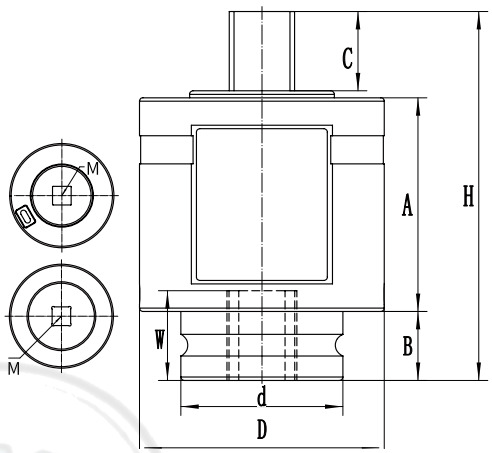
Strong interference, high accuracy and good stability, output signal digital function, small size, light weight, easy to install, energy and signal contact transmission function, transfer signal and the rotation, speed and steering, do not need to repeatedly zero can continuously transfer positive and negative torque signal, no collector ring and other wear parts, can be run at high speed for a long time, no bearing between shell and rotating disk, can adapt to a long time high speed operation, can transfer static / rotation / static / dynamic torque signal.

Parameters Table			
Range	1000N.m	material quality	alloy steel
Speed Range	rpm	Annual Stability	0.3% / year
Speed Signal	Pulse/Revolution,mA,V	impedance	750Ω
Power Supply Voltage	24V	insulation resistance	≥5000MΩ/100VDC
Zero point output	0.2%F.S.	service voltage	5-15V
Nolinear	0.2%F.S.	operating temperature range	-20-80℃
Hysteresis	0.2%F.S.	relative humidity	0-90%RH
Repeatability	0.2%F.S.	Safe overload	120%
Creep (30 Min)	0.03%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.01%F.S./10℃	Cable line specifications	ф5x3m
Zero Point Temperature Drift	0.01%F.S./10℃	Cable limit tension	10kg
Response frequency	10kHz	TEDS	selectable

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DYJN-109 Strain torque sensor





Product Reviews

Characteristic

1. Both static torque and rotational torque can be measured.
2. Torque accuracy can reach ± 0.5%FS.
3. Torque range and sleeve specifications can be customized to demand.
4. The sleeve is equipped with a display screen to show the tightening torque in real time.
5. With a real-time torque and peak torque selection switching display.
6. With the wireless torque data real-time transmission function, the wireless data transmission distance is <10 meters.
7. The matching computer test software can display real-time torque, and automatically save the number of bolt bolts, torque curve and other information as excel format files for traceability and query.
8. The working time is about 10 hours after charging.
9. It can be applied in the hydraulic torque wrench, electric torque wrench, and pneumatic torque wrench to realize the torque data communication transmission and automatic control.

Parameters Table

Range	0-30000N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥2000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-10-50℃
Repeatability	0.2%F.S.	Safe overload	150%
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	0.1%F.S./10℃	Cable limit tension	10kg
Response frequency	1kHz	TEDS	

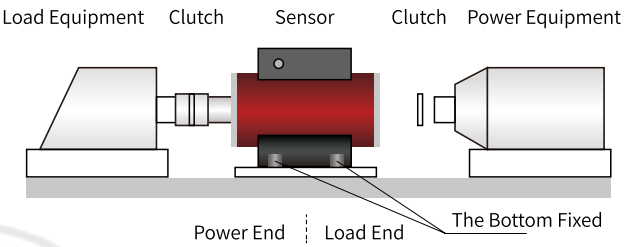
Range (N.m)	M	A	B	C	W	H	d	D
300-500	1/2(12.7*12.7)	62	20	23	26	107	47	71
600-1200	3/4(19.1*19.1)	62	20	23	26	107	47	71
1500	1/1(25.4*25.4)	62	30	28	31	122	52	76
5000	3/2(38.1*38.1)	62	40	39	40	143	75	99
10000-30000	5/2(63.5*63.5)	62	66	55	56	187	128	154

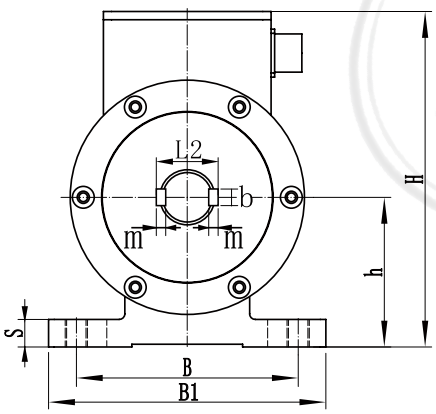
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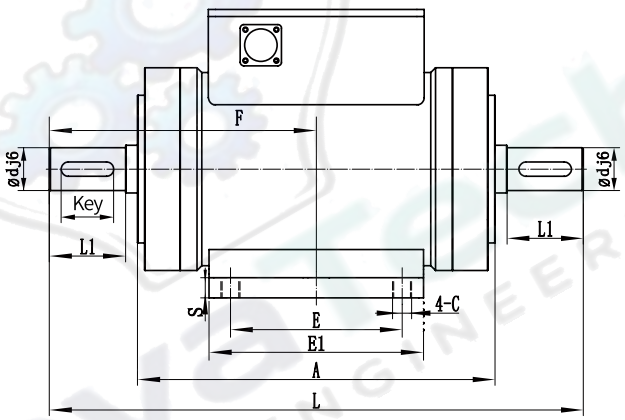
DYN-210 Dynamic torque sensor

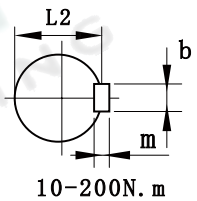


Installation Diagram









Product Reviews

Characteristic

Strong interference, high accuracy and good stability, output signal digital function, small size, light weight, easy to install, energy and signal contact transmission function, transfer signal and the rotation, speed and steering, do not need to repeatedly zero can continuously transfer positive and negative torque signal, no collector ring and other wear parts, can be run at high speed for a long time, no bearing between shell and rotating disk, can adapt to a long time high speed operation, can transfer static / rotation / static / dynamic torque signal.

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DYN-210 Dynamic torque sensor

Parameters Table			
range	±300000N.m	Inertia Moment	0.38kgcm
Speed range	≤18000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed signal	60 Pulse/revolution	Torsional Constant	3.85x10Nm/rad
Torque signal	5-15KHz	Material quality	stainless steel
Zero point output	±0.2%F.S.	Annual Stability	0.3% / year
nolinear	0.1%F.S.	Load Resistance	>2kΩ
lag	0.05%F.S.	Service voltage	DC 24V / ±15V
repetitiveness	0.05%F.S.	Consumption Of Current	<0.2 A
Creep (30 min)	0.03%F.S.	Work Environment	-10-50℃ 0-85%RH
Temperature sensitivity drift	0.1%F.S./10℃	Safe overload	200%
Zero point temperature drift	0.1%F.S./10℃	Cable line specifications	ф5x3m
response time	0.6ms(50% reaction)	Cable limit tension	10kg
response frequency	1kHz		
Maximum torsion angle	2.60x10rad(0.149°)		

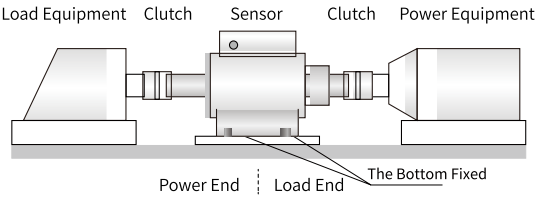
Range (N.M)	Φdj6	ΦD	A	L	L1	H	h	E	E1	B	B1	C	F	S	Standard speed	Type C key
10/20/30/40 /50/100	Φ18	Φ85	150	224	32	123	58	72	95	62	90	6.5	112	10	6000	6*22*6*1
200/300	Φ28	Φ95	152	242	42	133	63	72	95	62	90	6.5	121	10	5000	8*30*7*1
500/700	Φ38	Φ105	154	272	56	144	69	72	95	62	90	6.5	136	10	4000	10*45*8*2
1000	Φ48	Φ115	156	328	82	150	70	72	95	82	110	8.5	164	12	3000	14*70*9*2
2000	Φ55	Φ125	165	385	105	158	74	72	95	82	110	8.5	192.5	12	3000	16*95*10*2
3000	Φ65	Φ132	165	385	105	172	80	72	95	82	110	8.5	192.5	12	2500	18*90*11*2
5000/7000	Φ75	Φ146	180	396	105	187	89	72	95	82	120	8.5	198	12	2000	20*90*12*2
10000/20000	Φ100	Φ182	180	447	130	244	122	80	110	112	140	10.5	223.5	15	2000	28*110*16*2
30000	Φ125	Φ230	216	496	135	295	150	100	150	140	180	12.5	248	15	2000	32*130*18*2
50000	Φ165	Φ250	185	700	240	331	180	120	190	150	190	12.5	350	15	1900	40*210*22*2
100000	Φ210	Φ330	200	820	300	410	210	160	200	250	290	12.5	410	15	1700	50*270*28*2
150000	Φ235	Φ350	250	900	315	420	220	220	260	250	290	17	450	15	1200	56*280*32*2
200000	Φ255	Φ360	210	900	320	446	240	220	260	250	290	17	450	15	1100	56*280*32*2
300000	Φ295	Φ416	224	900	325	480	250	220	270	268	300	17	450	20	1000	70*280*36*2

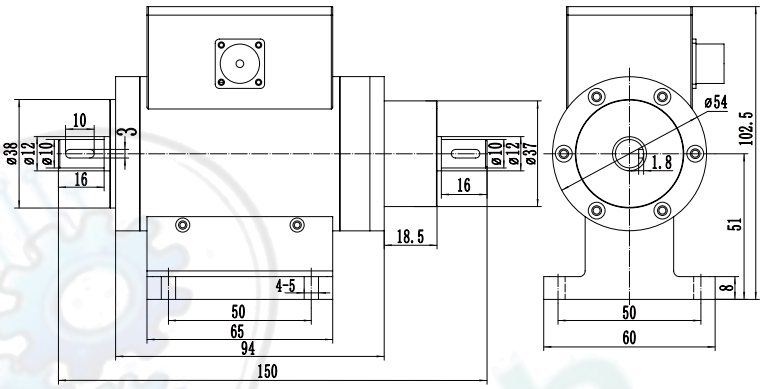
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DYN-210 Mini Dynamic torque sensor



Installation Diagram





Product Reviews

Characteristic

Strong interference, high accuracy and good stability, output signal digital function, small size, light weight, easy to install, energy and signal contact transmission function, transfer signal and the rotation, speed and steering, do not need to repeatedly zero can continuously transfer positive and negative torque signal, no collector ring and other wear parts, can be run at high speed for a long time, no bearing between shell and rotating disk, can adapt to a long time high speed operation, can transfer static / rotation / static / dynamic torque signal.

Parameters Table			
range	0.1-10N.m	Maximum torsion angle	2.60x10rad(0.149°)
Speed range	≤10000rpm	Inertia Moment	0.38kgcm
Speed signal	60 Pulse/revolution	Natural Frequency Of Rotor Vibration	19.4kHz
Torque signal	5-15KHz	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.2%F.S.	Material quality	stainless steel
nolinear	0.3%F.S.	Annual Stability	0.3% / year
lag	0.5%F.S.	Load Resistance	>2kΩ
repetitiveness	0.05%F.S.	Service voltage	DC 24V / ±15V
Creep (30 min)	0.03%F.S.	Consumption Of Current	<0.2 A
Temperature sensitivity drift	0.1%F.S./10℃	Work Environment	-10-50℃ 0-85%RH
Zero point temperature drift	0.1%F.S./10℃	Safe overload	150%
response time	0.6ms(50% reaction)	Cable line specifications	ϕ5x3m
response frequency	1kHz	Cable limit tension	10kg

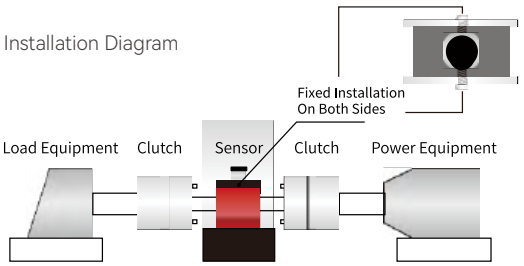
Range (N.m)							
0.1	0.2	0.5	1	2	3	5	10

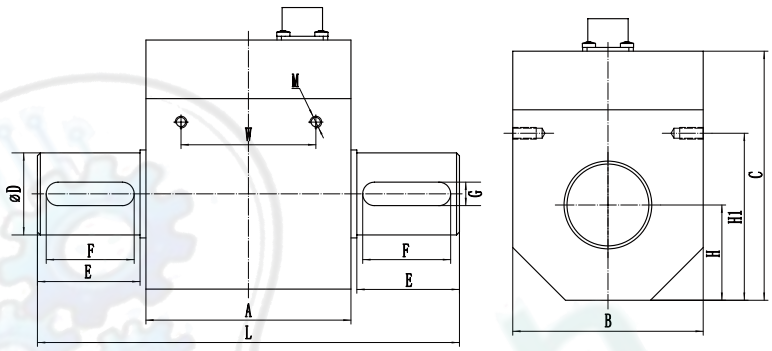
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DYN-212 Dynamic torque sensor



Installation Diagram





Product Reviews

Characteristic

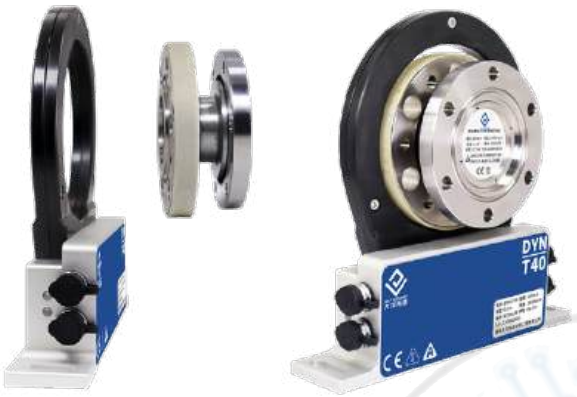
Strong interference, high accuracy and good stability, output signal digital function, small size, light weight, easy to install, energy and signal contact transmission function, transfer signal and the rotation, speed and steering, do not need to repeatedly zero can continuously transfer positive and negative torque signal, no collector ring and other wear parts, can be run at high speed for a long time, no bearing between shell and rotating disk, can adapt to a long time high speed operation, can transfer static / rotation / static / dynamic torque signal.

Parameters Table			
Range	±300N.m	Material quality	Stainless Steel (Shaft Body)
Speed Range	≤8000rpm	Annual Stability	0.3% / Year
Torque Signal	5-15KHz	Impedance	> 350Ω
Zero point output	±0.2%F.S.	Insulation resistance	2kmΩ
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-10-50℃
Repeatability	0.05%F.S.	Relative Humidity	0-85%RH
Creep (30 Min)	0.03%F.S.	Safe overload	150%
Temperature sensitivity drift	0.1%F.S./10℃	Extreme overload	200%
Zero Point Temperature Drift	0.1%F.S./10℃	Cable line specifications	Φ5 * 3m
Response Time	0.6ms(50% reaction)	Cable limit tension	98N
Response frequency	1kHz	TEDS	Selectable

Range (N.m)	ΦD	L	A	B	C	E	F	G	H	H1	W	M
0.1-100	18	135	70	55	73	31	22	6	27.5	48	40	4-M4 Depth 8
200-300	28	144	70	65	85	35	30	8	32.5	57	46	4-M4 Depth 8

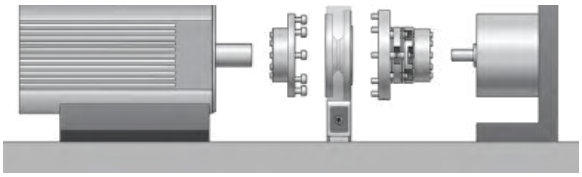
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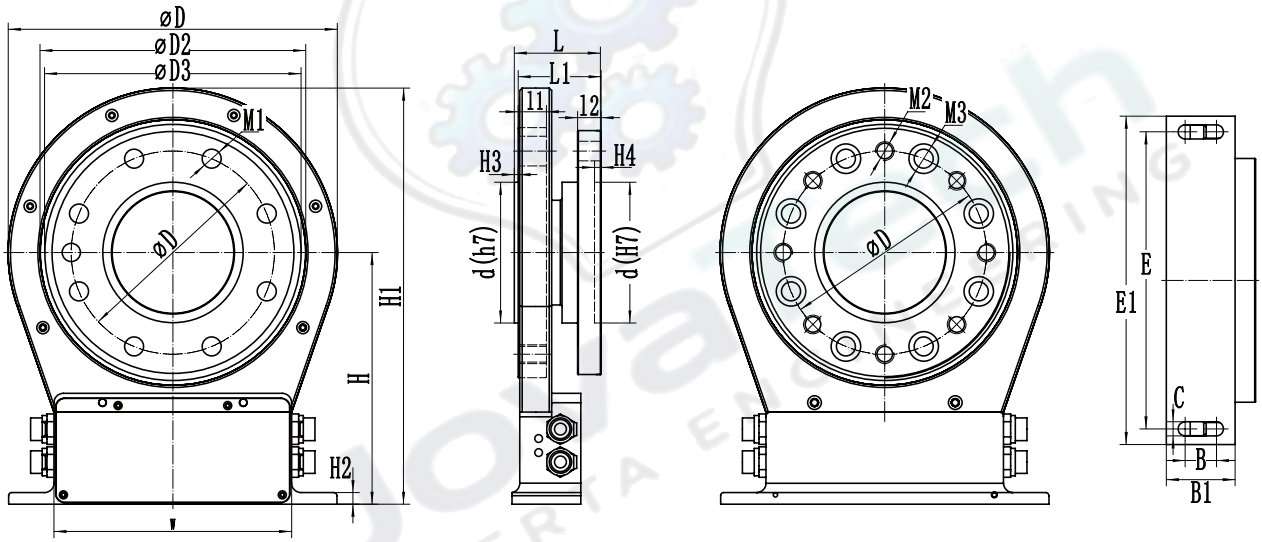
DYN-T40 Dynamic torque sensor



Installation Diagram

Use The Flange + Coupling





Product Reviews

Characteristic

The DYN-T40 torque sensor is a torque sensor that dynamically measures torque and speed. Can collect torque speed and speed signal with high speed and high precision, support various output modes. It has a smaller axial size in dynamic torque and a measuring shaft that can be removed, suitable for a variety of installation environments. The greatly simplified installation steps, also make the sensor has a certain anti-non-coaxial characteristics. The sensor torque sampling and signal output rate of more than 3000Hz, which can be suitable for high-speed torque collection occasions. Its torque signal can output + -10V voltage signal and 4-20MA current signal, rotation speed Signals were 0 – 10V and 4 – 20MA. Also supports the output torque and speed signal through the RS485. The rotational speed signal can also support the differential ABZ signal output. Other output types will be continuously updated later.

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DYN-T40 Dynamic torque sensor

Parameters Table			
Range	0-10000N.m	Material quality	Stainless Steel (Shaft Body)
Speed Range	≤8000rpm	Annual Stability	0.3% / Year
Torque Signal	5-15KHz	Impedance	> 350Ω
Zero point output	±0.2%F.S.	Insulation resistance	2kmΩ
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-10-50℃
Repeatability	0.05%F.S.	Relative Humidity	0-85%RH
Creep (30 Min)	0.03%F.S.	Safe overload	150%
Temperature sensitivity drift	0.1%F.S./10℃	Extreme overload	200%
Zero Point Temperature Drift	0.1%F.S./10℃	Cable line specifications	Φ5 * 3m
Response Time	0.6ms(50% reaction)	Cable limit tension	98N
Response frequency	1kHz	TEDS	Selectable

Range (N.m)	ΦD	ΦD1	ΦD2	ΦD3	H	H1	H2	H3	H4	d	L
50/100/200	Φ84	Φ154.4	Φ114	Φ104	133	210.2	7.5	2	4.2	Φ57	47
500/1000	Φ101.5	Φ176.4	Φ136	Φ130	144	232.2	7.5	3	4.2	Φ75	51
2000/3000	Φ130	Φ210.4	Φ170	Φ164	161	266.2	7.5	2.5	4.2	Φ90	55
5000	Φ155.5	Φ239.4	Φ199	Φ193	175.5	295.2	7.5	2.8	4.2	Φ110	65.8
10000	Φ196	Φ286.4	Φ246	Φ240	199	342.2	7.5	3.5	4.2	Φ140	79

Range (N.m)	L1	L2	L3	M1	M2	M3	E	E1	B	B1	C	W
5-50	45	14	10.5	6-Φ8.2	6-Φ14	6-M8	190	210	20	44	9	152
100-500	49	17	12	8-Φ10.5	8-Φ17	8-M10	190	210	20	44	9	152
800	53	18	15	8-Φ12.5	8-Φ19	8-M12	190	210	20	44	9	152
1000-2000	63	20	22	8-Φ14.5	8-Φ22	8-M14	190	210	20	44	9	152
4000-10,000	75.5	22	24	8-Φ17	8-Φ26	8-M16	190	210	20	44	9	152

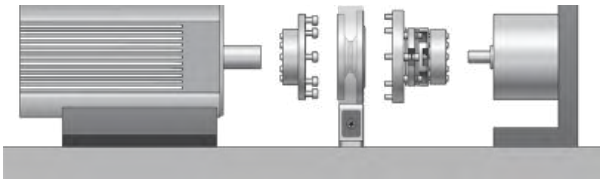
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DYN-502 Dynamic torque sensor



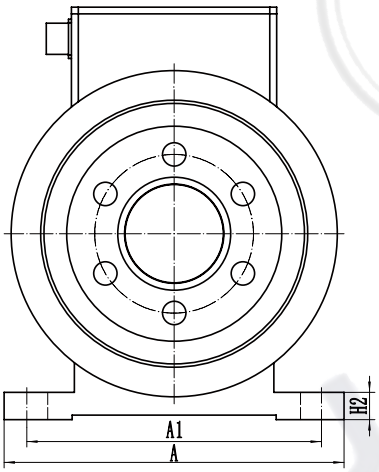
Installation Diagram

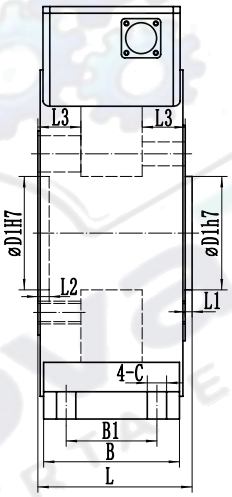
Use The Flange + Coupling



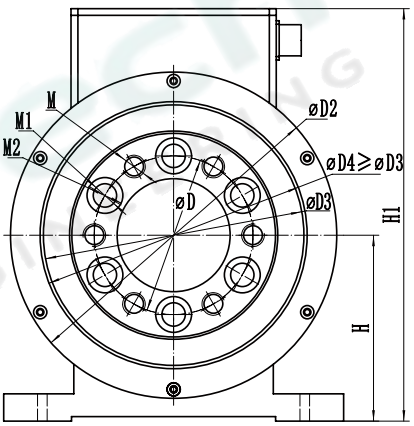


Front





The Back



Product Reviews

Characteristic

Strong interference, high accuracy and good stability, output signal digital function, small size, light weight, easy to install, energy and signal contact transmission function, transfer signal and the rotation, speed and steering, do not need to repeatedly zero can continuously transfer positive and negative torque signal, no collector ring and other wear parts, can be run at high speed for a long time, no bearing between shell and rotating disk, can adapt to a long time high speed operation, can transfer static / rotation / static / dynamic torque signal.

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DYN-502 Dynamic torque sensor

Parameters Table			
Range	0-250000N.m	Response frequency	1kHz
Speed Range	<15000rpm	Material quality	Alloy Steel
Torque Signal	5-15k Hz	Annual Stability	0.3%/Year
Power Supply Voltage	DC 24V / ±15V	Impedance	350/700±10Ω
Zero point output	0.2%F.S.	Insulation resistance	⩾ 5000MΩ/100VDC
Nolinear	0.2%F.S.	Operating temperature range	-20-80℃
Hysteresis	0.05%F.S.	Relative Humidity	0-90%RH
Repeatability	0.05%F.S.	Safe overload	120%
Creep (30 Min)	0.05%F.S.	Extreme overload	150%
Temperature sensitivity drift	0.05%F.S./10℃	Cable line specifications	ϕ5x3m
Zero Point Temperature Drift	0.05%F.S./10℃	Cable limit tension	10kg

Range (N.m)	ΦD	ΦD1	ΦD2	L1	L2	ΦD3	A	Al	B	B1
5-50	Φ60	Φ50	Φ124	3	5	Φ95	140	120	60	40
100-500	Φ70	Φ50	Φ144	3	5	Φ115	150	130	60	40
800	Φ80	Φ50	Φ154	3	5	Φ125	150	130	60	40
1000-2000	Φ105	Φ75	Φ189	3	5	Φ153	160	140	60	37.5
4000-10,000	Φ130	Φ80	Φ215	5	6	Φ177	220	190	90	60
30,000-40,000	Φ200	Φ150	Φ292	5	6	Φ250	300	250	95	60
50,000-10,000	Φ362	Φ220	Φ475	5	5	Φ430	280	226	125	100
110,000-250,000	Φ570	Φ500	Φ740	5	5	Φ640	460	400	140	104

Range (N.m)	4-C	L	H	H1	H2	M	M1	M2	L3
5-50	4-8.5	68	72	162	12	6-M6	6-M6	/	15
100-500	4-8.5	68	82	182	12	6-M10	6-Φ10.5	6-Φ16	19
800	4-8.5	68	96	201	12	6-M10	6-Φ10.5	6-Φ16	19
1000-2000	4-8.5	83	108	230.5	15	8-M12	8-Φ13	8-Φ20	25
4000-10,000	4-11	115	130	265.5	15	10-M18	10-M18	/	30
30,000-40,000	4-15	115	170	344	20	12-M24	12-M24	/	35
50,000-10,000	4-13	138	365	630.5	25	16-M36	16-M36	/	45
110,000-250,000	4-14	150	495	893	28	16-M36	16-M36	/	50

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13

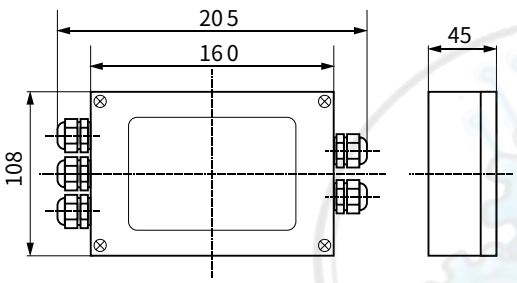
JUNCTION BOX AND TRANSMITTER



Multi-channel junction box, aluminum alloy shell, good anti-interference, cover plate waterproof rubber washer, waterproof and dust-proof.

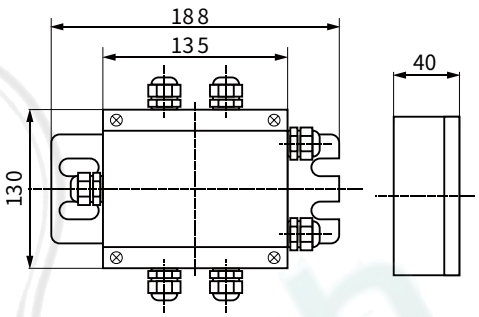
DYJXH-S4 Junction box



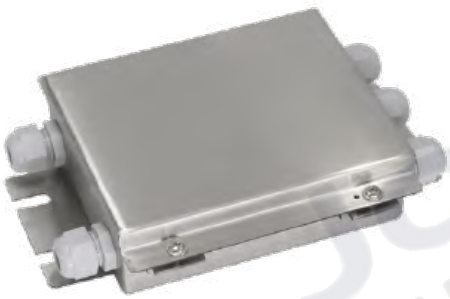


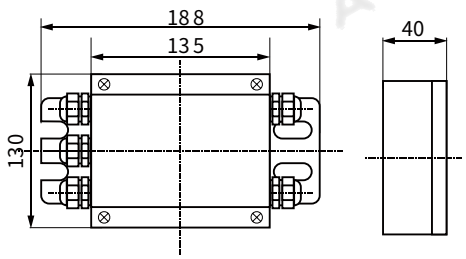
Cast aluminum 4-in-1 junction box





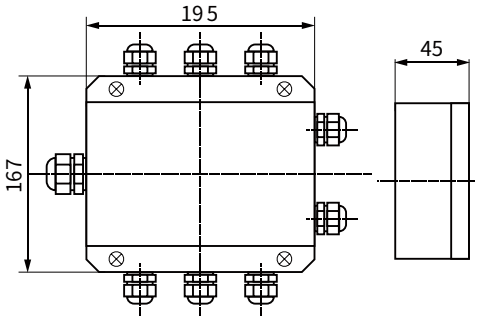
Stainless steel 6-in-1 junction box





Stainless steel 4-in-1 junction box





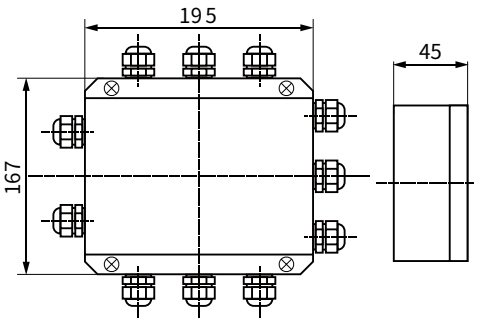
Stainless steel 8-in-1 junction box

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DYJXH-S4 Junction box



Stainless steel 10-in-1 junction box







Installation Diagram

Product Reviews

Characteristic

Multi-channel junction box, aluminum alloy shell, good anti-interference, cover plate waterproof rubber washer, waterproof and dust-proof.
Assembly, debugging is simple and convenient, high reliability.
At the same time, the sensitivity matches the adjustment mode, and each output can be balanced to prevent the damage of the surge signal to the sensor.

Application Area

- Used in batching tank, reactor, silo, mixing station.
- Multiple sensors detect resultant forces.
- It can be widely used in oil field, chemical industry, automobile, lifting machinery, construction, building materials, mechanical processing, thermal power, transportation and other fields.







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DYTX-101 Weighing transmitter



Single channel



Four-channel

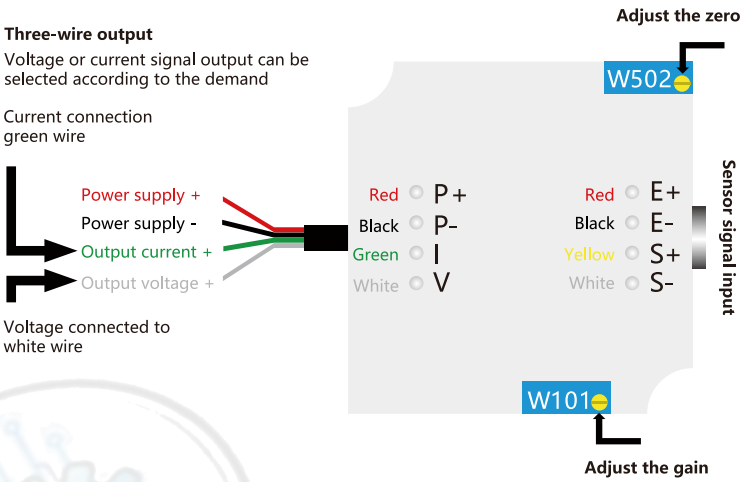


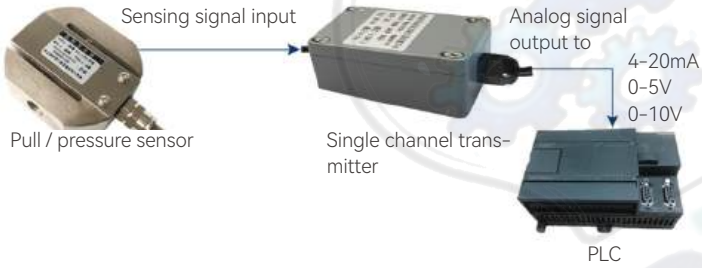
Parameters Table			
Power supply	DC 9~28VDC	Nonlinear error	≤0.003%F.S.
Power waste	< 1W	Internal resolution	1/16777215
Working current	Depending on the number of external sensors and power supply voltage	Stable display resolution	1/ 10000
Use environment	Temperature: -40~85 ℃ Humidity: 10%~95% (no condensation)	Sampling rate	12 times/50 times configurable
Protection level	IP65	Sampling method	Sigma Delta
Installation method	Installation hole fixation	Communication mode	Rs485
Weight	≈0.25kg	Communication protocol	MODBUS RTU
Applicable sensor types	Suitable for all resistance strain gauges and weighing sensors	Communication parameter	9600,8,N,1
Sensor excitation voltage	5V DC+3%, maximum current 100mA	Electrical isolation	1000VDC
Input signal range	+11 mV	Support baud rate	2400 / 4800 / 9600 / 19200 / 38400
temperature coefficient	≤ (0.001% of reading+0.3d)/° C		

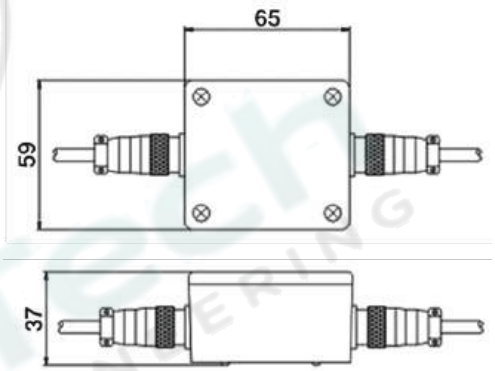
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BSQ-001 Weighing transmitter









Product Reviews

Characteristic

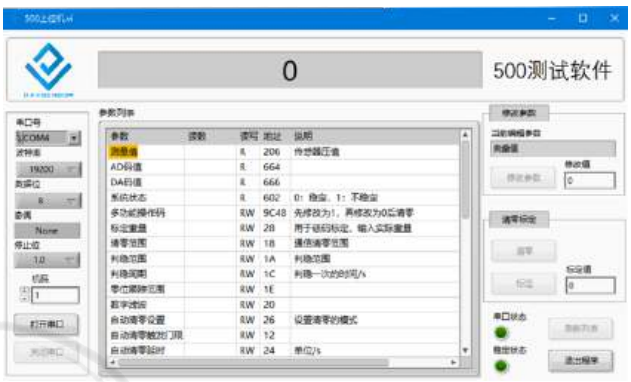
The external transmitter, with an alumi-num alloy housing, precisely amplifies the microvoltage signal (MV) of the load cell. Line internal neat, constant current bridge, voltage and current conversion, impedance adaptation, linear compensation, temperature compensation, etc. The mechanical quantity is converted into standard current and voltage signal output, 4~20mA, 0~10mA, -5v~0~5V, 1~5V, -10~0-10V directly interface with automatic control equipment or computer networking, the transmitter has zero adjust-ment, gain adjustment function.

Parameters Table			
Rated input	0-20mV	Supply voltage	DC 15-30V
Rated output	0±5V/0±10V 0-20mA/4-20mA/4-12-20mA	Class of protection	Aviation Plug IP65 Waterproof connector IP67(optional)
Nonlinearity	0.2% F.S	Opening size	Shell (mm) : length 65 width 58 height 37

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DY500 Weighing transmitter

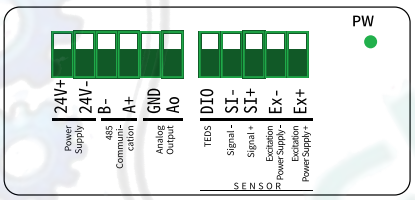


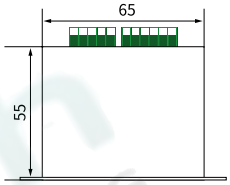






Four in, four out

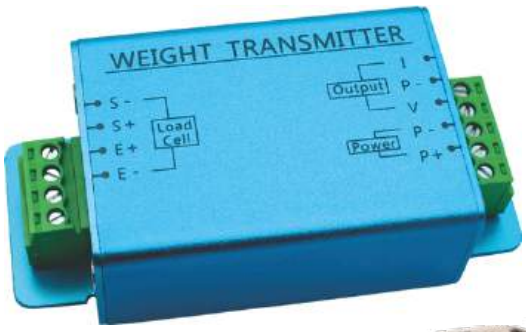




Parameters Table	
1	Transmitter supply voltage is 12-26V DC, power consumption <3W.
2	Data acquisition accuracy 12-16 bits (depending on sampling speed).
3	Communication sampling RS485-ModbusRTU protocol, communication rate 1200-115200 BPS (default 19200/8 data bit/no check /1 stop bit); The real-time measurement value can be read through the upper computer, and the operations such as zero clearing, calibration and parameter modification can be realized.
4	The transmission output is 0-10V or 4-20mA.
5	Both communication and transmission can be accurately output at the same time.
6	One key clear and automatic clear function.
7	The overall accuracy error is 0.1%.
8	External intelligent sensor, power supply voltage 5V, with power-on automatic calibration function, with the company with TEDS function sensor can achieve automatic calibration.

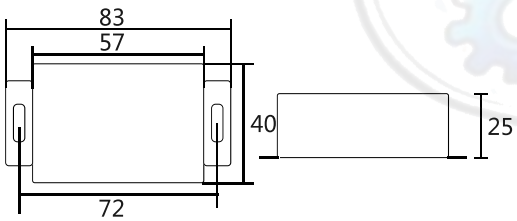
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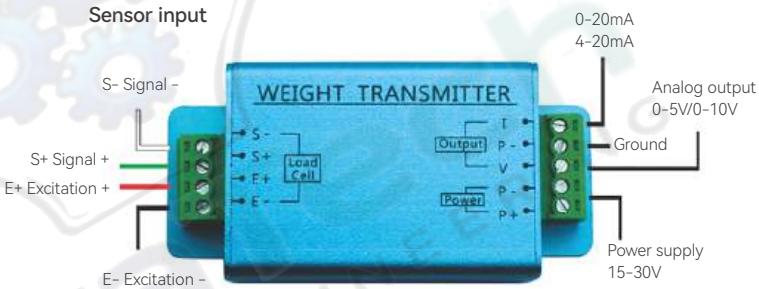
DY510 Weighing transmitter











Product Reviews

Characteristic

510 transmitter adopts aluminum shell, adopts original imported high-performance devices inside the sensor output signal for precision amplification, internal voltage regulation, constant current bridge, voltage and current conversion, impedance adaptation, linear compensation, humidity compensation, etc.

Convert mechanics and quantity into standard current and voltage signal output, which can switch 0±5V/0±10V/4-20mA/0-20mA.

It can be directly connected with automatic control equipment PLC single-chip computer terminal or computer networking.

With standard signal external zero, external gain function, input over protection, output short circuit protection and other features.

Parameters Table			
Argument	Technical parameter	Comprehensive accuracy	0.05%
Supply voltage	15-30VDC	Operating temperature	-30℃-80℃
Sampling frequency	≥100KHz	Output signal	0±5V,0±10V,0-20mA,4-20mA
Input signal	0.5-4mV/V		

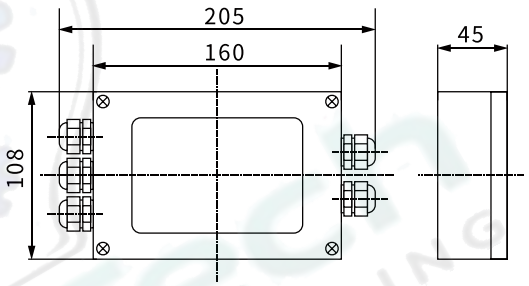
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Four-channel weighing transmitter

weighing transmitter







Product Reviews

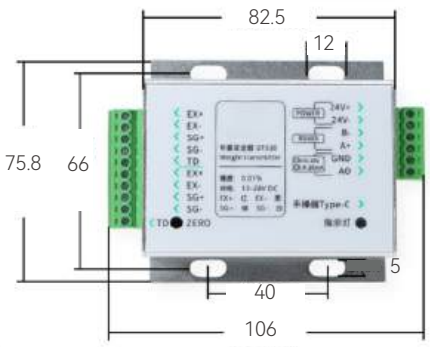
Characteristic

The sensor output signal is accurately amplified by imported high-performance devices, and the internal voltage regulation, constant current supply bridge, voltage and current conversion, impedance adaptation, linear compensation, humidity compensation, etc. Convert mechanics and quantity into standard current and voltage signal output, which can switch 0±5V/0±10V/4-20mA/0-20mA. It can be directly connected with automatic control equipment PLC single-chip computer terminal or computer networking. With standard signal external zero, external gain function, input over protection, output short circuit protection and other features.

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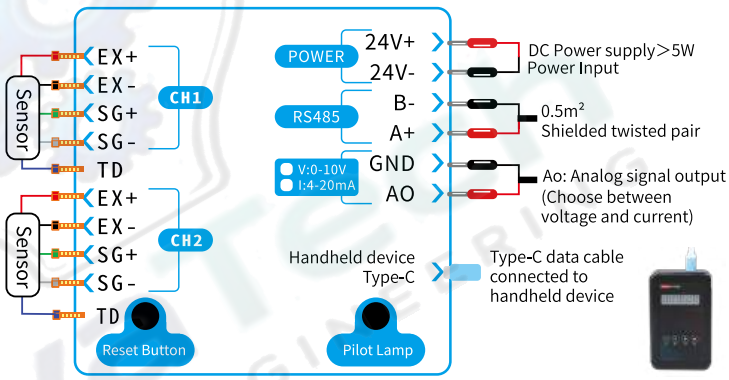
D530 Weighing transmitter





Unit:mm





Provide free upper computer software

Display, export, and save data for data analysis.
Data can be exported to Excel tables / viewed in software.

Product Reviews

Characteristic

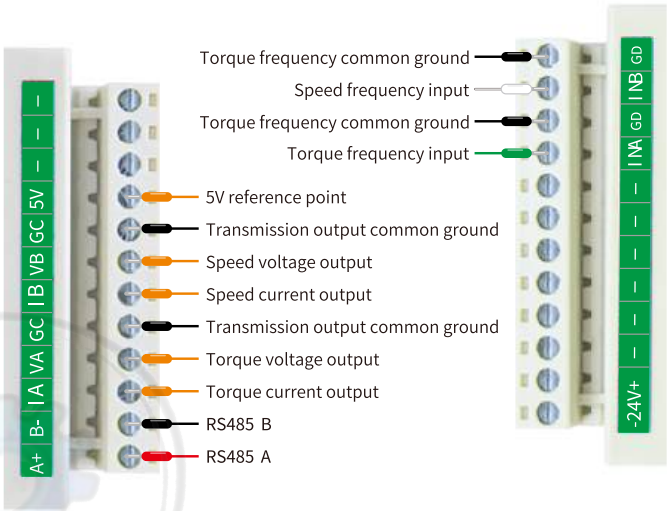
Multiple communication options are available, including analog voltage, current, RS485, and a one click reset button. Communication protocols include Modbus RTU interactive communication and ASCII upload protocol. Analog voltage output can range from 0-10V, and current output can range from 4-20mA, making it easier to express force values.

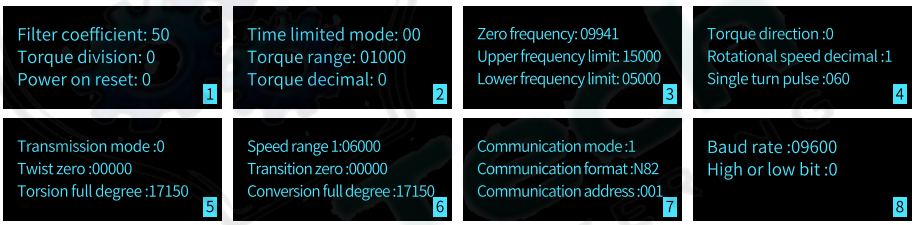
Parameters Table			
Sampling rate	Up to 320Hz, four gears adjustable	Warm float	< 20ppm
Nonlinear	Better than 0.03%	Usage environment	-20℃ to 50℃
Display division	- 99999 ~ 999999	Communication	RS485
Analog signal input range	-15 ~15mV	Analog voltage output	0-10V, 4-20mA

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DYFV12 Torque transmitter







Product Reviews

Characteristic

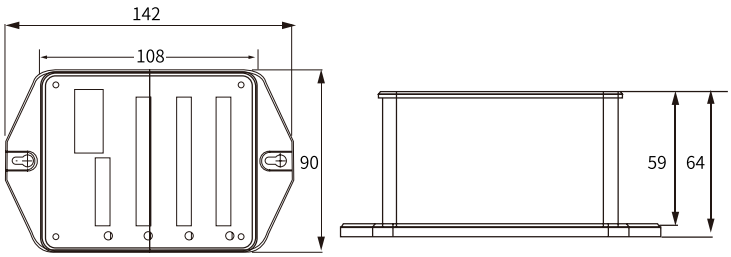
The instrument uses ARM kernel processor as the main control.
Connected with the dynamic torque sensor whose signal output is the frequency, the current torque value can be quickly read. The default torque frequency acquisition speed is up to 100 times per second. The OLED screen comes with the current torque and speed value, and the current input frequency can be displayed.
Torque and speed can be converted into current or voltage at the same time.
Supports RS485 output.
RS485 can be directly connected with the host computer of the company to obtain curve data, and can also be integrated into the RS485 network using MODBUS RTU.
Real-time reading of torque and speed values.
Current and voltage output: 4-20MA, 4-12-20MA, 0-10V, 0-5-10V, ±5V.

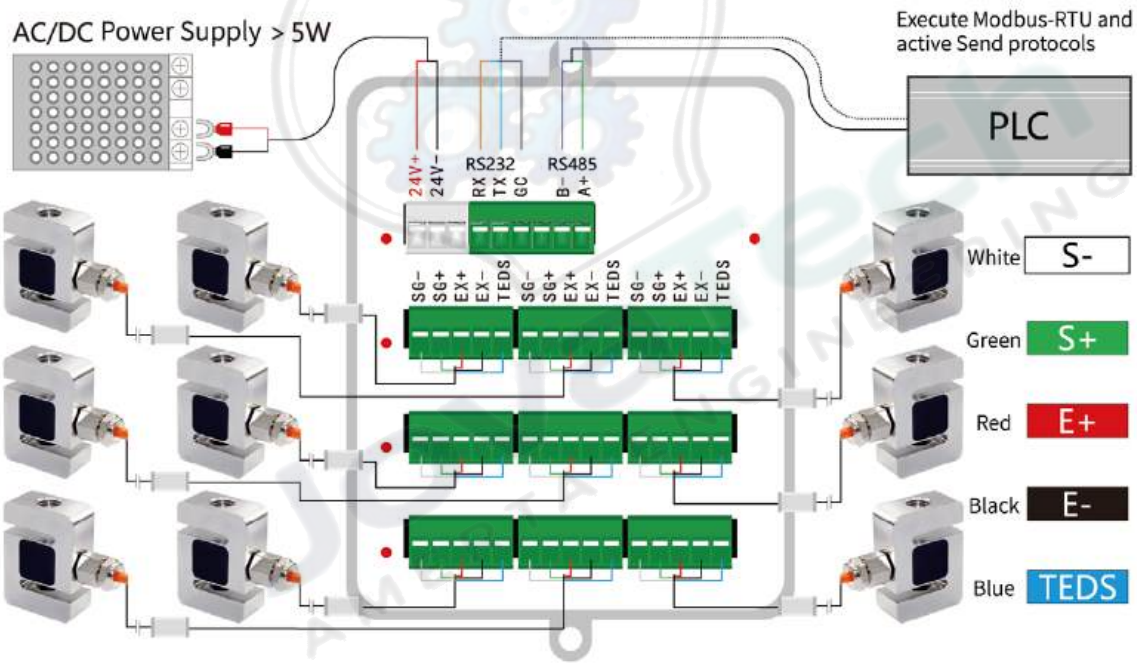
Parameters Table			
Display	OLED display (128*64)	Work environment	Temperature: -20-55 ℃ Humidity: 20-90% RH
Supply voltage	12-30v, 24V power supply, current<120MA	Measurement accuracy	± 0.05% F S
Power consumption	≤ 2.5W	Acquisition speed	100 times per second
Torque display range	-99999~99999	Degree of protection	IP65 (front panel protection)
Speed display range	0~99999	Torque input signal	3000~18000hz
Speed input signal	1-20000Hz		

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X503 Weighing transmitter







Product Reviews

Characteristic

1. The maximum sampling rate is 320HZ.
2. The nonlinearity of the instrument is better than 0.01%, and the accuracy is better than 0.1%.
3. Analog signal input range -15~15mV.
4. Temperature drift less than 20ppm.
5. Analog signal output is 10V.
6. Equipped with RS48 communication interface.
7. Operating environment -20℃ to 50℃.

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DR304 Weighing transmitter



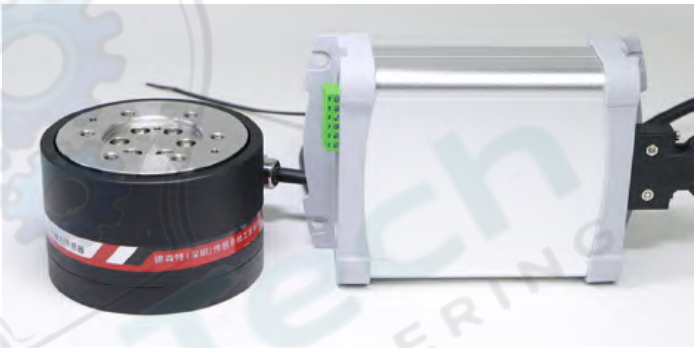
304A Ethernet output







304B Six channel analog output



Product Reviews

Characteristic

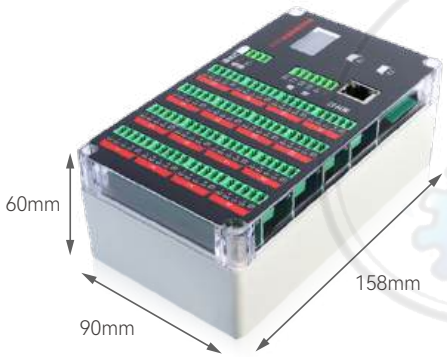
1. Six-channel acquisition, the input signal range is 30mv~30mv, the sensor power supply is 5V/200mA, the measurement division is 20 bits, the acquisition speed can be set 6.25-800 times /s.
2. RS485 communication interface: implements modbus-RTU protocol and custom active sending protocol.
3. More than 4800-115200 baud rates can be selected.
4. Ethernet port communication: Run modbus-TCP, d.asps_tcp, and d.asps_tcp.
5. D.arcs_tcp can automatically upload all real-time data, each packet length is less than 4000 bytes.
6. (Only Type A) Power supply: 24VDC, less than 50mA(without a sensor).

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X501 Weighing transmitter







1. Multiple digital output methods

Supports Ethernet port output | RS485/RS232
Support TEDS without calibration

2. Ethernet transmission characteristics

Large transmission volume
Fast speed
More than 80HZ per second for a single channel

3. The two keys switch to each other

Product Reviews

Characteristic

It can realize 16-channel force sensor data acquisition, the acquisition speed can be selected 10/20/80 times /s, the signal input range is 0-20mv, and the sensor power supply voltage is 3.3V. Supports TEDS function.

The collected data can be output over RS485 port or 232 port, and supports modbus-RTU and active upload protocol. Manufactured as ModbusRTU57600pbs. Ethernet port output, supporting Modbus-TCP and autonomous

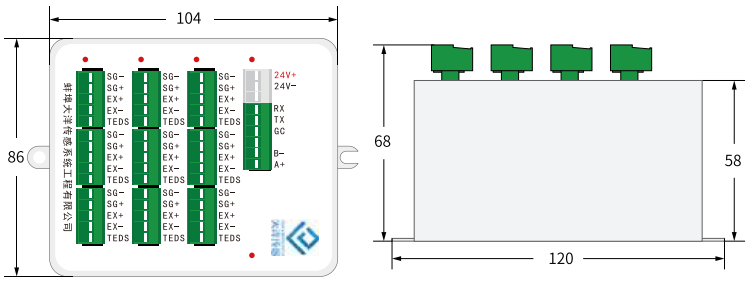
protocols. OLED display, double button operation, you can display Gerry measurement value, key reset and other operations. External power supply 20-30V DC.

Parameters Table			
Acquisition channel number	16-channel	Factory default	ModbusRTU 57600pbs
Acquisition speed	Optional 10/20/80 times/s	Ethernet port	Supports Modbus-TCP and autonomous protocols
Signal input range	0-20mv	reveal	OLED
Sensor supply voltage	3.3 V	Power source	20-30V DC
Communication protocol	RS485, 232, support modbus-RTU and active upload protocols		

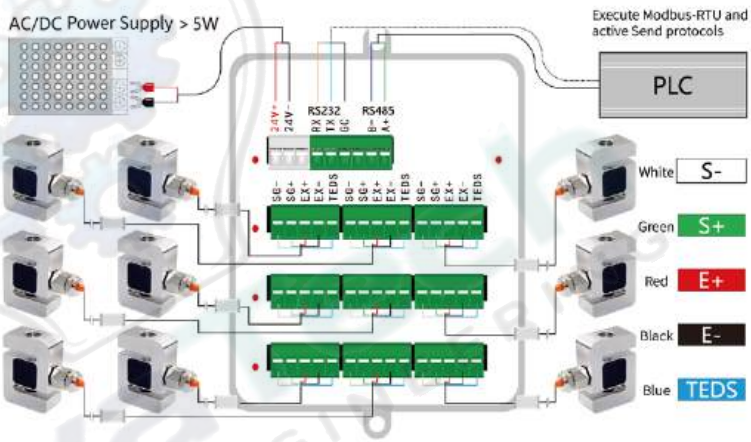
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DY094 Weighing transmitter









Product Reviews

Characteristic

1. DY094 DC voltage 24V, power less than 3W.
2. Multi-channel input, nine channels can be collected at the same time.
3. With two channels of communication RS485 and RS232
4. The collected value can be read, calibrated and cleared by means of serial port.
5. Self-calibration function, the use of the company's own TEDS sensor without calibration operation.

Parameters Table			
Power supply	24V DC	Sensor power supply	5V
power	<5W	Signal input range	±20mV
Number of channels	Route 9	Communication	RS485, RS232
Acquisition speed	10,20,80,320 times /s	Agreement	The modbus-RTU protocol and the custom active Send protocol
Internal portion degree	20-bit		

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X508A Weighing transmitter





Supply voltage 10-30DVC

RS485 communication supports Modbus-RTU communication protocol ASCII active upload

Data backup and recovery

Digital filtering/vibration filtering

Power on/automatic/manual reset/zero position tracking

Ethernet communication
Modbus TCP protocol、D.AS_TCP protocol

16 channel acquisition
The acquisition speed can be set to 10-80 times /s(per channel)

Product Reviews

Characteristic

The collector can complete internal parameter modification, zero clearing, data saving, range calibration, and digital calibration operations through RS485 communication or Ethernet communication, and can simultaneously use the RS485 serial port and Ethernet interface to read measured values.
RS485 communication supports Modbus-RTU and custom active sending protocols.
The Ethernet interface supports Modbus-TCP and D.ASs_tcp. The D.ASs_TCP protocol can upload the measured value, unit, decimal point, and system status at a specified interval. The D.ASPTC protocol also has other interactive instructions, such as read and write parameters, clear zero, calibrate, save data, etc.

Parameters Table	
Acquisition channel	16 channels, input signal range -20mv-20mv
Sampling rate	10-80 times /s(per channel)
Signal input range	0-20mv
Sensor supply voltage	24VDC, < 50mA (without sensor)
Communication Protocol	RS485 communication supports Modbus-RTU communication protocol ASCII active upload
Factory default	Modbus-RTU 57600pbs
Ethernet port	Supports Modbus TCP protocol and D.AS_TCP protocol
Display	OLED
Xero Point Temperature Drift	DC 24V

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X508B Weighing transmitter





Power on/automatic/manual reset/zero position tracking

8 channel acquisition
The acquisition speed can be set to 10-80 times /s(per channel)

Ethernet communication
Modbus TCP protocol、D.AS_TCP protocol

Supply voltage 10-30DVC

RS485 communication
Supports Modbus-RTU communication protocol ASCII active upload

Data backup and recovery

Digital filtering/vibration filtering

Product Reviews

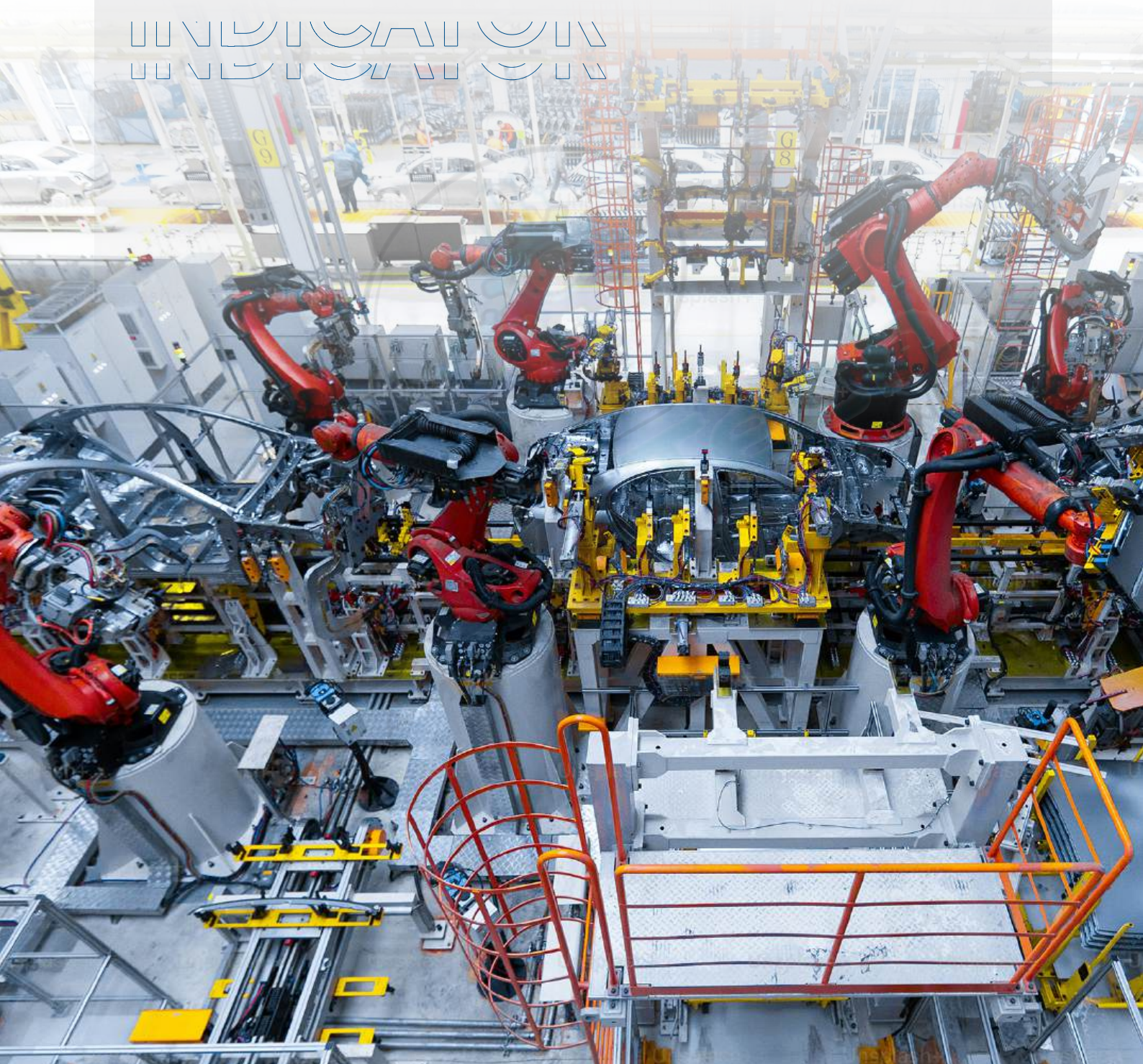
Characteristic

The collector can complete internal parameter modification, zero clearing, data saving, range calibration, and digital calibration operations through RS485 communication or Ethernet communication, and can simultaneously use the RS485 serial port and Ethernet interface to read measured values.
RS485 communication supports Modbus-RTU and custom active sending protocols.
The Ethernet interface supports Modbus-TCP and D.ASs_tcp. The D.ASs_TCP protocol can upload the measured value, unit, decimal point, and system status at a specified interval. The D.ASPTC protocol also has other interactive instructions, such as read and write parameters, clear zero, calibrate, save data, etc.

Parameters Table	
Acquisition channel	8 channels, input signal range -20mv-20mv
Sampling rate	10-80 times /s(per channel) < 5W
Accuracy	Significant digits 20, internal degree 1000000±500000, non-linear
Temperature	-20-50℃
Temperature drift	< 30ppm
Voltage	24VDC, < 50mA (without sensor) 10-30V, < 2W (8sensors)
Sensor supply voltage	5V/200mA
Measurement division	5-bit

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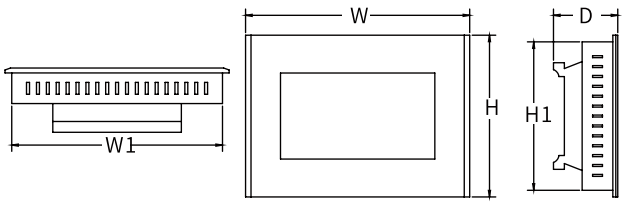
14 INDICATOR



D740 Touch Screen Indicator



D740-1 Single channel



Outline Dimension	Disk Size	Box Size	Disk Opening Size
WxHxD	WxH	W1xH1	W2xH2
203x149x54	203x149	190x136	192x138

Unit: mm

Customizable multi-channel interface



D740-2 Binary channels



D740-4 four channels



Custom 9 channels or 16 channels

Product Reviews

Characteristic

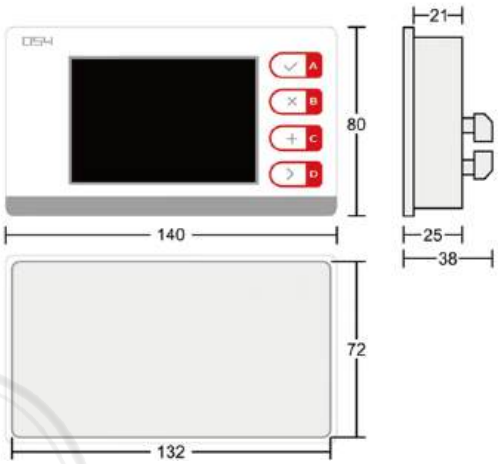
It can sample the force value of four sensors at the same time, respectively for upper and lower limit, interval alarm, overload alarm.
No weight calibration, simply input sensor parameters to complete calibration.
Multiple start stop mode options, including threshold threshold, on threshold, threshold delay, and more.
When four channels are sampled simultaneously, the sampling rate can reach 1600Hz.
Zero position tracking, creep tracking and other functions ensure system stability.
Peak valley value storage, data can be exported by connecting to a USB drive.
Rich communication interfaces, equipped with Modbus RTU protocol based on RS485 and CANopen communication protocol based on CAN.

Parameters Table			
Power supply	DC 24V	Number of channels	7 signal inputs, 16 transistor outputs (NPN)
Single channel sampling rate	Up to 12800Hz		
Use environment	-20 ℃ to 50 ℃	processor	Cortex-A8
Display division	-99999 to 999999	Dominant frequency	600MHz
Temperature drift	＜ 20ppm	Internal memory	128M
EMC protection class	Level 4	Storage space	128M

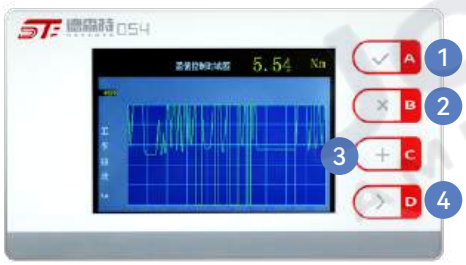
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DY054 Indicator

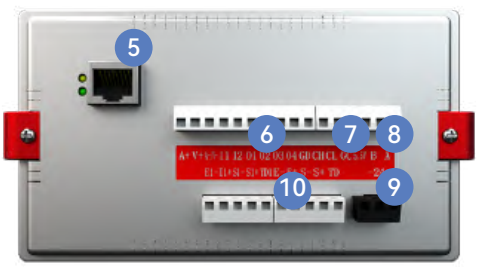




- Interface test
- CAN interface canopen protocol
- Manual clearing
- RS485 Modbus-RTU protocol
- Key detection
- Comparison of upper and lower limits
- The key locks automatically
- Multiple trigger modes Peak valley value capture
- 15 point nonlinear correction
- Supports Mobdus-TCP over Ethernet ports
- Automatic power-on clear
- High speed communication at 9000Hz/s
- Automatic zero tracking
- Displays real-time/historical/ working curves



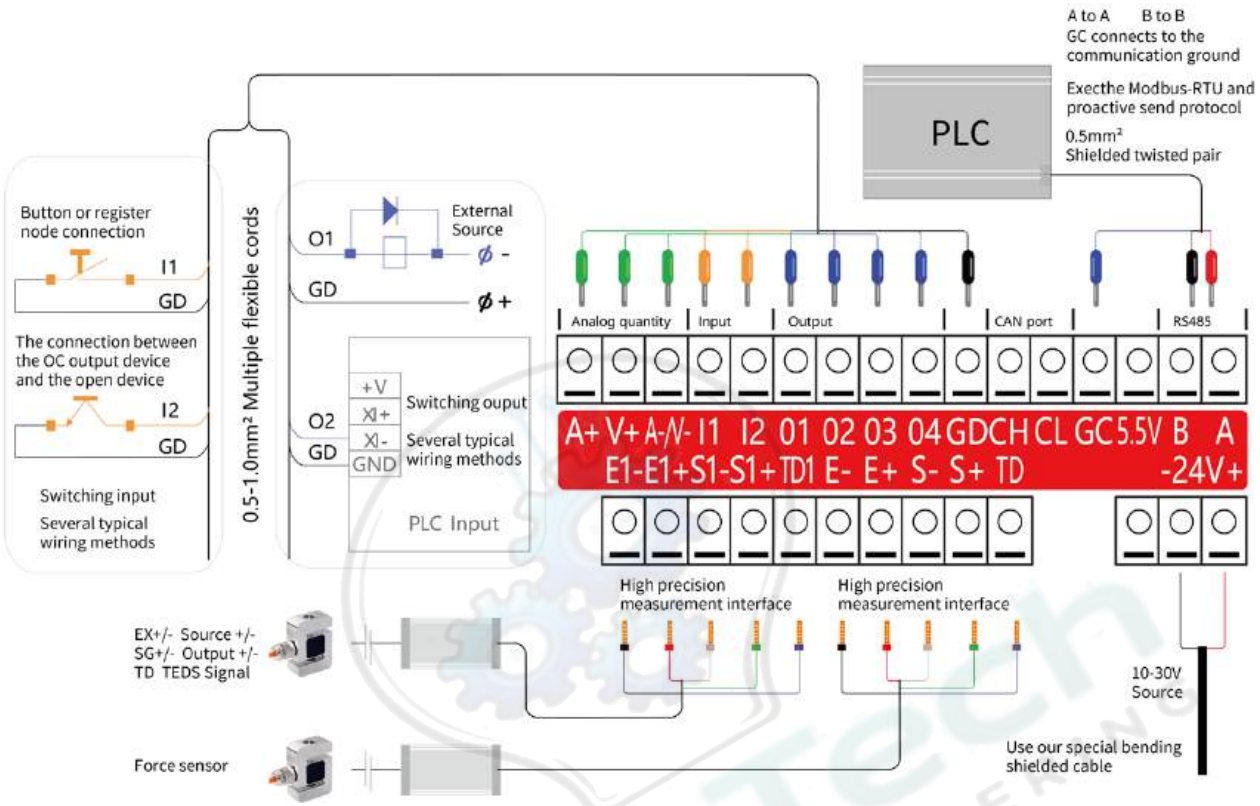
1	Infinite lifespan capacitor button with button lock and button indicator
2	The cast aluminum shell has a small volume and is easy to install
3	480x320 color LCD display
4	Wear resistant and highly transparent acrylic panel



5	Modbus TCP high-speed communication
6	Isolation type two-way input and four-way output
7	Support Canopen bus protocol
8	Modbus RTU RS485 protocol
9	Wide power input: DC9-24V
10	High speed and high-precision sensor input terminal

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DY054 Indicator

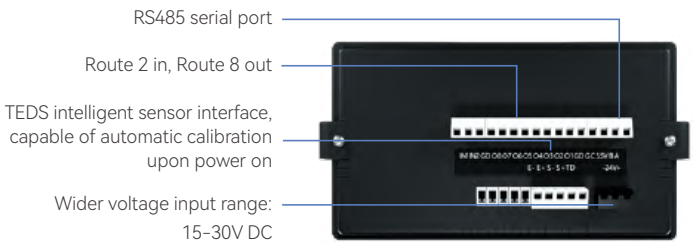


Parameters Table	
Comprehensive accuracy	better than 0.1%
Nonlinearity	better than 0.01%
High precision acquisition	Accuracy better than 0.01%
Analog input signal range	-15~15mV
High speed acquisition	Can reach 9000 times/s
Display division	9999.99
Use environment	Temperature: -20~70 ℃ Relative humidity: <90% (no condensation)
Supply voltage	12~30V DC, <5W

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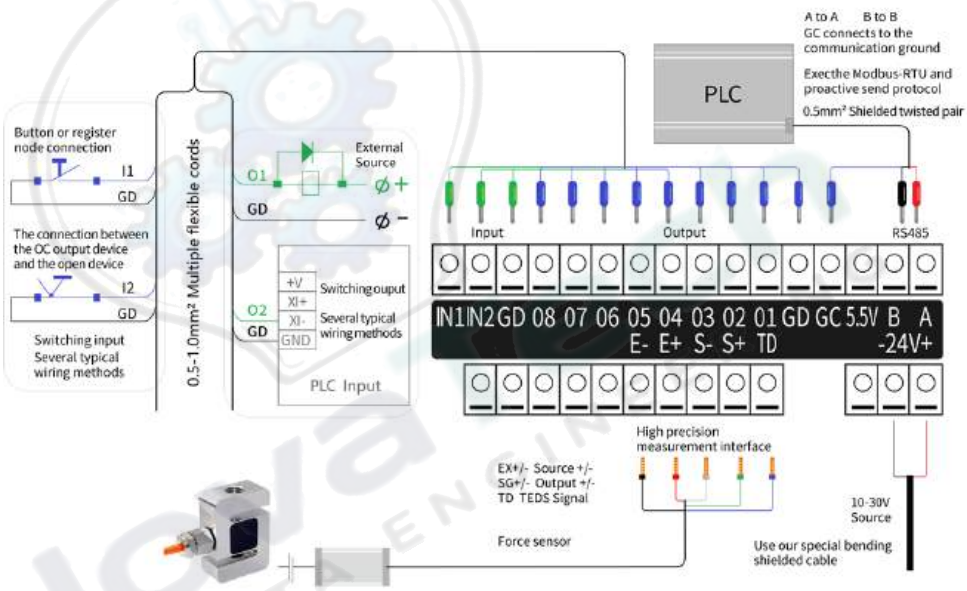
DY054W Indicator











Product Reviews

Characteristic

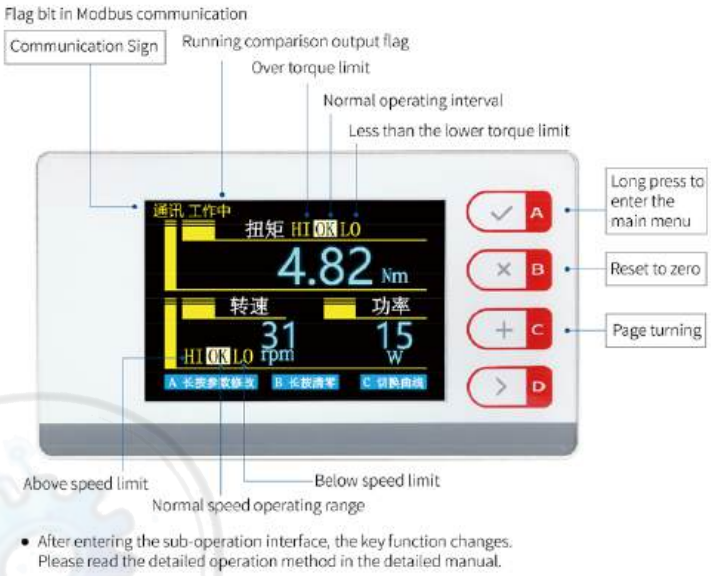
The DY054W meter is configured with one RS485 serial port. RS485 implements MOD-BUS-RTU, ASC active upload, and HEX fast active upload protocols. The MODBUS protocol supports 03 read commands and 10H write commands. Active upload Protocol Active upload protocol with the lowest latency and highest speed.

Parameters Table			
Comprehensive accuracy	better than 0.1%	High speed acquisition	Can reach 1200 times/s
Nonlinearity	better than 0.01%	Display division	9999.99
High precision acquisition	Accuracy better than 0.01%	Use environment	Temperature: -20~70 ℃ Relative humidity: <90% (no condensation)
Analog input signal range	3.0mV/V	Supply voltage	Supply voltage 10-30V DC Common (24V DC)

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DY054N Indicator



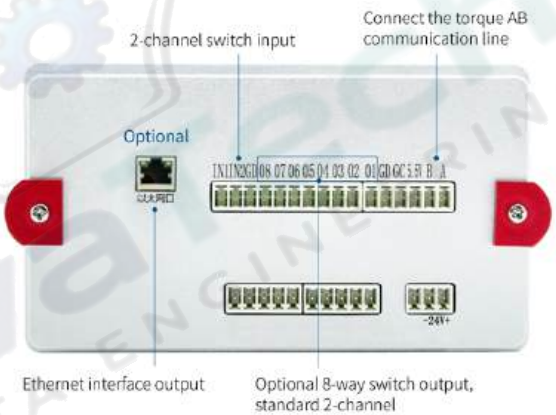


Comparison of upper and lower limits

Supports Ethernet port Modbus TCP protocol

Display real-time/historical/ working curves

RS485 Modbus RTU protocol



Product Reviews

Characteristic

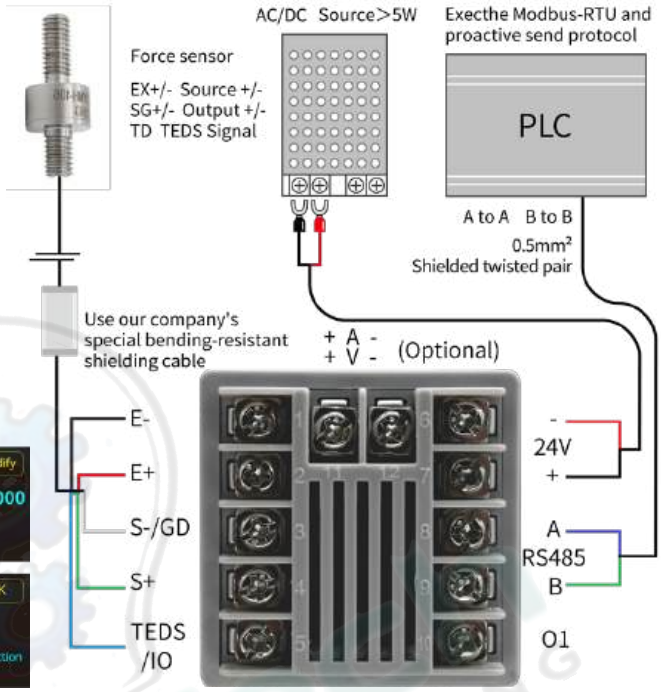
A pressure-torsion sensor is a sensor capable of measuring both pressure and torque.
It can be used to measure the force and torque during drilling, cutting, screws and tightening, or to measure the torsional characteristics of springs, bearings, clutch and other components.

Parameters Table			
Comprehensive accuracy	better than 0.1%	High speed acquisition	Can reach 1200 times/s
Nonlinearity	better than 0.01%	Display division	9999.99
High precision acquisition	Accuracy better than 0.01%	Use environment	Temperature: -20~70 ℃ Relative humidity: <90% (no condensation)
Analog input signal range	3.0mV/V	Supply voltage	Supply voltage 10-30V DC Common (24V DC)

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DY055 Indicator







Product Reviews

Characteristic

A multi-component force sensor is a sensor capable of measuring forces or moments in multiple directions simultaneously. The sensor based on the resistance strain gauge uses the characteristics of the resistance strain gauge to convert the force or torque into the electrical signal.

It has high stiffness, high natural frequency, and high load tolerance, and is suitable for dynamic measurement. Compact structure, easy installation, small space. The product price is relatively high, so our company needs to provide professional calibration and maintenance guidance. Affected by temperature, humidity, electromagnetic interference and other environmental factors, need to compensate or shield. There may be crosstalk or nonlinearity in the measured signal, which can be corrected or decoupled by our company.

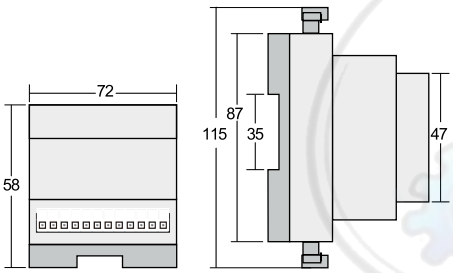
Parameters Table			
Accuracy class	C3 level	Analog input signal range	-20~20mV
Verification accuracy	0.06%	Display division	-99999 or 999999
nonlinearity	0.01%	Supply voltage	9~24V DC, < 5W
Comprehensive accuracy	0.06%	Bridge supply voltage	5V/100mA, proportional acquisition
Temperature drift	<10ppm	Use environment	-20~70℃ Relative humidity < 85% (no condensation)
Sampling rate	1200 times per second		

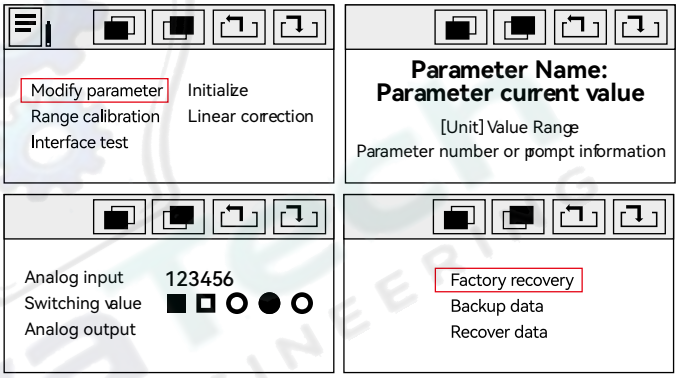
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DY056 Indicator



- Peak value capture
- Force value measurement display
- Control system
- Connecting PLC
- Collect at high speed 3200 times/s
- Operation prompt
- RS485 Modbus-RTU protocol
- Comparison of upper and lower limits
- RS232 Modbus-RTU protocol
- Interface test
- Manual clearing







Product Reviews

Characteristic

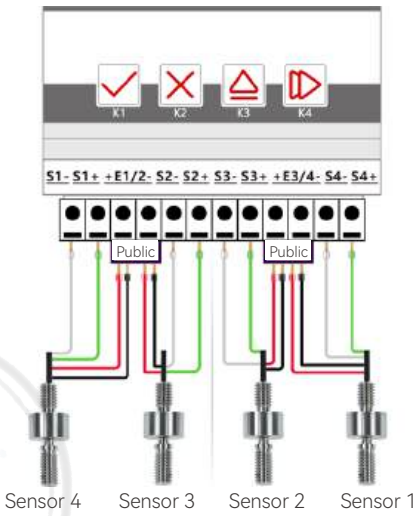
The D056 instrument is configured with two serial ports, one RS485 and one RS232 (optional), and implements MODBUS-RTU protocol, ASC active upload protocol and HEX fast active upload protocol. The MODBUS protocol supports 03 read and 16 write commands, and the maximum communication speed is 30 packets /s. The HEX active upload protocol is the active upload protocol that provides the minimum delay and the fastest speed.

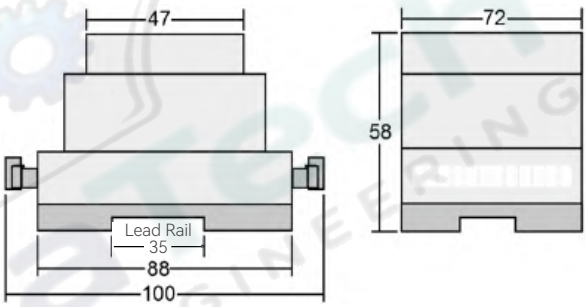
Parameters Table			
Comprehensive accuracy	better than 0.1%	Bridge supply voltage	5V/100mA,Proportional acquisition
Nonlinearity	better than 0.02%	Temperature drift	<20ppm
High speed acquisition	3200 times/s	Converter output	0~10 or -5~5V and 4-20mA
Analog input signal range	-15~15mV	Supply voltage	12~30V DC,<5W
Display division	999999 or 99.999		

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X505-4 Indicator







Product Reviews

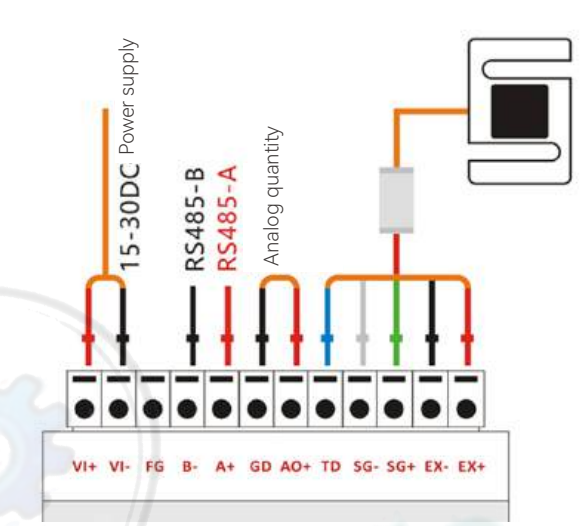
Characteristic

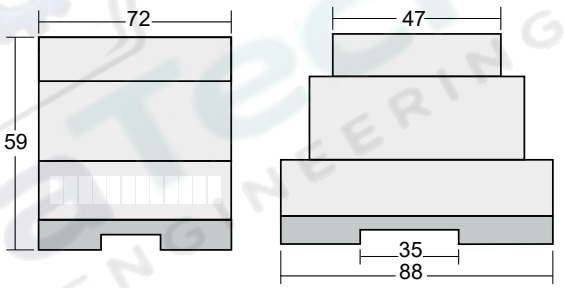
1. Real-time automatic capture of device peaks and analysis of sensor status.
2. Parameter backup and restoration.
3. No weight calibration, only need to enter the sensor parameters to complete the calibration, a variety of communication methods to choose, analog voltage, current, RS485.
4. Open all the way to clear the zero function (IN Gd short one second clear).
5. Four sets of buttons, efficient and convenient operation.
6. Communication protocol Optional Modbus-RTU interactive communication, ASCII upload protocol.
7. Analog voltage output can be 0±10V, current output 4-20mA, force value expression is easier.

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X505 Indicator





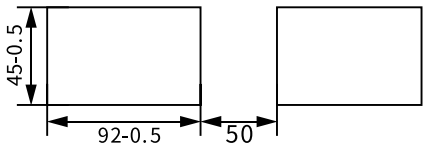


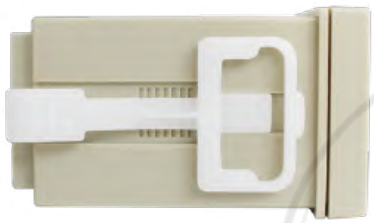
Parameters Table			
Highest sample rate	0-1000KG	Temperature drift	<20ppm
Nonlinearity	0.03%	Use environment	-20℃-50℃
Display division	-99999~999999	Analog voltage output	0±10V,4-20mA
Analog signal input range	-15 ~15mV		

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DY220 Indicator









Product Reviews

Characteristic

1. The maximum collection speed is 80 times /s.
2. With switching input and output.
3. OC output can be set and output can be transmitted.
4. Supports Modbus-RTU 485 communication.
5. Can be set: quantitative start control, simple comparison output, on start work, peak hold working mode, upper/lower alarm output, sorting mode.

Parameters Table	
Input signal	0-2.5MV/V Supply bridge voltage 5V/ 100mA
Measurement accuracy	0.05%
Sampling rate	10 times or 80 times per second can be set
Display mode	Single row red LED display. Main display range: -9999~29500
Switching input	1 way in, short connection effective (Optional)
Switching output	Optional 4-way relay or OC output Relay contact AC 250V/1A, OC output drive 100mA/ 48V
Transfer	Output 4-20mA, 0-20mA, 0-5V, 0-10V, 12bit accuracy, driving load ≤500 euros
Communication	485 communication port can run ModbusRTU protocol or active upload protocol (Transmission communication can only choose one)
Use environment	Ambient temperature :-20~50℃; Relative humidity :≤85%RH; Avoid strong corrosive gases
Working power supply	AC 100~ 240V, 50~60HZ; Power consumption ≤5W
Structure	Tray/cabinet mounted, high quality plastic housing 220 Dimensions: 96*48*84mm, hole size: 92*45mm

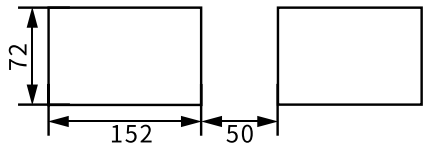
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DY220B Indicator

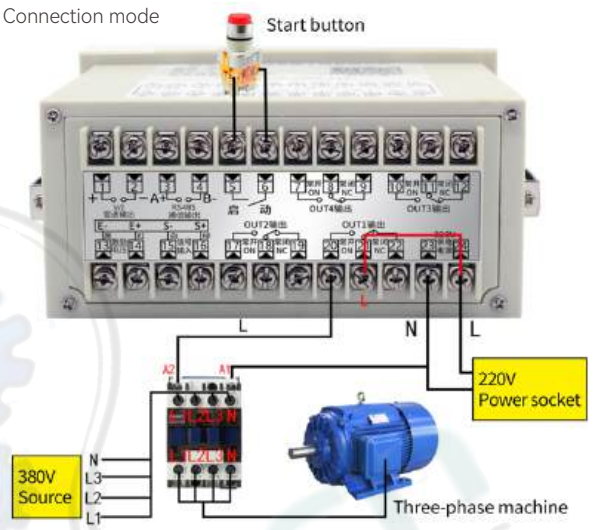








Connection mode



Product Reviews

Characteristic

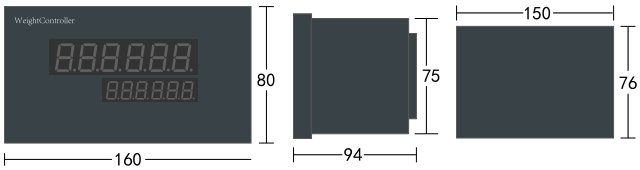
1. The maximum collection speed is 80 times /s.
2. With switching input and output.
3. OC output can be set and output can be transmitted.
4. Supports Modbus-RTU 485 communication.
5. Can be set: quantitative start control, simple comparison output, on start work, peak hold working mode, upper/lower alarm output, sorting mode.

Parameters Table	
Input signal	0-2.5MV/V Supply bridge voltage 5V/ 100mA
Measurement accuracy	0.05%
Sampling rate	10 times or 80 times per second can be set
Display mode	Single row red LED display. Main display range: -9999~29500
Switching input	1 way in, short connection effective (Optional)
Switching output	Optional 4-way relay or OC output Relay contact AC 250V/1A, OC output drive 100mA/ 48V
Transfer	Output 4-20mA, 0-20mA, 0-5V, 0-10V, 12bit accuracy, driving load ≤500 euros
Communication	485 communication port can run ModbusRTU protocol or active upload protocol (Transmission communication can only choose one)
Use environment	Ambient temperature :-20~50℃; Relative humidity :≤85%RH; Avoid strong corrosive gases
Working power supply	AC 100~ 240V, 50~60HZ; Power consumption ≤5W
Structure	Tray/cabinet mounted, high quality plastic housing 220B Dimensions: 160*80*125mm, hole size: 152*72mm

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DY300 Indicator





- Pressure
- Flow
- Location
- Composition analysis
- Mechanical quantity
- Measure
- Display
- Alarm monitoring
- Data acquisition
- Record

Product Reviews

Characteristic

The instrument adopts 24-bit A/D converter, and works with various sensors and transmitters to measure, display, alarm monitoring, data acquisition and recording of physical parameters such as pressure, flow, level, component analysis and force and mechanical quantity.

Parameters Table	
Measurement accuracy	Better than 0.05%
Measuring speed	60, 120Hz
Temperature drift	<10ppm
Display division	-99999 ~ 99999
Relay	3 ways
Communication protocol	Isolated RS485 communication, support Modbus-RTU protocol and active transmission protocol
Converter output	The 0 to 10V/4 to 20mA voltage with load greater than 10k, the current with load less than 500Ω
Communication rate	0~19200
AD conversion	24-bit AD precision acquisition
Switching output	Standard with 2 (large size can be optional three), Relay output
Switching input	1 way open zero clear, drop-down effective, use passive node driver (small size does not have this function)
Supply voltage	DC 24V or AC 220V
Use environment	Temperature: -20 ~ 70℃, relative humidity: <90%(no condensation)

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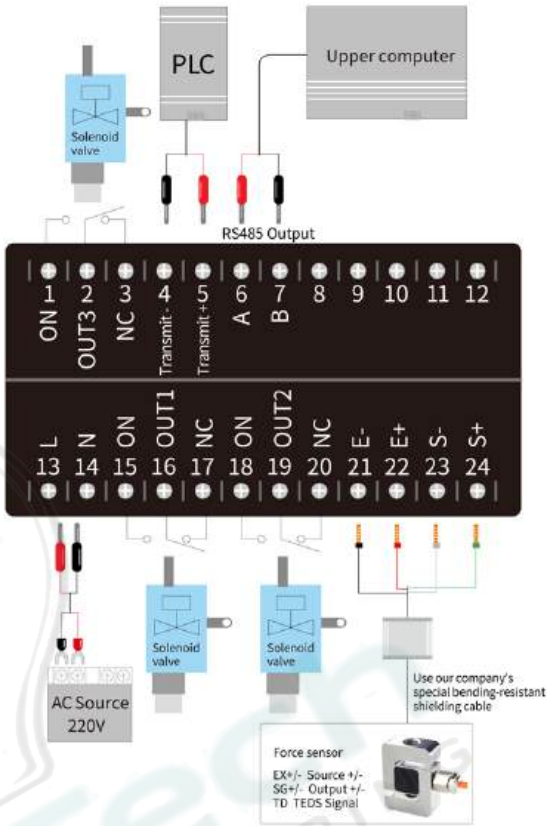
DY300A Indicator

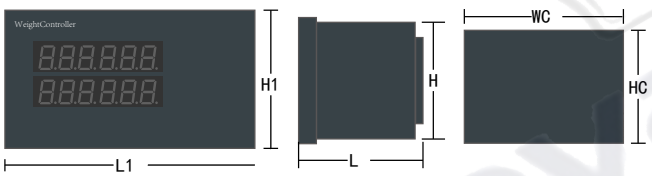




Sensor

Terminals marked clearly, easy to operate





Model	L1	H1	H	L	WC	HC
DY300A	95	47	44	111	92	45
V9696N2	96	96	96	105	92	92

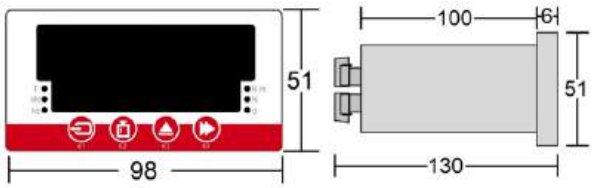
Parameters Table

Measurement accuracy	Better than 0.05%
Measuring speed	60, 120Hz
Temperature drift	<10ppm
Display division	-99999 ~ 99999
Relay	3 ways
Communication protocol	Isolated RS485 communication, support Modbus-RTU protocol and active transmission protocol
Converter output	The 0 to 10V/4 to 20mA voltage with load greater than 10k, the current with load less than 500Ω
Communication rate	0~19200
AD conversion	24-bit AD precision acquisition
Switching output	Standard with 2 (large size can be optional three), Relay output
Switching input	1 way open zero clear, drop-down effective, use passive node driver (small size does not have this function)
Supply voltage	DC 24V or AC 220V
Use environment	Temperature: -20 ~ 70℃, relative humidity: <90%(no condensation)

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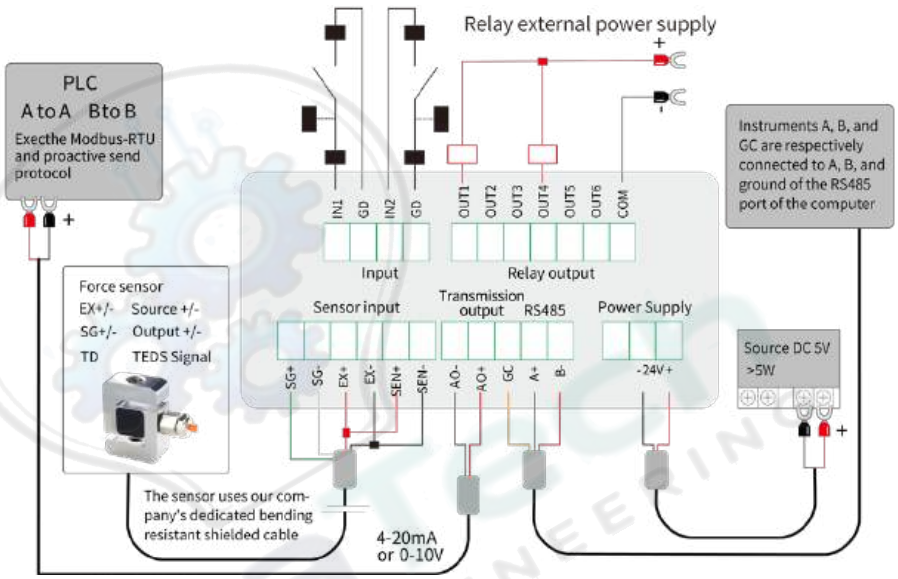
DY800 Indicator





Open hole size:93*46mm

- Creep tracking
- Quick collection
- Wave filtering
- Nonlinear correction
- Scale transformation
- Power on reset
- Automatic zeroing
- Manual reset (button/communication)
- Add ingredients
- Loading and unloading materials
- Sensor over limit record



Product Reviews

Characteristic

Adopting proportional measurement method for rapid acquisition, filtering, scaling transformation, nonlinear correction, and display of measurement signals. Upper and lower limit comparison function, peak valley value capture function. Equipped with power on reset, manual reset (buttons, communication), and automatic reset. It has zero position tracking and creep tracking functions. Sensor overload record. Optional isolated RS485 communication, supporting Modbus RTU protocol and active transmission protocol. Optional isolated transmission output. Supports voltage output of 0-10V and current output of 4-20mA. Double row display. 6-digit main display and 8-bit auxiliary display, 6-digit LED display unit. Capacitive touch button with button lock function.

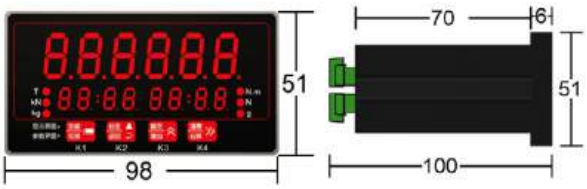
Parameters Table

Sensor power supply	5V	Communication speed	2400~115200
Measurement accuracy	Better than 0.1%	Switching output	6-way relay
Measuring speed	5-200Hz	Switching input	2-channel entry
Temperature drift	<10ppm	Node driving capability	3A/250V AC or 30V DC (resistive load)
Display division	-99999~999999	Supply voltage	10-30V DC
Transmission output	0~10V or 4~20mA	Use environment	Temperature:-20~70℃ Relative humidity:<90% (non condensing)

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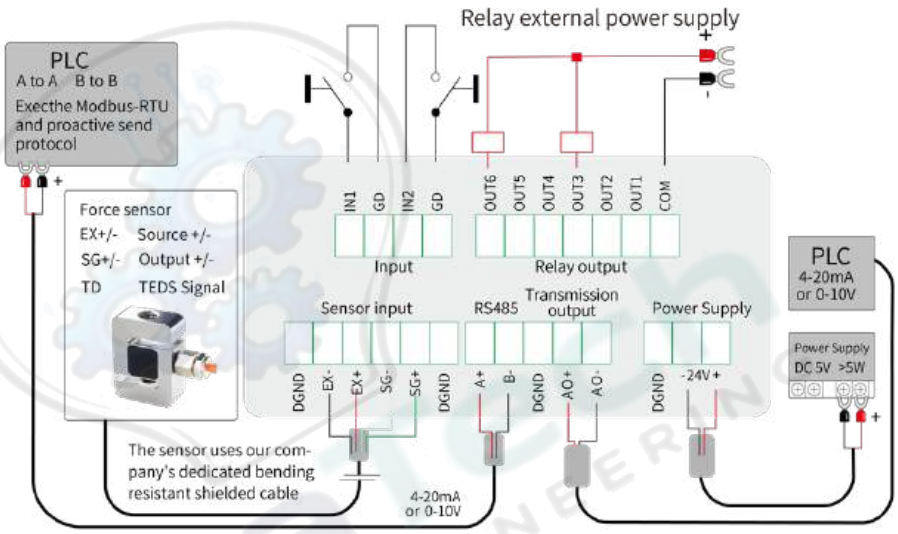
DY810 Indicator





Open hole size:93*46mm

- Creep tracking
- Quick collection
- Wave filtering
- Nonlinear correction
- Scale transformation
- Power on reset
- Automatic zeroing
- Manual reset (button/communication)
- Add ingredients
- Loading and unloading materials
- Sensor over limit record



Product Reviews

Characteristic

The instrument adopts a proportional measurement method to collect data, and collects, filters, scales, corrects nonlinearity, and displays the measurement signals. Comparison of upper and lower limits, peak valley value capture function, with power on reset, manual reset (button, communication), automatic reset, zero position tracking and creep tracking functions. Sensor over limit recording, optional isolated RS485 communication, supports Modbus RTU protocol and active sending protocol. Optional isolated transmission output. Supports voltage output of 0-10V or 4-20mA current output. Double row display, 6-digit main display and 8-bit auxiliary display, 6-digit LED display unit. Capacitive touch button with button lock function. Value offset function.

Parameters Table

Measuring channel	5V power supply	Communication rate	2400 ~ 256000
Measurement accuracy	Better than 0.05%	Switching output	2-way (4-way optional) relay /OC output is standard
Measuring speed	10, 20, 80, 320Hz	Switching input	The IN1 and IN2 pull-downs are valid. Use OC or passive node driver
Temperature drift	<10ppm	Supply voltage	15 ~ 30V DC (24VDC recommended)
Display division	-99999 ~ 999999	Working environment	-20~70℃, Relative humidity <90%(no condensation)
Converter output	0 ~ 10V/4 ~ 20mA voltage with load > 10k, current with load < 500Ω		

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DY920 Indicator





Multi-channel indication diagram







Product Reviews

Characteristic

1. The sampling rate can reach up to 12800Hz.
2. The nonlinearity is better than 0.01%, and the accuracy is better than 0.1%.
3. Display scale from -99999 to 999999.
4. The battery can be charged and discharged approximately 1000 times.
5. Analog signal input range -15~15mV.
6. The temperature drift is less than 20ppm.
7. Charging time is about 6 hours.

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DY920 Indicator



External sensor model



Built-in sensor model

Parameters

01

The sampling rate is adjustable from 50Hz to 12800Hz.Six adjustable gears.

02

High sampling rates capture peaks more accurately.

03

The real-time curve and the last history curve are displayed.

04

Check the stress of the working process.

05

Real-time automatic capture of equipment peak and valley values, analysis of sensor status.

06

Parameter backup and recovery, modify disorderly parameters can also be restored in one key.

07

No weight calibration, just enter the sensor parameters to complete the calibration.

08

Use our TEDS smart sensor, power automatic calibration, modify the corresponding unit and decimal point.

09

Use a TYPE-C data cable (optional RS485) to communicate with Modbus directly on a PC.

10

Interface test interface, you can view serial port and wireless communication debugging data.

11

200 groups of peak and valley historical data are saved, and power failure is not lost.

12

Upper limit alarm; Lower limit alarm; Peak-valley alarm; Double the range automatic alarm.

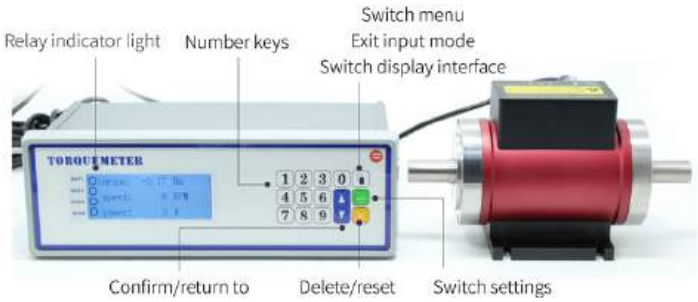
13

Multiple capture options:
Threshold - threshold; Threshold - time;
Threshold - Press the button.

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DYN-303 Indicator





- The Rs232 protocol
- The RS485 Modbus-RTU protocol
- Automatic power clearance
- Upper and lower limit alarm
- Automatic zero tracking
- Torsion
- Speed
- Power
- Connect the printer
- Set the alarm



Product Reviews

Characteristic

The instrument uses ARM kernel processor as the main control. Connected to a dynamic torque sensor whose signal output is frequency, the current torque value can be read quickly. Support current and voltage analog output. Supports RS485 output. RS485 and RS232 can be independently output, do not affect each other.

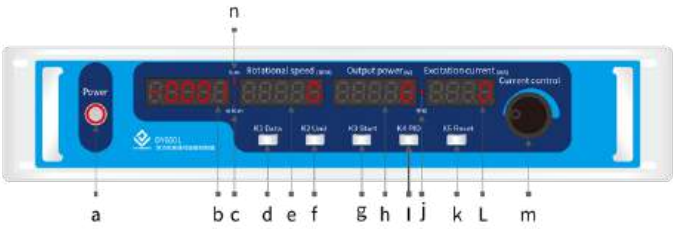
Parameters Table			
Measurement accuracy	± 0.05% F.S	Reveal	LCD display (192*64)
Torque acquisition speed	200 times per second	Torque input signal	5000~15000Hz
Speed of speed acquisition	200 times per second	Speed input signal	0.3-15000 hz
Class of protection	IP65(Front Panel Protection)	Power display range	0~99999
Power consumption	≤15VA	Torque display range	-99999~99999
Supply voltage	100-240V AC 50/60Hz	Speed display range	0~99999
Output voltage	24V±5%, current <320MA	Support Modbus-RTU RS485/RS232 protocol, ASCII	
Working environment	-20-55°C 20-90% RH	Supports four relay outputs to supply power to the sensor	

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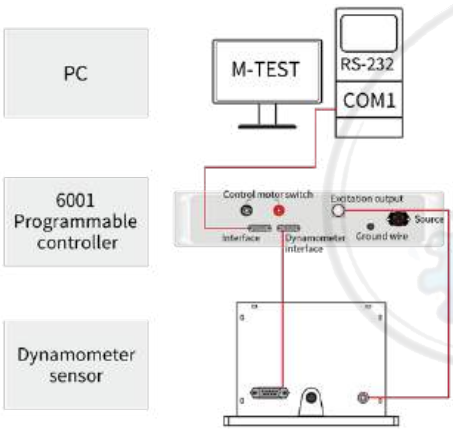
DY6001 Indicator

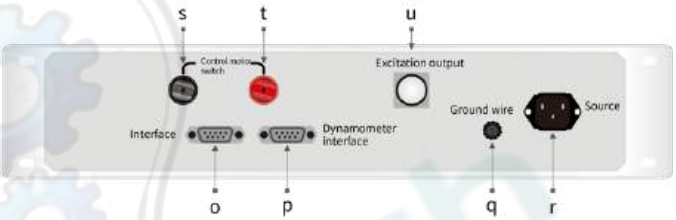






a: Instrument power switch
b: Torque value display window
d: K1 menu button
e: Speed value display window
a: Instrument power switch
b: Torque value display window
d: K1 menu button
e: Speed value display window
i: K4 PID tuning button
c n: Torque value unit display
k: K5 overall data reset button
j: Manual mode prompt
m: Excitation current adjustment knob





s t: Motor control switch, in case of emergency, the instrument can disconnect the motor source
u: Excitation output maximum output 30V2A is given to the brake
o: Communication interface with upper computer
p: Communication interface with torque sensor and speed sensor, supporting all dynamic torque sensors of our company
q: Grounding wire
r: Connect to 220VAC source

Product Reviews

Characteristic

It is a kind of can sample and process a variety of torque sensor signals and dynamometer signals, while controlling the magnetic powder magnetic lag brake.

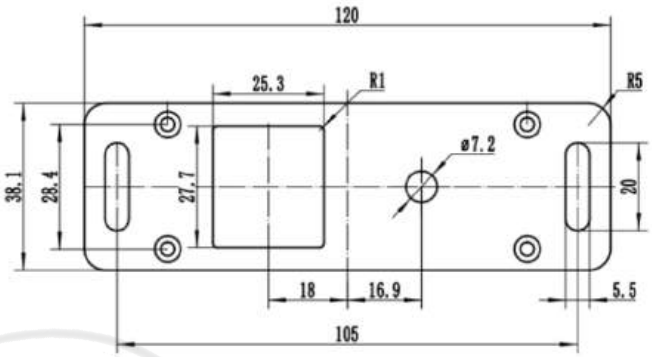
And transmit its signal to the upper position computer. Display the real-time torque, rotational speed and calculated power values.

Parameters Table			
Real-time display	Torque value/speed value	Torque range	Can be set to ≤ 99999
Display	Power value	Range of torque value display	-9999-99999
Speed	Collection speed ≤ 20 times/second	Speed value display range	0-99999
Torque	Collection speed ≤ 800 times/second	Optional speed sensor signal	60120125015002000 pulse/rev
Signal communication	RS232 communication with upper computer	Source	AC220V ± 10%, 50/60Hz
Output current	0-2000MA	Whole machine power consumption	<90W
Current accuracy	±2mA	Ambient temperature	-20-50℃
Output voltage	≤30V	Relative humidity	≤85%RH
Comes with PID			

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DYCSM Indicator







Turn the knob

Clockwise
Current parameter increase

Counterclockwise
Current parameter reduce



Press the knob

Press and hold the knob
Interface switching

Press the knob short
Check current parameter



Product Reviews

Characteristic

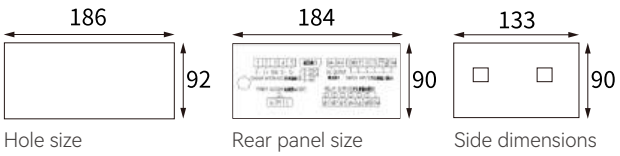
The instrument uses ARM core processor as the main control, and uses high-end precision operational amplifier as the current control. Internal use of high-speed DAC, so that the current output speed is faster. The current output period is 5MS, which is convenient for the upper computer to PID control the dynamometer. The MODBUS RTU can be integrated into the RS485 network, which can read the current value and other parameters in real time, and support control of the output current. The controller has a total of four current output ranges. 0-500mA, 0-1000mA,0-1500mA, 0-2000mA.

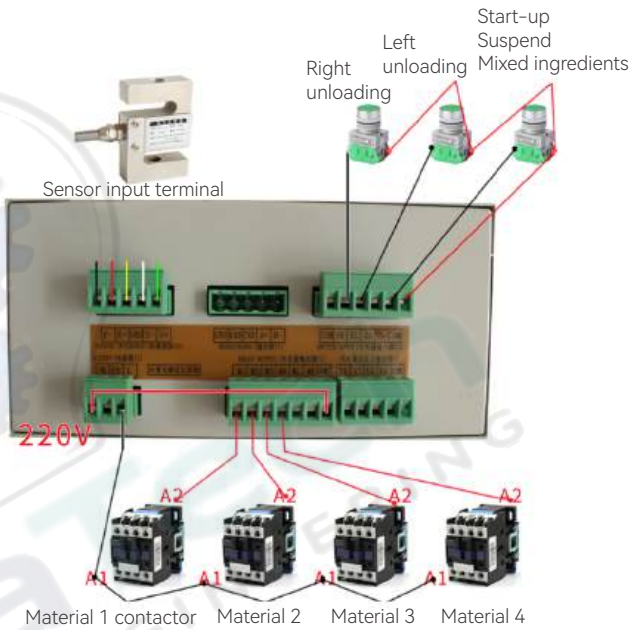
Parameters Table			
Output accuracy	± 0.3% F.S	No-load power	≤1.5W
Output speed	20 times/s	Current display range	0~9999
Display	OLED display (128*64)	Use environment	Temperature: -20-65℃ Humidity: 20-90% RH
Supply voltage	12-30V		

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DY300 Multi-Function Controller Indicator







- Rs232/485
- Zero position tracking
- Delayed start
- Digital filtering
- Delay loading/unloading
- Temperature compensation
- Power on reset
- Number of cans control
- Quick ingredients
- Move to remove white

Product Reviews

Characteristic

1. Delay loading, unloading, start set the number of cans 0-99 cans.
2. Power-on zeroing, first peeling, automatic peeling, fast and slow ingredients loading and unloading drop automatic compensation.
3. Can be set to start production conditions ("0" means can start at any time except for ingredients, material parameter Settings, function Settings, adjustments. "1" indicates that the net weight can be started within the zero return range. "2" indicates that the gross weight can be started within the return to zero range. "3" means that the gross weight is within the return to zero range and no production can be started).
4. Automatic temperature compensation.

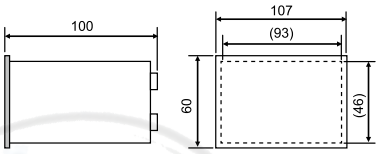
Parameters Table			
Source	Ac 220V±10% or 380V±10%, 50Hz±2%	Signal range	0-10mV
Power dissipation	9W	Display range	Max. 20000
Use environment	Temperature: 0- 50℃ Humidity: ≤90%RH (no condensation)	External power supply	Any AC/DC voltage below 380V
		Contact capacity	≤3A
Bridging source	5V±5% Maximum load capacity 150mA		

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DY310 Indicator



- Peak value judgment
- Filtering and Stability Determination
- Multi tasking work mode
- Clearly maintain
- Upper and lower limit alarm
- S232/485
- Power on reset
- Zero position tracking/ fine-tuning/calibration
- Load calibration
- Current and voltage output



Overall dimension | Front panel size | Dimensions of opening holes on disk face



Installation mode

Product Reviews

Characteristic

1. Four fixed value output modes: weight [force value] upper and lower limit DO alarm mode, weight [force value] incremental DO output mode, weight [force value] reduction DO output mode and weight [force value] interval DO output mode.
2. The whole machine EMC design, strong anti-interference ability, suitable for industrial environment.
3. 32-bit ARM CPU, 48MHz main frequency, fast operation speed.
4. 5-bit red LED digital tube with English character/number display.
5. Adopt 24-bit high-precision high-speed Σ-ΔA/D conversion module, internal resolution 1/1,000,000, sampling frequency 1280Hz.
6. The unique anti-vibration filtering algorithm is used to ensure the stability and accuracy of the weighing results when the scale body vibration is strong, and the rapid response ability when the weight changes.
7. Optional digital calibration, segment correction and segment calculation functions.
8. It has the functions of automatic encryption, key encryption, key decryption, digital setting, digital adjustment and interface testing.
9. 2 relay switches (including normally open and normally closed contacts) output upper/lower limit alarm signals.
10. 1 Optional definable analog signal output AO: 0~20mA.
11. Optional RS232 and RS485 communication port external connection machine IPC/PLC and LED remote display.
12. It adopts multi-task mode, and does not affect the process of weighing, alarm output and signal transmission when parameter setting and other operations are carried out.

Parameters Table

Weight display range	- 9999 ~ + 99999	Gain drift	±5ppm/℃
Maximum weighing capacity	Can be set 1 ~ 99999	Nonlinearity	0.005% FS
Display division	Optional 1,2,5,10,20,50,100,200,500	Relay switch contact capacity	AC250V/DC24V, 1A
Display resolution	1/50000	COM1	Optional RS232
Decimal point	Optional 0,0.0, 0.00, 0.000, 0.0000	COM2	Optional RS485
Display refresh time	Can be set 0.01~1.00s	Connectable	PC IPC/PLC and LED remote display
Excitation voltage/max. current 1	DC 5V/120mA Can be connected to 8 350Ω load cell	Operating voltage	DC24V±20%
Excitation voltage/max. current 2	DC 12V/200mA	Maximum power consumption	5W
Internal resolution	1/1000000	Operating temperature	-25℃ to +40℃
Sampling frequency	1280Hz	Storage temperature	-30℃ ~ +60℃
Zero drift	±0.1μV/℃ RTI (converted to input)	Relative humidity	≤85% RH

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DY320 Indicator







- RS232C
- Set filtering
- Manual/automatic zeroing
- Livestock scale mode
- Alarm output

Product Reviews

Characteristic

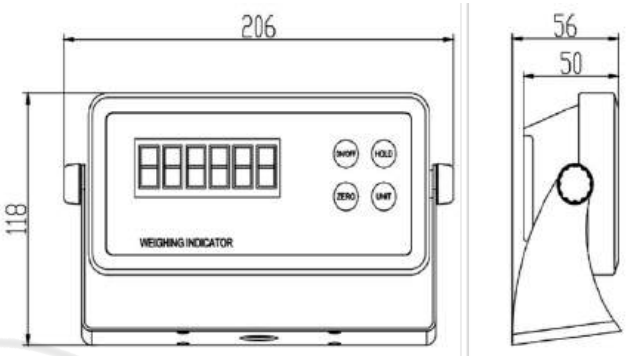
1. 5 units can be switched at will, and the communication mode supports continuous transmission, stable transmission, response mode, and manual mode.
2. The instrument has a livestock scale mode, can set the upper and lower alarm.
3. Manually set zero, auto set zero.
4. Zero tracking can be set, built-in battery.
5. Applicable to a variety of weighing environments.
   such as: platform scales, livestock scales and public equipment field force measurement.

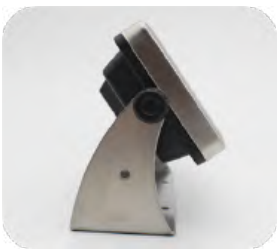
Parameters Table			
Accuracy	Level III	AD output speed	40 times/s (Optional 10 or 40)(B10 only 10 times/s)
Specification	(0~3000)d	Internal resolution	≤ 240,000
Nonlinearity	0.01% or less F.S.	Rechargeable battery	6V 4Ah
System operating voltage	DC:5V	Ac power supply	Use adapter
Division value	1/2/5/10/20/50 Free setting	Input	AC 120~240V
Large screen display interface	Sampling serial output mode	Output	DC 12V/500mA

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DY330 Indicator









- Electricity monitoring
- Automatic shutdown
- Backlight control
- Peak retention
- Auto hold
- Peel
- Continuous/Manual transmission
- Set to zero
- Multiple unit switching
- Value retention

Product Reviews

Characteristic

1. Low power design, longer battery life.
2. 6-bit 20mm word height LCD display.
3. Battery voltage detection low voltage reminder, underpower shutdown
4. Hold the function to lock the weight
5. Idle mode and automatic shutdown zero, tare function
6. Optional serial port output to connect to a large screen or computer

Parameters Table			
Accuracy class coincidence	OIML class standard	Manually set the zero range	±2% maximum weighing
Peeling range	2% to 100% maximum weighing	Use temperature, humidity	-10~+40℃; ≤90%RH
Zero range on power	±10% maximum weighing	Storage temperature	-40 ~ +70 ℃

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DYHB Indicator





Product Reviews

Characteristic

1. The maximum collection speed is 80 times /s.
2. With switching input and output.
3. OC output can be set and output can be transmitted.
4. Supports Modbus-RTU 485 communication.
5. Can be set: quantitative start control, simple comparison output, on start work, peak hold working mode, upper/lower alarm output, sorting mode.

Parameters Table		
Supply voltage	AC power supply	100~240 V AC 50/60 Hz
Power consumption	AC power supply	Below 10W
Allowable voltage variation range		90%~110% of the power supply voltage
Insulation resistance		>100M Ω (500V DC MEGA reference)
Insulation strength		2000V AC (Test conditions: 50/60Hz, 1 minute)
Anti-interference		IEC61000-4-2 (Electrostatic discharge), Class III
		IEC61000-4-4 (Electrical Fast Transient Pulse Group), Class III
		IEC61000-4-5 (Surge), Level III
Protection level		160x84 size instrument: IP65 (product front panel protection) (GB/T42-2008)
Operating environment	Temperature	-10~55℃ (storage: -25~65℃)
	Humidness	35~85% RH, no condensation
	Installation position	Indoor, height<2000m

Optional parameter table			
Comparison output	R2	96x49.5mm instrument with optional 2-point relay output	250V AC/3A Resistive load
	R4 /R8	160x84mm instrument with optional 4/8-point relay output	
Analog output	A1	Current output (4~20) mA, (0~10) mA, (0~20) mA	Optoelectronic isolation Resolution: 1/3000 Load capacity: 600 Ω
	A2	Voltage output (1-5) V, (0-5) V	
Communication interface	S1	RS232 interface, TC ASCII protocol	Photoelectric isolation Response time: 500 μs (measured value)
	S2	RS485 interface, TC ASCII protocol	
	M1	RS232 interface, Modbus RTU protocol	
	M2	RS485 interface, Modbus RTU protocol	
Power specifications	V0	100~240V AC (50/60Hz)	

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DYCHB Indicator



- Peak valley value judgment
- Filtering and Stability Determination
- Compare output
- RS232/485
- Power on reset
- Zero position tracking
- Transmission output upper and lower limits

Product Reviews

Characteristic

1. 0.05 level measurement accuracy, 10 times per second measurement and control speed.
2. Net weight, gross weight, peak value, valley value processing and switching display.
3. Upper limit, lower limit, deviation, range 6 alarm methods.
4. Zero tracking, stability, boot automatic zero clearing function.
5. Alarm status, engineering unit indicator light.

Parameters Table			
Supply voltage	AC Power supply 100-240 V AC 50/60 Hz	International Protection	IP65 (front of product)
Power consumption	AC power supply less than 7 VA	Surrounding environment	-10 ~ 55℃ ; Store -25 ~ 65℃
Allowable voltage variation range	90 ~ 110 % of the supply voltage		35~85%RH ; Store 35~85%RH
Insulation impedance	100MΩ + (500 V DC MEGA standard)	Measurement control speed	10 times per second
Withstand voltage	1 minute at 2000 V AC 50/60Hz	Basic error	± 0.05% F.S
anti-interference	IEC61000-4-2 (Electrostatic Discharge), Class III	Display range	-19999~45000 Display OL when overloaded
	IEC61000-4-4 (Electrical Fast Transient Pulse Group), Class III		Proportional measurement with 4-wire strain sensor
	IEC61000-4-5 (Surge), Class III	Input signal	Suitable for 0.8~2.5mV/V

Parameters Table			
A1	Analog output or communication interface	Current output 4~20mA, 0~10mA, 0~20mA	Resolution 1/3000
A2		Voltage output 0~5V, 1~5V	
A3		Voltage output 0~10V	Speed :2400; 4800; 9600; 19200 Address :0-99 Response time :500μs(measured value)
M1		The Modbus-RTU protocol RS232	
M1		The Modbus-RTU protocol RS485	

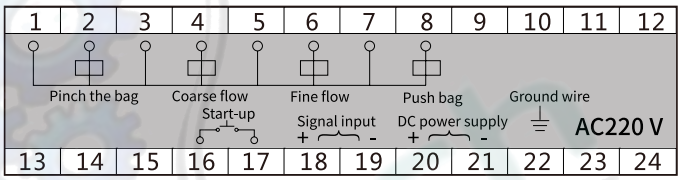
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LN965A Indicator



- Carrying with it
- Coarse flow
- Fine flow
- Push bag
- Zero position range
- Unpacking
- Number of cans control
- Delay start
- Delayed bag pushing/unloading





Product Reviews

Characteristic

Specially for chemical, grain, cement and other valve port packaging machine to provide automatic control after quantitative precision intelligent instruments.

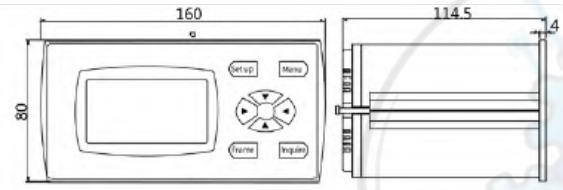
It has the characteristics of simple operation, convenient calibration, stable performance, double valve, high precision, etc., it adopts double panel design, has good anti-interference ability, and can be used reliably in complex and harsh environments.

Parameters Table			
Power source	AC 220V ± 10% -15%, 50Hz ± 2%	Operating ambient temperature	0- 50°C
Power dissipation	9W	Working ambient humidity	≤ 90% RH (no condensation)

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SXR21 Indicator





Key function	
Display area	Various running and setting screens are displayed
Enter key	Select the operation and proceed to the next setting
Escape	In the Settings state, press and hold to exit the parameter setting
	The modification of the current parameter is abandoned
Left button	In the measurement state, press and hold to print
	In Settings, move the modification bit to the left
Right button	Long press to clear peak value under rapid measurement condition
	In the Settings state, move the modification bit to the right
Upper key	In the Setting state, you can add a parameter value or change the setting type
Down key	In the Setting state, reduce the parameter value or change the setting type
Display key	Switch real-time screen display
Search key	Switch query screen display

Product Reviews

Characteristic

Low power design, longer battery life.
6-bit 20mm word height LCD display.
Battery voltage detection low voltage reminder, underpower shutdown.
Hold the function to lock the weight.
Idle mode and automatic shutdown zero, tare function.
Optional serial port output to connect to a large screen or computer.

Parameters Table		
Supply voltage	AC power supply	100~240 V AC 50/60 Hz
	AC/DC power supply	10~24VAC 50/60 Hz; 10~24V DC
Power consumption	AC power supply	Up to 8 VA
	AC/DC power supply	AC: less than 7 VA; DC: less than 6W
Allowable voltage variation range		90%~110% of the power supply voltage
Insulation resistance		≥100MΩ (500V DC MEGA standard)
Insulation strength		2000V AC (Test condition: 50/60Hz, 1 minute)
anti-interference		IEC61000-4-2 (Electrostatic Discharge), Class III
		IEC61000-4-4 (Electrical Fast Transient Pulse Group), Class III
		IEC61000-4-5 (Surge), Class III
International Protection		IP65 (Product Front Panel Protection) (GB/T42-2008)
Operating environment	temperature	-10~55℃ (Storage: -25~65℃)
	humidness	35~ 85% RH, no condensation
	Installation position	Indoor, height < 2000m

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XSB2 Indicator





level
component
strength
displacement
temperature
measure
Transform
Visual control
delivery
Pressure
flow

Product Reviews

Characteristic

Single channel digital intelligent instrument with all kinds of analog output sensors, transmitters, complete temperature, pressure, flow, level, composition and force and displacement and other physical quantities of measurement, transformation, display, transmission and control.

The instrument adopts MCU embedded combination design, the hardware expansion is strong, the software platform is flexible, can expand the switch input, timing, program sequence control, etc., is not limited to standard functions.

Can be combined according to actual needs for optimal performance.

Parameters Table

Display range	-1999~9999 Decimal point position can be set	Basic error	< ±0.2%F.S
Display color	Measurement value green, set value red, light column red, or according to order requirements	Measuring resolution	1/60000, 16-bit A/D converter
Display resolution	1/10000	Measurement control period	0.2 seconds
Input signal type	Voltage, current, thermal resistance, thermocouple, mV, potentiometer, remote pressure gauge 7, including: Voltage: 1V~5V DC, 0V~5V DC, can be selected by setting Current: 4mA~20mA, 0mA~10mA, 0mA~20mA, can be selected by setting		

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CH6 Indicator



Product Reviews

Characteristic

CH6 series digital display instrument with all kinds of analog output sensors, transmitters, complete the temperature, pressure, liquid level, composition and other physical quantities of measurement, transformation, display, and control error is less than 0.5%F.S, and has the adjustment of digital filtering function, Suitable for standard voltage, current, thermal resistance, thermocouple signal type 2-point alarm output, upper limit alarm or lower limit alarm mode can be selected. Alarm sensitivity independent set transmission output (optional), the measured and transformed display value can be output in the form of standard current and voltage for other devices.

Input & Output Specifications Table

Input		Output		
Measurement control speed	More than 5 times/s	Contact output	T2: 2 points, resistive load 250VAC/3A	
Basic error	±0.5 %F.S	External power supply	B1: 24V±5%, below 50mA	
Display range	-1999 ~ 9999	Analog output (Resolution 1/3000)	Current output (4-20) mA, (0-20) mA, (0-10) mA	A1: Not isolated from external power supply (when no external power supply is required)
Input signal (Universal input, select input signal through parameters)	Voltage V: 0-5V /1-5 V			A1G: Isolated from external power supply (when external power supply is required)
	Electric current: 4-20/0-10/0-20 mA			
	Thermal resistance: Pt100/Cu100/Cu50/BA1/BA2/G53			
	Thermocouple: K/S/R/B/N/E/J/T			

Parameters Table

Supply voltage	AC power supply	100-240 V AC 50/60 Hz
	AC/DC power supply	10-24V AC 50/60 Hz; 10-24V DC
Power consumption	AC power supply	Below 6 VA
	AC/DC power supply	AC: less than 6 VA; DC: less than 6W
Allowable voltage variation range	DC power supply should have a certain power margin, please configure the power supply according to 24VDC/0.5A, 12VDC/2A and pay attention to the length and diameter of the power cable.	
Insulation resistance		90 ~ 110 % of the supply voltage
Withstand voltage		100MΩ + (500 V DC MEGA standard)
Anti-interference		IEC61000-4-2 (Electrostatic Discharge), Class III
		IEC61000-4-4 (Electrical Fast transient Pulse Group) Class III
		IEC61000-4-5 (Surge) Class III
International protection		IP65 (front of product)
Operating environment	Temperature	-10 ~ 55℃; Store at -25 ~ 65℃
	Humidness	35 ~ 85% RH; Store 35 ~ 85% RH
Obtain certification		CE

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700WC Indicator



- Alarm
- Zero position tracking
- Automatic peeling
- Run after pause
- Report function
- Adjustment of gap
- Start and stopping
- Manual unloading
- Batch run
- Feeding method
- Automatic unloading

Product Reviews

Characteristic

The 700WC hopper scale controller is a cumulative batching control instrument designed specifically for concrete, stabilized soil and other batching systems. It can complete up to 6 cumulative batching controls, and each batching can choose between small and large feeding or single feeding, making it very suitable for complex batching control systems composed of upper computers.

1. It can achieve up to 6 cumulative ingredients.
2. Two feeding methods: dual speed feeding or single speed feeding.
3. Multiple startup methods: external startup and communication startup,
4. There are multiple ways to unload materials. 1 is automatic unloading, and the feeding is completed automatically. 2 is for external control of unloading. Unload only when the external signal is valid.
5. Setting of ingredient quantity. You can input the ingredient quantities and advance quantities of each route through keyboard or communication, or directly import them from the recipe library. The instrument saves 20 formulas.
6. It has batch control function.
7. Real time clock display.
8. Optional analog output function.
9. It is possible to query and print cumulative data from 100 batches, and reports can be printed automatically or manually.
10. Automatic zero position tracking, automatic zeroing, and automatic drop adjustment.
11. Interface testing, data backup, and recovery functions.
12. 485 serial port, supporting Modbus RTU communication protocol. If the serial port is invalid when using the printer.

Parameters Table

Instrument comprehensive error	<0.02%	Relay output port	8-way relay output or OC output
Sensor input port	Can connect 4 350 ohm sensors	Relay drive current	5A/30VDC, 250VAC
Sensor sensitivity requirements	Above 1.5mv/v	Analog output	12 bits, 4-20mA
Weight data range (including decimal parts)	0-32767	Drive load	<=250Ω
Total cumulative value	0.000-1,000,000,000	communication interface	RS485 executes Modbus RTU protocol (from)
Weight units can be selected	kg / t	External dimensions	Disk mounted 85×160×125 (H×W×D) mm
Input interface	4 channels, effective pull-down		Hole size: 76×151mm
Start signal input	DI1(Start)	work environment	-10~50℃/5-90% RH
Unloading allowed	DI2	Working power supply	220V/50Hz ±30% 5-7W

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DY2025 Indicator









Product Reviews

Characteristic

High cost-effective standard level measuring instrument, 0 The commonly used measuring instrument for 1% -0.3% standard force gauges, with a rated division of 50000-30000 and a 6-digit display. The habitual standard configuration of standard force measurement applications and related mechanical testing equipment, with sufficient performance redundancy, meets the stricter technical standards and requirements for all levels of force gauges in the current standard force measuring instrument calibration regulation JJG144-2007.

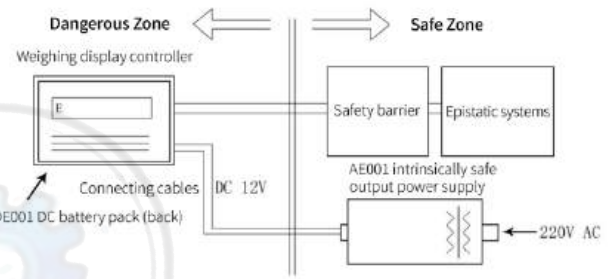
Parameters Table			
Adapt to the level of force meter	0.3%	AD conversion rate	50 times/s
Input signal range	4. 0mV/V	Repeatability and linearity	0.01%F.S.
Optional channel specifications	1/6/24/40	Gain temperature drift coefficient	10ppm
Excitation output voltage	10V DC	MV/V accuracy	0.03%F.S.
Display digit size	6-digit -1.0 inch	Communication printing interface	RS232
Rated display division	100 thousand		

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DY3190 Indicator















Instrument box Customized explosion-proof sensors Explosion proof junction box

Product Reviews

Characteristic

The explosion-proof instrument intrinsic safety weighing display controller is a new generation of weighing display control instrument recently launched by our company. It adopts intrinsic safety design technology and has two power supply modes: battery/intrinsic safety power supply. Make the instrument have the characteristics of small size, light weight, complete functions, and easy use. The product has been inspected and recognized by the national level explosion-proof safety supervision and inspection station for instruments and meters, and meets the relevant provisions of the national standard "GB3836.1/4-2010" for electrical equipment used in explosive gas environments. The explosion-proof mark is ExibICT3. Users can use this product in corresponding explosive hazardous areas according to regulations.

Parameters Table			
Accuracy level	Level 3, n=3000	Usage temperature	0~40℃
Sampling speed	10-20 times/second	Humidity	≤85%RH
Sensor sensitivity range	1.5~3mV/V	Storage and transportation temperature	-25~55℃
Division value	1/2/5/10/20/50 Optional	Power supply	Standard external intrinsically safe output power supply (model AE001)
Display	6-digit LCD display		Optional external intrinsically safe output battery pack (code: DE001)
Sensor excitation power supply	+5V	Explosion proof mark	ExibIICT3

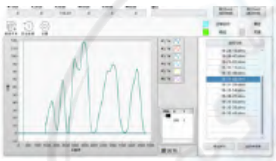
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R305 Indicator





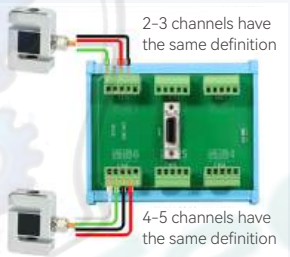




Supporting paid collection software

- Free debugging software.
- The instrument is mainly divided into the following interfaces:
- data acquisition, history interface, and settings interface.
- The history interface provides curve and table data export, which can delete files, and the data can be exported to Excel. See the history export section later for detailed operation instructions.

Definition of Terminal Wiring



Model: 305A



Attachment	485 to USB cable 1, network cable 1, USB Key 1 (internal Ethernet high-speed acquisition software)
Exclusive function	Ethernet, with Ethernet high-speed acquisition software
Peculiarity	High-speed acquisition, the fastest 1000HZ acquisition with Ethernet software

Product Reviews

Characteristic

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Selection of adaptive software

Recommend

Software name	Option	Available with the meter / transmitter	Maximum number of Sensors	Maximum read speed /hz	Single record time is recommended	Chinese/english switching function	Wiring
DAQ Universal Measurement software-Single channel	None	DY054, DY056, DY500, DY220, DY300, DY800, DY054-W, DY910, DY920, X505, DY200 dynamic torsion sensor	1	With the meter: up to 1000 (According to instrument acquisition speed) Dynamic torque sensor: Torque :500 Speed :1	Within an hour	support	Ordinary 485 line x1
DAQ Universal measurement software-multi-channel	Channel 4/8	DY054,DY056, DY500,DY220, DY800,DY054W, DY300,DY920	4/8	Max 1000 (According to instrument acquisition speed)	Within an hour	support	4 channels: 1 divided into 4 serial port cables x1; 232 to 485 conversion head x4; 8-channel: 4-channel wiring x2
DAQ Universal Measurement Software-Modbus	None	DY220,DY800,DY094, DY610,DY054,DY056, DY2025	9	1	No limit	Not supported	Ordinary 485 line x1
200 Torque measuring software	Single channel / 4 channel	DY200 dynamic torque sensor	1/4	Torque :500 RPM :1	Within an hour	Single channel: Not supported 4-channel: Supported	Single channel: ordinary 485 line x1; 4 channels: 1 divided into 4 serial port cables x1; 232 to 485 conversion head x4
054 Ethernet test software	Single channel / 4 channel	DY054 Instrument (optional Ethernet)	1/4	20000	In 10 minutes	support	Single channel: Ethernet cable x1; 4-channel: Ethernet cable x5, switch x1
094 Supporting software	None	D094 transmitter	9	30	Within 2 hours	support	Ordinary 485 line x1
098 Supporting software	None	D098 transmitter	16	5	No limit	Not supported	Ordinary 485 line x1
X501 Supporting software	Version 485 / Ethernet	X501 transmitter	16	10	No limit	Not supported	Ordinary 485 cable x1, Ethernet cable x1
200 High-speed measuring system	None	DYN-200 PRO	1	Torque :6000 RPM :30	5 minutes	Not supported	Network cable x1

- Software update iteration, please focus on our customer service consultation.

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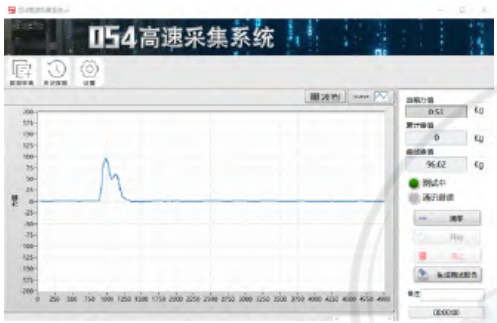
054 High-speed acquisition system



Product Reviews

Characteristic

The system can be used for high-speed impact test, the maximum frequency of 20000Hz can be used to collect force value at high speed, analyze data and draw the curve of force value change, and can export data to Excel or generate test reports.



054 High-speed Acquisition System (Test interface)



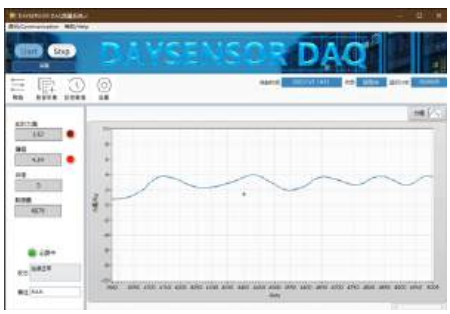
054 High-speed Acquisition System (Impact Test Report)

DAQ Integrated test system

Product Reviews

Characteristic

1. The system can be combined with the company's multiple instruments / transmitters for high-speed acquisition and draw curves, and the real-time value and peak alarm.
2. Provide data storage function, can export the historical waveform according to the date and time in the software, can analyze the historical data, export pictures or excel.
3. The data refresh speed is determined by the connected instrument, up to 900Hz, and with a dynamic torque sensor, up to 500 HZ.



DAQ integrated test system (Pull pressure test)



DAQ integrated test system (Torque test)

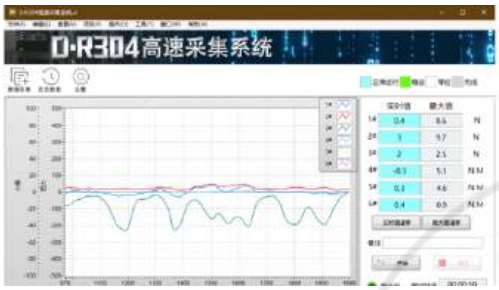
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D.R304 High-speed acquisition system

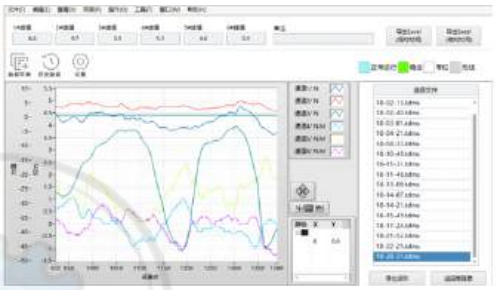
Product Reviews

Characteristic

The system can be combined with the six-dimensional force sensor produced by the company for high-speed acquisition, which can display the real-time value, maximum value and real-time status of Fx, Fy, Fz, Mx, My and Mz data. Real-time force value data can be recorded, and the maximum recording speed can reach 1000 HZ, and the data can be exported and analyzed according to the date and time.



D.R304 High-speed acquisition system
(Data acquisition interface)



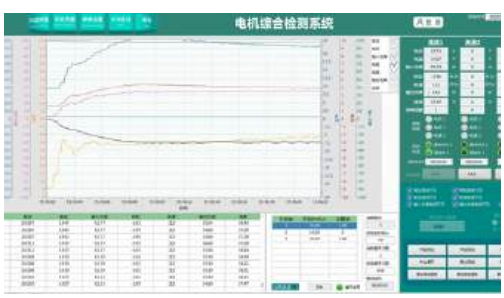
D.R304 High-speed acquisition system
(Historical data interface)

Motor detection system

Product Reviews

Characteristic

1. This system uses the standard motor factory performance inspection, the traditional manual inspection method is inefficient and low accuracy, the use of this system can improve the accuracy, improve the efficiency, and realize the automatic test, the system can support up to 3 machines at the same time testing.
2. Provide test data analysis, automatically extract key data such as no-load point, grid-lock point, maximum torque point, maximum output point, maximum efficiency point, curve X axis can select time, torque and organize these data to generate test reports.
3. The system can collect torque, speed, input power, voltage, current, output power and efficiency, support manual testing, automatic testing, PID debugging and other test modes, of which automatic test mode, can customize multiple test stages, can select torque, fixed power mode, can customize multiple sets of test models.





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Custom products



Custom products

Support multi-industry non-standard applications personalized product customization.

Examples



Examples

Support multi-industry non-standard applications personalized product customization.

QUALITY BUILDS BRAND
SERVICE WINS TRUST

All sensors and instruments produced and sold by the company have been strictly tested to ensure product quality

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Konsultasi pemilihan sensor, penawaran harga, dan pemasangan di pabrik Anda.