04

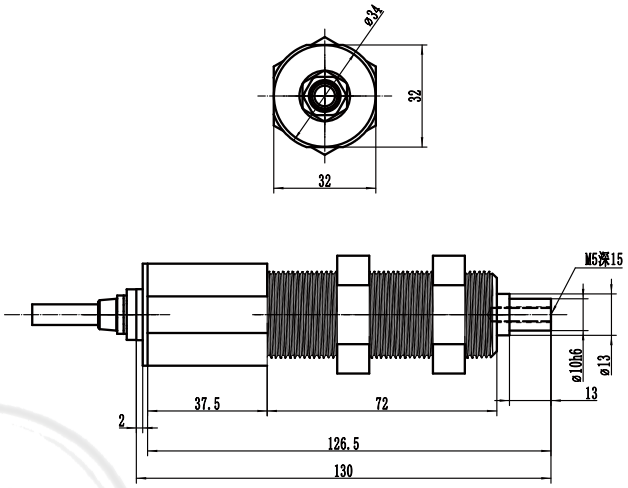
TENSION SENSOR



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.

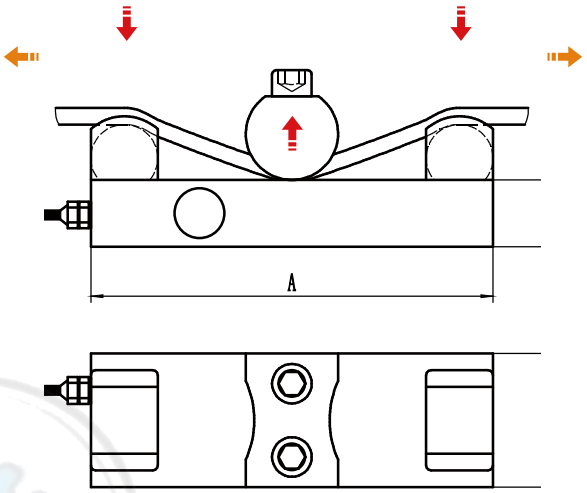
Parameters Table			
Range	0-1000N	Material quality	Alloy Steel
Output sensitivity	2.0±0.05mV/V	Impedance	350
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.2%F.S.	Service voltage	5-15v
Hysteresis	0.2%F.S.	Operating temperature range	-20-80°C
Repeatability	0.2%F.S.	Safe overload	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

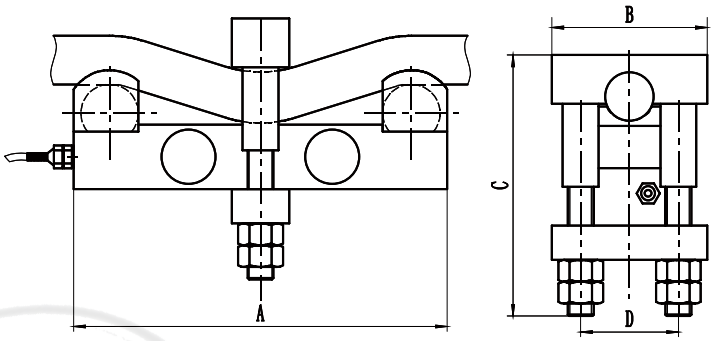
Parameters Table			
Range	1-200kN	Material quality	Alloy Steel
Output sensitivity	1.5±0.05mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15v
Hysteresis	0.5%F.S.	Operating temperature range	-20-60°C
Repeatability	0.3F.S.	Safe overload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





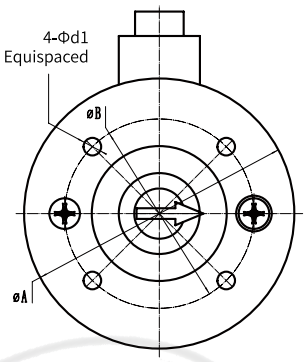
Parameters Table			
Range	0-200kN	Material quality	Alloy Steel
Output sensitivity	1.5±0.05mV/V	Impedance	350/700Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	10-15v
Hysteresis	0.5%F.S.	Operating temperature range	-20-80°C
Repeatability	0.3%F.S.	Safe 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	

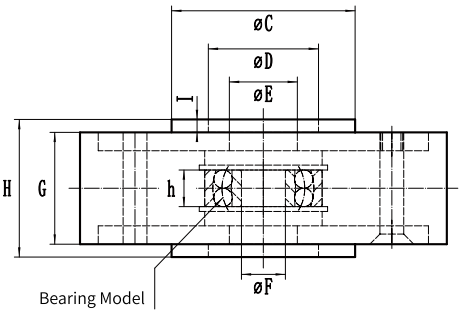
Wirerope Tension (kN)	Range (T)	Wirerope Diameter	A	B	C	D
10	1	Φ6-14	160	76	117	45
20	2	Φ10-18	160	76	117	45
50	5-10	Φ16-26	160	76	117	45
100-200kN	10T-14	Φ24-36	260	108	170	68

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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	

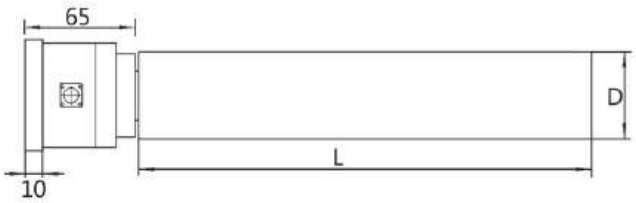
Range (kg)	A	B	C	D	E	F	G	H	J	K
10	100	60	22	17	75	6.5	90	36.5	16	3
15	105	60	22	17	75	6.5	90	36.5	16	3
25	105	60	22	17	75	6.5	90	36.5	16	3
50	105	60	22	17	75	6.5	90	36.5	16	3
75	125	70	31	25	95	6.5	100	47.5	18	4
100	125	70	31	25	95	6.5	100	47.5	18	4
150	175	100	44	35	135	8.5	125	65	23	4
300	175	100	44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

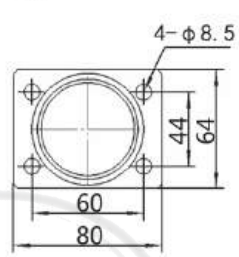
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DYZL-106 Tension sensor









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.

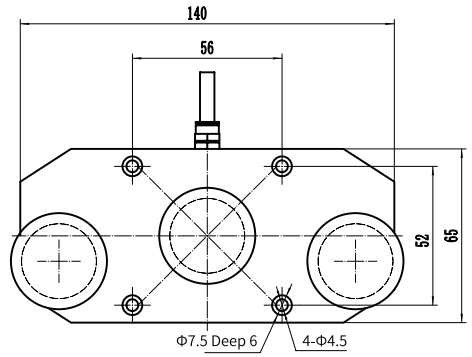
Parameters Table			
Range	20-300N	Material quality	Alufer
Output sensitivity	2.0±0.1%mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15v
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload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

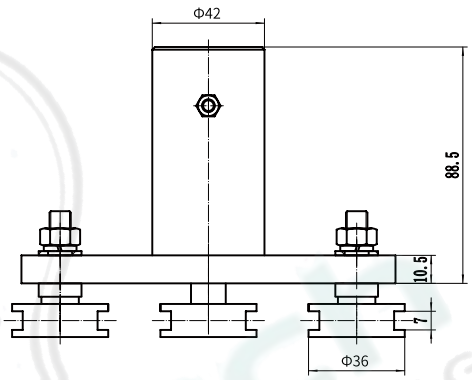
Range (N)					
20	50	75	100	200	300

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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

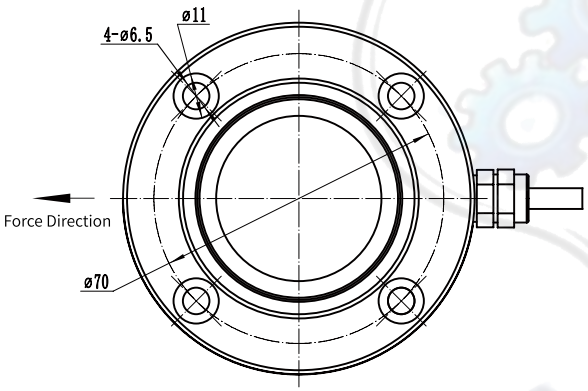
Parameters Table			
Range	0-100kg	Material quality	Stainless Steel / Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability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

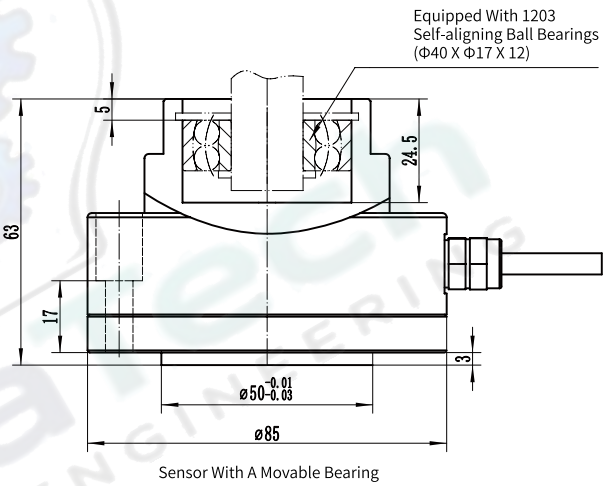
Range (kg)						
2	5	10	20	30	50	100

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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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