12

DYNAMIC TORQUE SENSOR

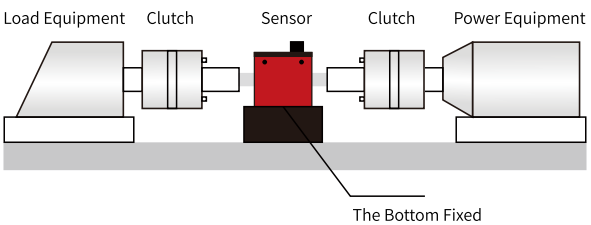


Strong anti-interference, high accuracy and good stability, small size, light weight, easy to install, can transfer static / rotation / static / dynamic torque signal.

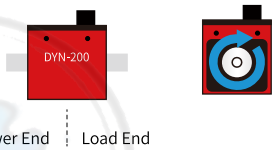
DYN-200 Dynamic torque sensor

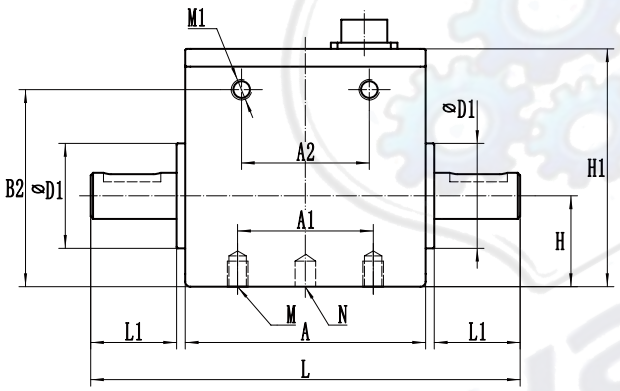


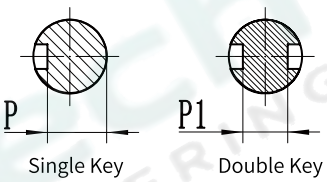
Installation Diagram

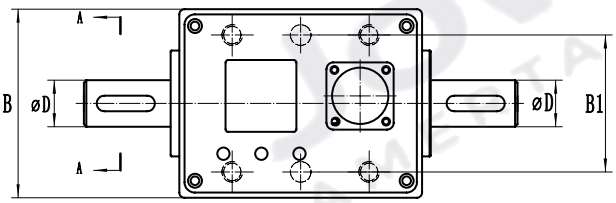


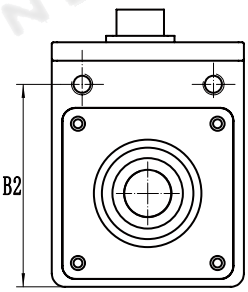
Force Diagram Of Sensor











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

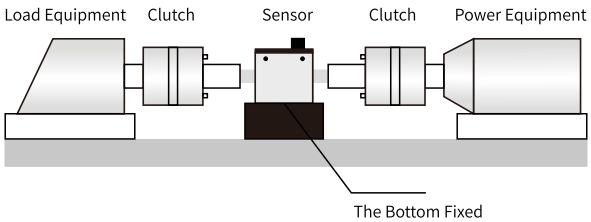
Range (N.m)	M	M1	N	Key (Width * Length)	P	P1
0.1-5NM (new)	4-M3 Depth 6	/	/	Single Key 3 * 15	8.2	/
0.1-5NM (old)	4-M8 Depth 10	8-M8 Depth 6	2-Φ8H7 Depth 10	Single Key 3 * 10	8.2	/
10. 20, 30, 50, 100	4-M8 Depth 10	8-M8 Depth 6	2-Φ8H7 Depth 10	Single Key 6 * 22	14.5	/
200, 300	4-M8 Depth 10	8-M8 Depth 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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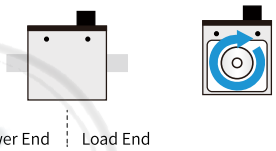
DYN-200 Pro Dynamic torque sensor

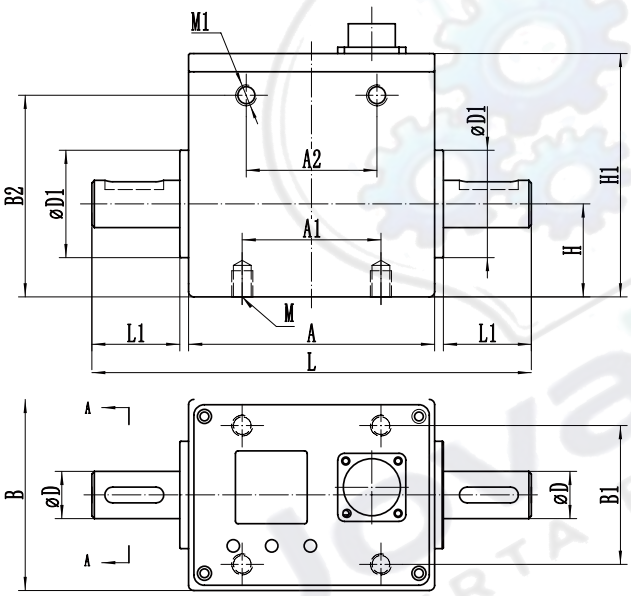


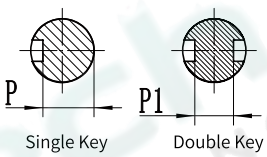
Installation Diagram

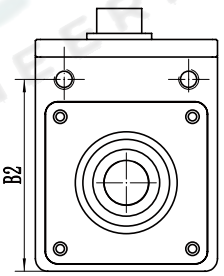


Force Diagram Of Sensor









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°)		

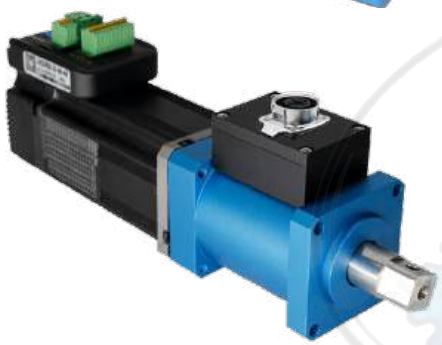
Range (N.m)	Φdh7	A	B	L	L1	H	H1	A1	A2	B1	B2
0.1-5	Φ10	94	73	148	23.6	35.5	93	53	50	53	77
10-100	Φ18	94	73	168	33.6	35.5	93	53	50	53	77
200-300	Φ28	94	73	208	53.5	35.5	93	53	50	53	77
500-800	Φ38	100	90	238	65.5	44	107.5	60	60	60	91
1000-5000	Φ60	100	120	258	75.5	60	138.5	60	70	75	122.5
10000-20000	Φ98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

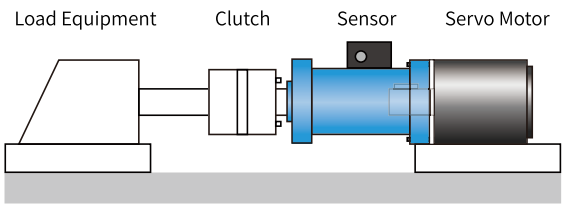
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DYN-201D Dynamic torque sensor

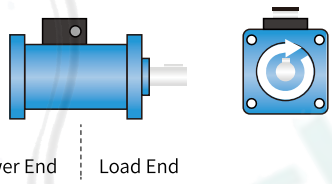


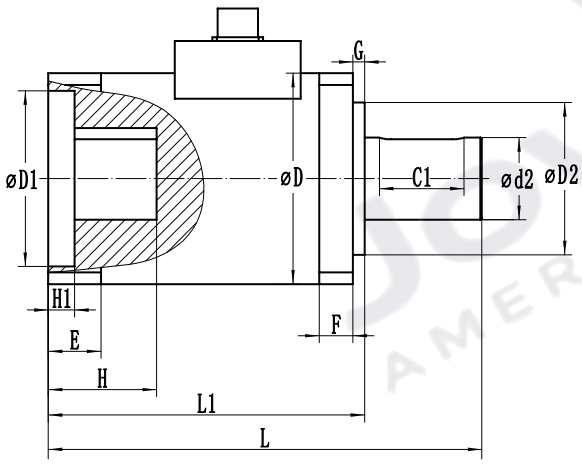


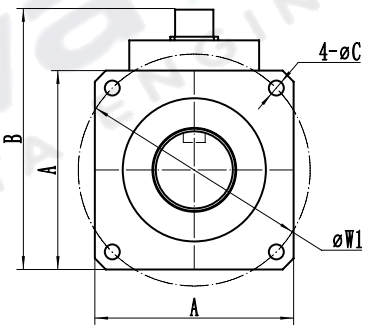
Installation Diagram

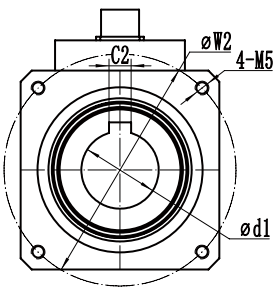


Force Diagram Of Sensor









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

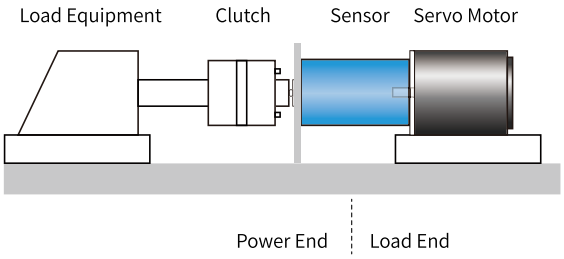
Range (N.m)	E	F	G	H	H1	K	L	L1	M	W1	W2
0.1-100	62	73	5.5	5*25	5*28	60	50	14	14	42	70
	62	73	5.5	6*22	5*28	60	50	16	18	42	70
200-500	72	94. 5	5.5	8*28	8*28	72	60	28	28	52	84

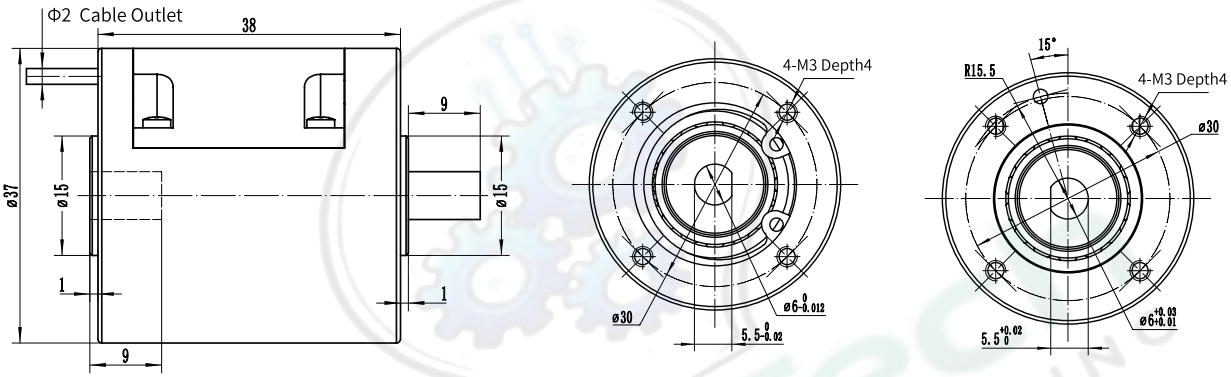
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DYN-202 Dynamic torque sensor



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.

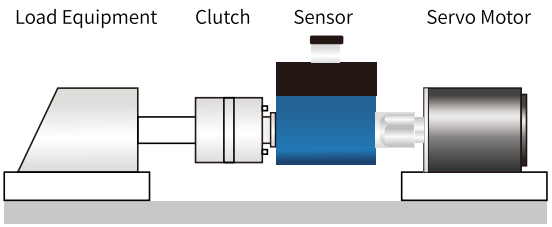
Parameters Table			
Range	0.1-5N.m	Material quality	Stainless Steel (Shaft Body)
Speed Range	≤3000Rpm	Annual Stability	0.3%/Year
Torque Signal	≤2.0mV/V	Impedance	＞350Ω
Power Supply Voltage	24V DC 0.2A	Insulation resistance	2KMΩ
Need Point Output	±0.2%F.S.	Service voltage	5-15V
Nolinear	0.2%F.S.	Operating 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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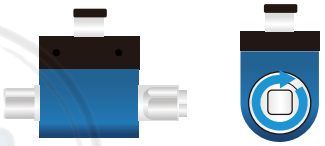
DYN-203 Dynamic torque sensor

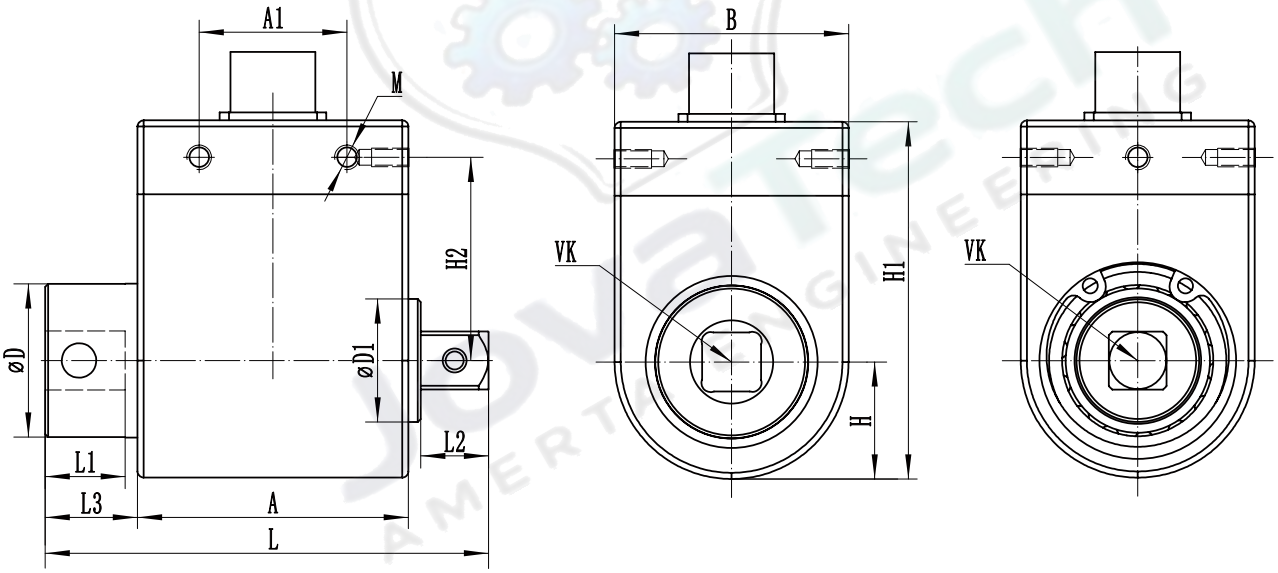


Installation Diagram



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°)		

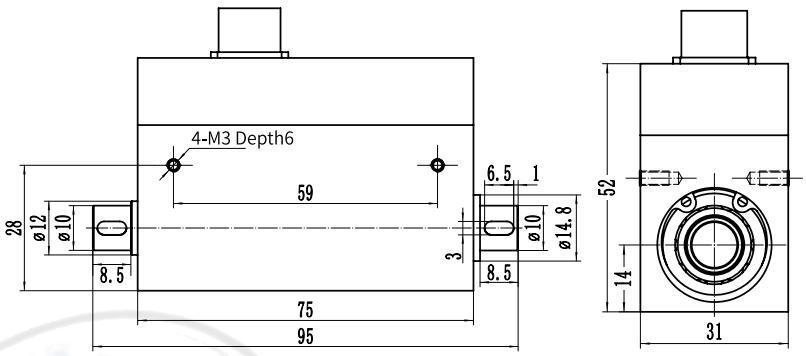
Range (N.m)	VK	A	B	L	L1	L2	L3	H
0.1-5	1/4	49	32	68	10.5	7.5	10.5	16
10-50	3/8	44	38	72	13	11	15	19
100	1/2	44	38	80	17	15	19	19
200-300	3/4	62	64	113	26	23	26	32
500-1000	1/1	72	80	131	31	28	29	40
3000	3/2	80	115	170	42	40	48	57.5

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.

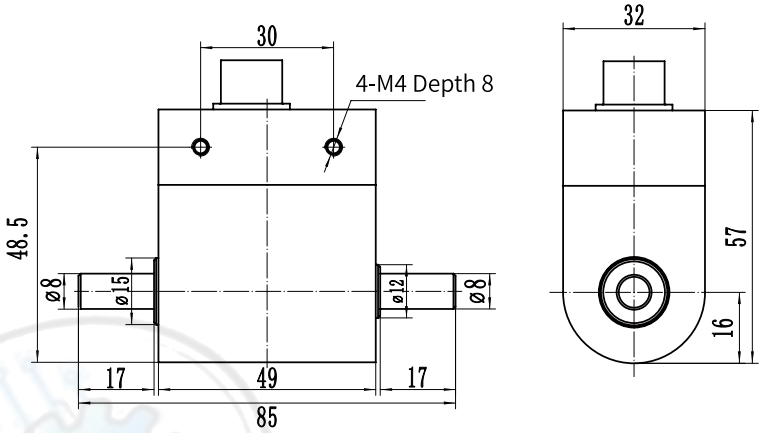
Parameters Table			
Range	0-5N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	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.

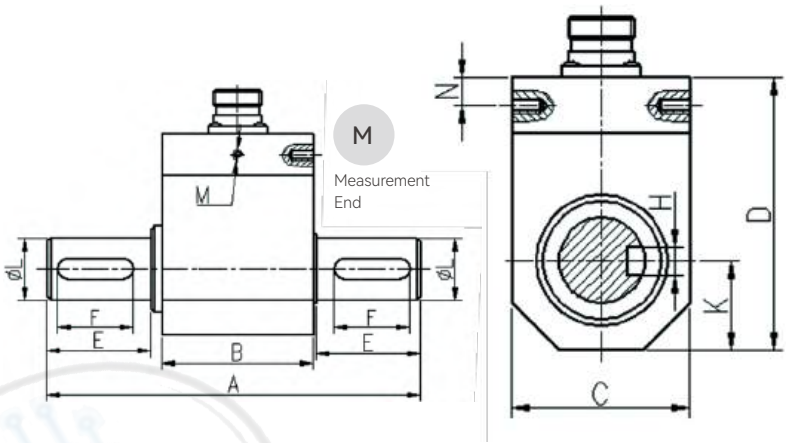
Parameters Table			
Range	0-5N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	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.

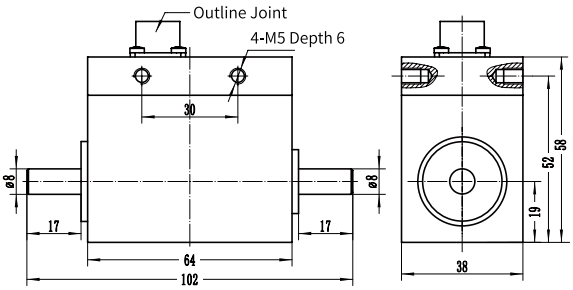
Parameters Table			
Range	0-800N.m	Inertia Moment	0.38kgcm
Speed Range	≤3000rpm	Natural Frequency Of Rotor Vibration	19.4kHz
Speed Signal	<2.0mv/V	Torsional Constant	3.85x10Nm/rad
Zero point output	±0.5%F.S.	Material quality	stainless steel
Nolinear	0.1%F.S.	Annual Stability	0.3% / year
Hysteresis	0.5%F.S.	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

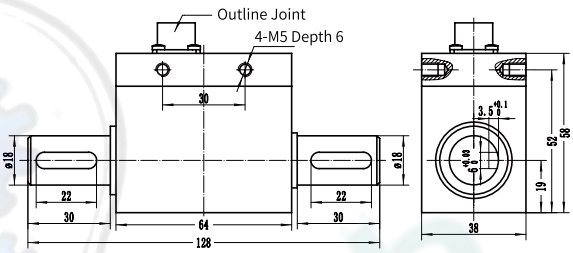
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DYN-207 Dynamic torque sensor





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°)		

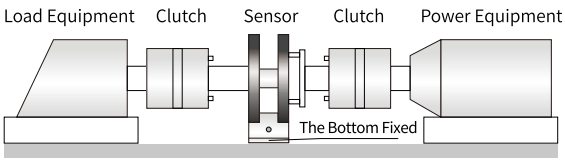
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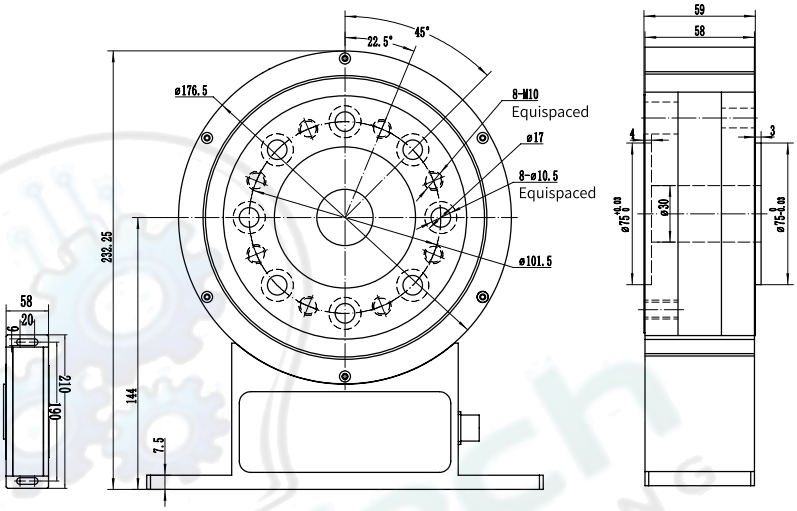
DYN-208 Dynamic torque sensor





Installation Diagram





Product Reviews

Characteristic

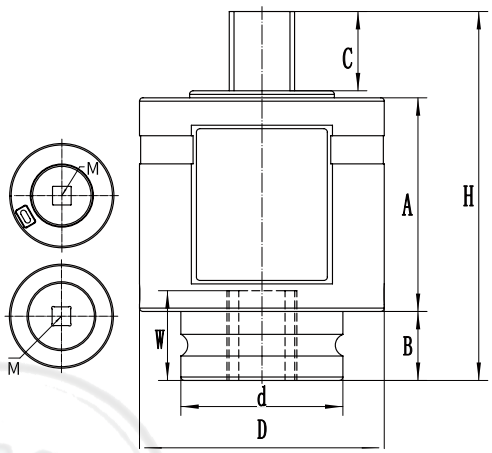
Strong interference, high accuracy and good stability, output signal digital function, small size, light weight, easy to install, energy and signal contact transmission function, transfer signal and the rotation, speed and steering, do not need to repeatedly zero can continuously transfer positive and 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	

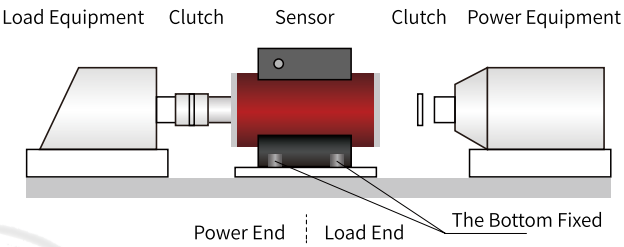
Range (N.m)	M	A	B	C	W	H	d	D
300-500	1/2(12.7*12.7)	62	20	23	26	107	47	71
600-1200	3/4(19.1*19.1)	62	20	23	26	107	47	71
1500	1/1(25.4*25.4)	62	30	28	31	122	52	76
5000	3/2(38.1*38.1)	62	40	39	40	143	75	99
10000-30000	5/2(63.5*63.5)	62	66	55	56	187	128	154

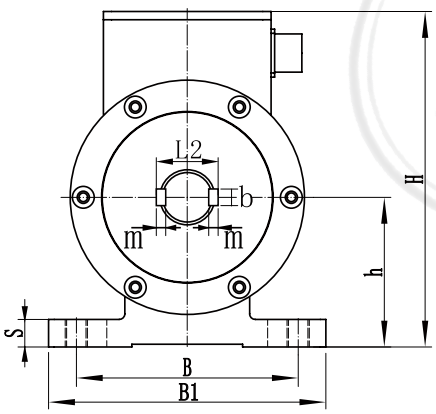
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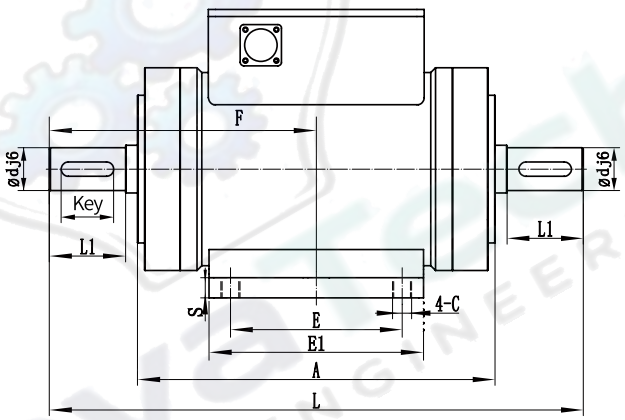
DYN-210 Dynamic torque sensor

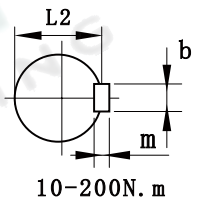


Installation Diagram









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°)		

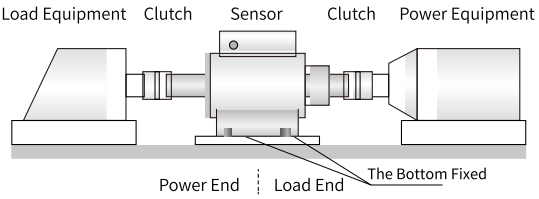
Range (N.M)	Φdj6	ΦD	A	L	L1	H	h	E	E1	B	B1	C	F	S	Standard speed	Type C key
10/20/30/40 /50/100	Φ18	Φ85	150	224	32	123	58	72	95	62	90	6.5	112	10	6000	6*22*6*1
200/300	Φ28	Φ95	152	242	42	133	63	72	95	62	90	6.5	121	10	5000	8*30*7*1
500/700	Φ38	Φ105	154	272	56	144	69	72	95	62	90	6.5	136	10	4000	10*45*8*2
1000	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

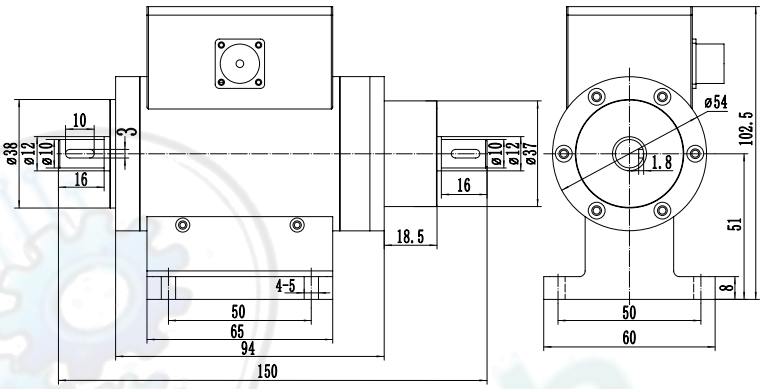
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DYN-210 Mini Dynamic torque sensor



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

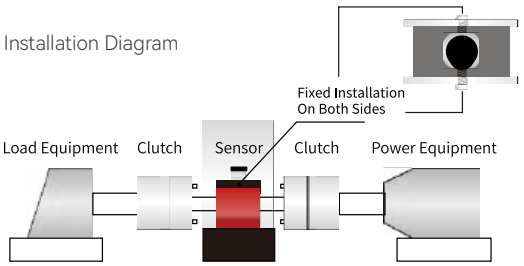
Range (N.m)							
0.1	0.2	0.5	1	2	3	5	10

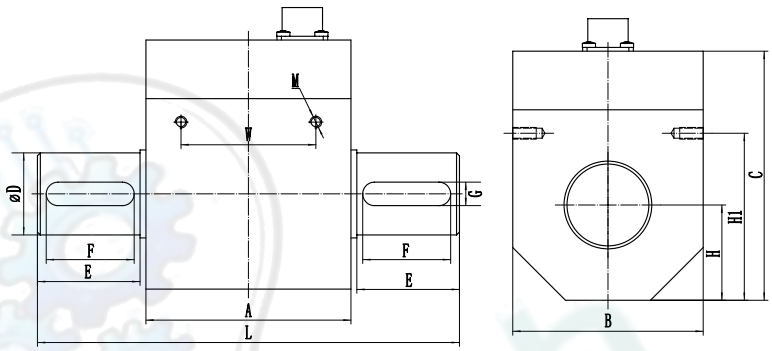
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DYN-212 Dynamic torque sensor



Installation Diagram





Product Reviews

Characteristic

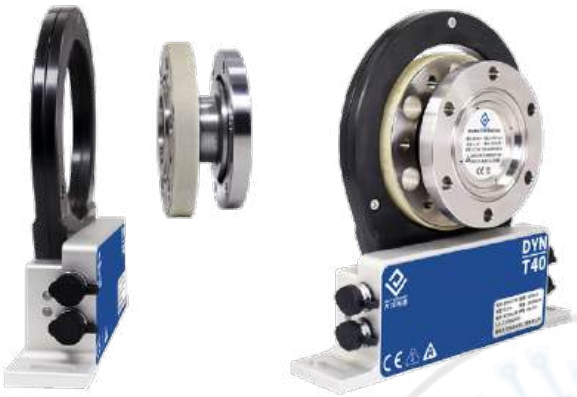
Strong interference, high accuracy and good stability, output signal digital function, small size, light weight, easy to install, energy and signal contact transmission function, transfer signal and the rotation, speed and steering, do not need to repeatedly zero can continuously transfer positive and 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

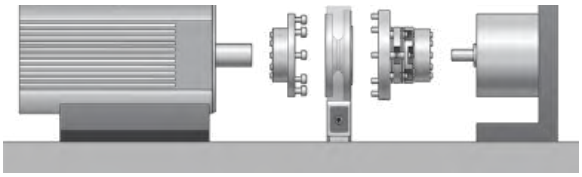
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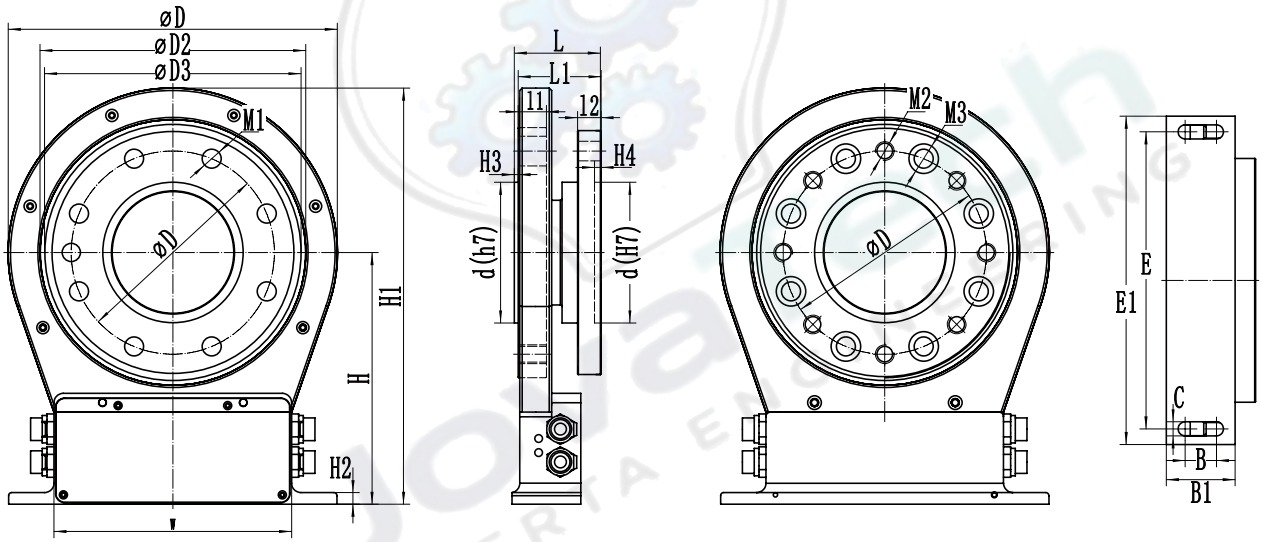
DYN-T40 Dynamic torque sensor



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

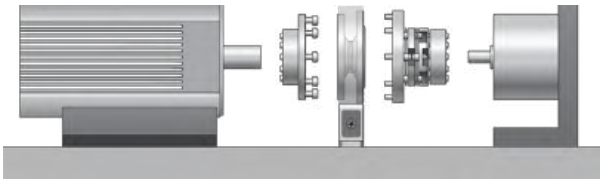
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DYN-502 Dynamic torque sensor



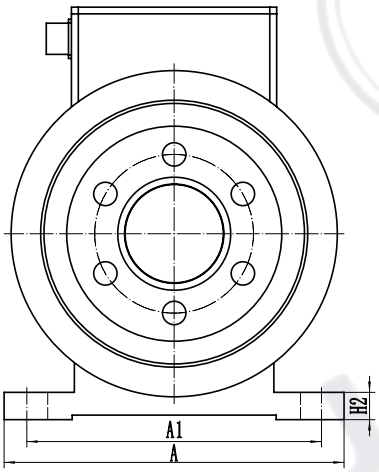
Installation Diagram

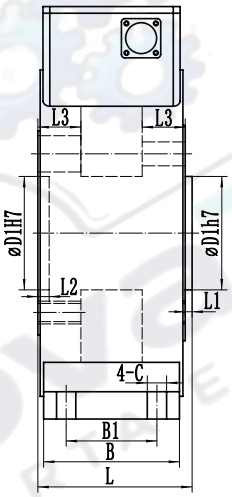
Use The Flange + Coupling



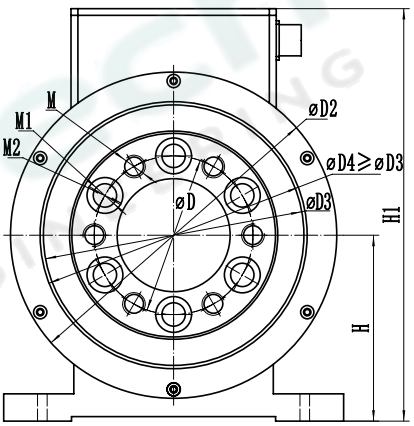


Front





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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