11

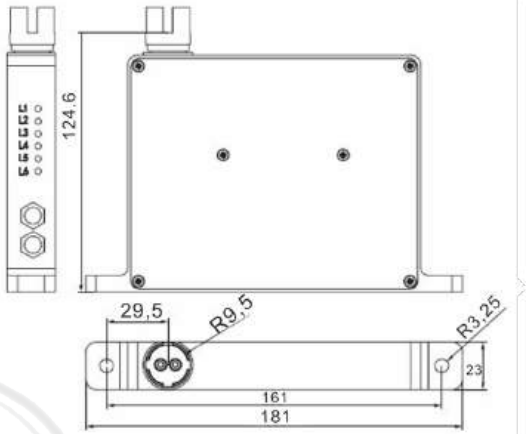
STRAIN TORQUE SENSOR

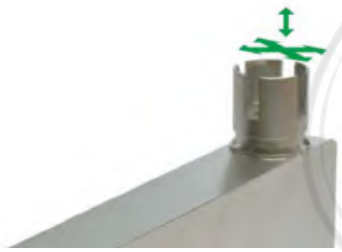


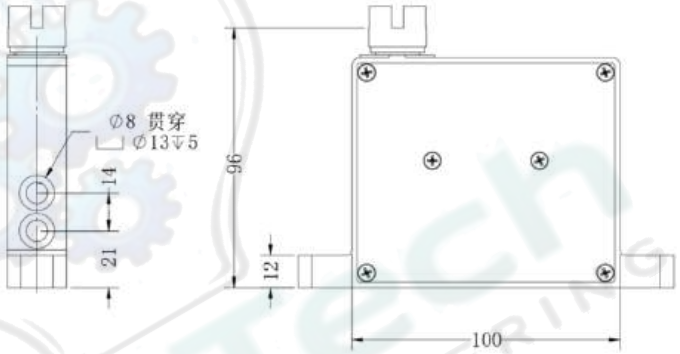
Strain torque sensor is a sensor used to measure the torque of a stationary or slowly rotating object. A flange-mounted sensor is connected to a load transfer device that can output voltage or current signals.

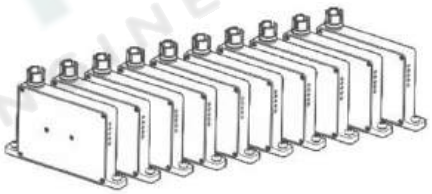
DYZY-001 Strain torque sensor











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.

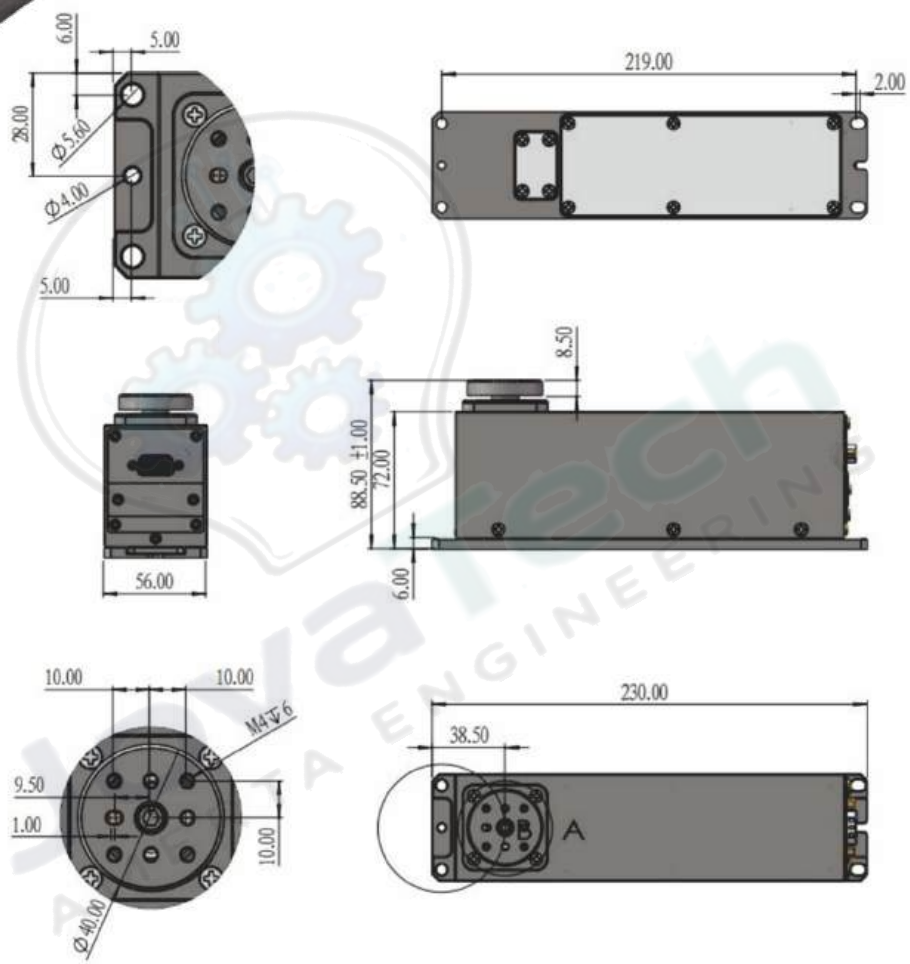
Parameters Table			
Power Supply	DC9~24V (refer to the nameplate)	Set address	1-239
Interface	Standard RS485 interface	Product resolution	600000
Broadcast address	255		

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

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.

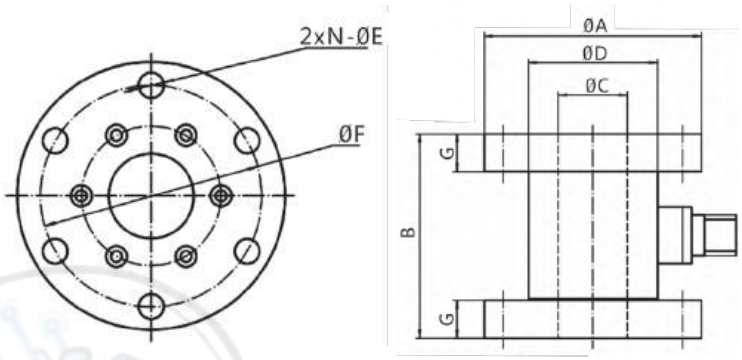
Application Area

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

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

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

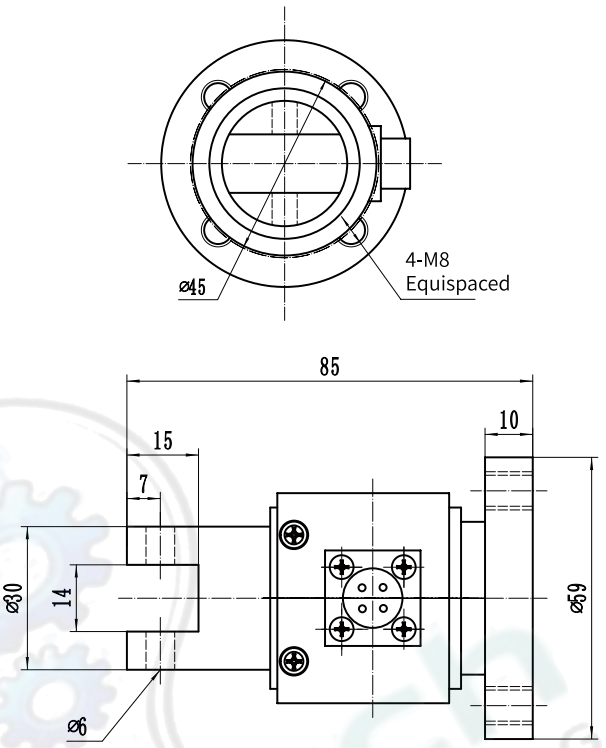
Parameters Table			
Range	0-10000N.m	Material quality	Alloy Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350/700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80℃
Repeatability	0.1%F.S.	Safe 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

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

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

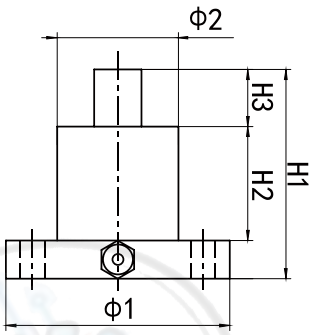
- Electric Screw Driver
- Torque Spanner
- Wind Turbines, etc

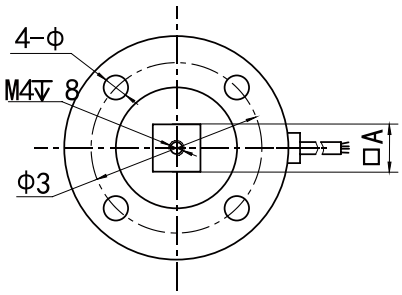
Parameters Table			
Range	0-200N.m	Material quality	Alloy Steel
Output sensitivity	2.0±10%mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe overload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

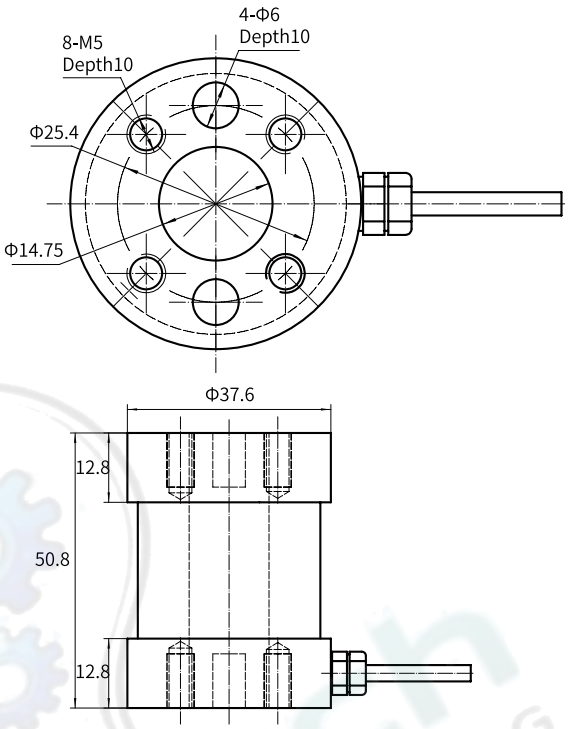
Parameters Table			
Range	0-3000N.m	Material quality	Alloy Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350/700Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.3%F.S.	Service voltage	5-15V
Hysteresis	0.1%F.S.	Operating temperature range	-20-80°C
Repeatability	0.1%F.S.	Safe 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

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

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

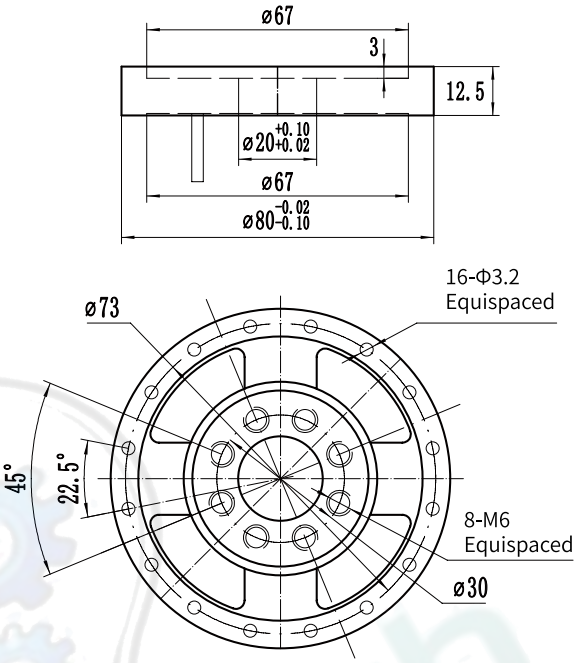
Parameters Table			
Range	0-150N.m	Material quality	Aluminium Alloy/Alloy Steel
Output sensitivity	2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.05%F.S.	Service voltage	5-15V
Hysteresis	0.05%F.S.	Operating temperature range	-20-80°C
Repeatability	0.05%F.S.	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

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

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.

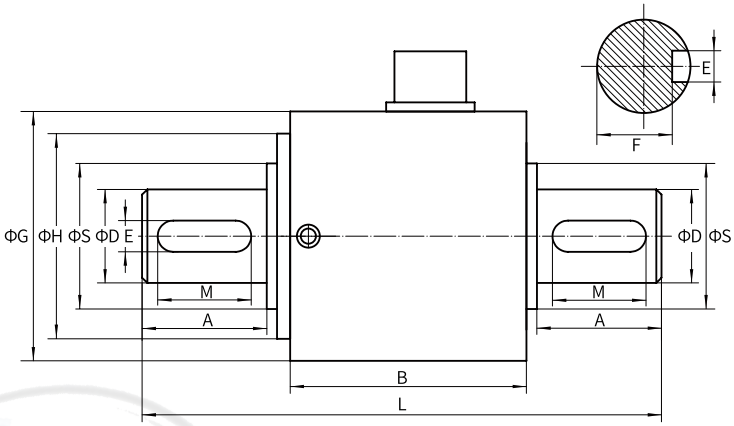
Parameters Table			
Range	0-200N.m	Material quality	Aluminium Alloy/Alloy Steel
Output sensitivity	1.5±0.5%	Impedance	700±5Ω
Zero point output	±0.5%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	±0.5%F.S.	Service voltage	5-15V
Hysteresis	±0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	±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

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

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.

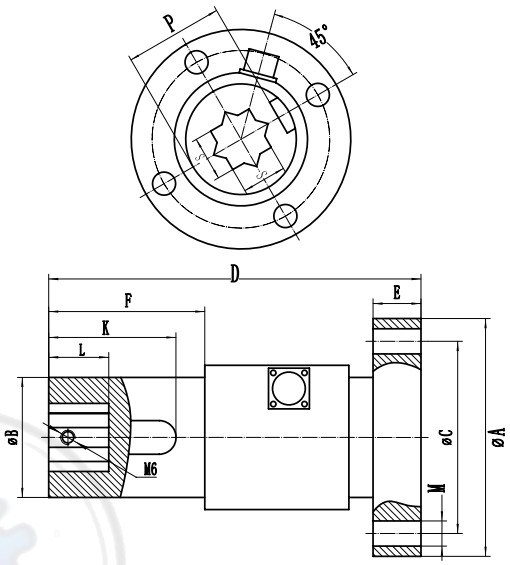
Parameters Table			
Range	0.1-5000N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350±5/700±5 Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	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

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

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

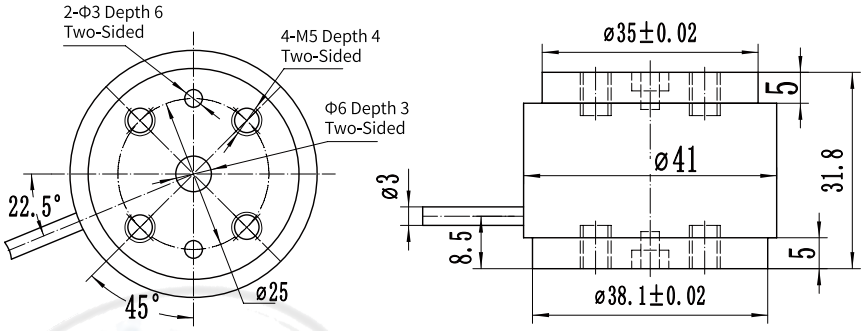
Range	0-1000N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350±5/700±5 Ω
Zero point output	±1%F.S.	Insulation resistance	≥5000MΩ/100VDC
Nolinear	0.1%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-20-80℃
Repeatability	0.3%F.S.	Safe 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	/

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

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

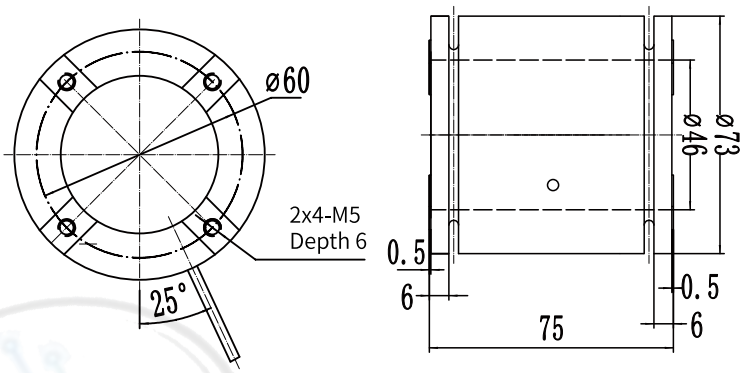
- For static non-continuous rotation, can be non-standard customization, anti-interference signal is stable.
- Widely used in torque wrench, electric batch, electric screwdriver, tool maintenance static load torque and other test systems.

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	

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

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

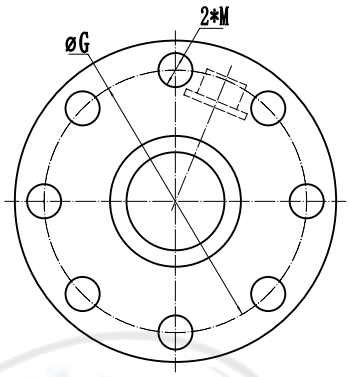
- For static non-continuous rotation, can be non-standard customization, anti-interference signal is stable.
- Widely used in torque wrench, electric batch, electric screwdriver, tool maintenance static load torque and other test systems.

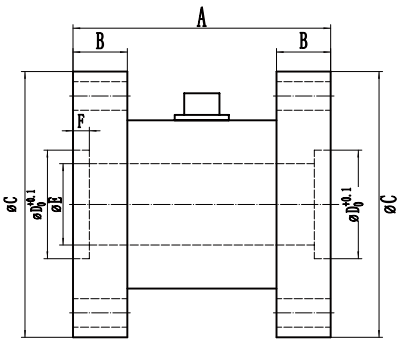
Parameters Table			
Range	0-200N.m	Material quality	Alloy Steel/Stainless Steel
Output sensitivity	1.0-2.0mV/V	Impedance	350Ω
Zero point output	±2%F.S.	Insulation resistance	≥2000MΩ/100VDC
Nolinear	0.5%F.S.	Service voltage	5-15V
Hysteresis	0.5%F.S.	Operating temperature range	-10-50℃
Repeatability	0.2%F.S.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

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

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

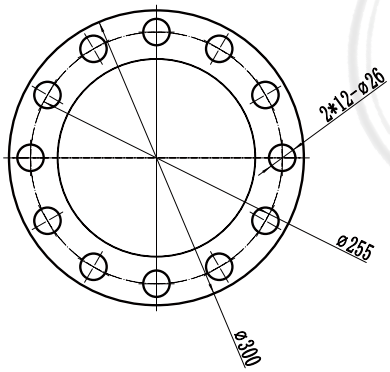
PT. Jovatech Amerta Engineering · WhatsApp 0812-8021-1494 · info@jovatech.co.id · jovatech.co.id

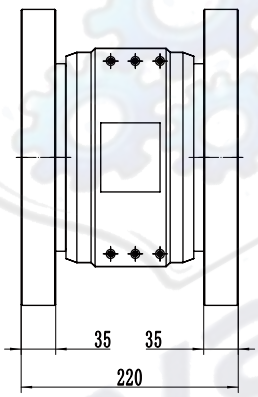
Tilt Angle Detection System

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.

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

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

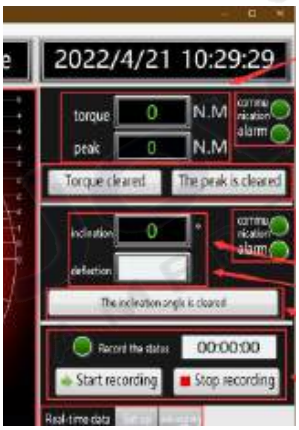
All devices are waterproof above IP66.

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.

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