

Dual flanges torque transducer



Features

Capacity 5Nm-10000Nm

Static torsion measure

Rational outputs

Nickel plated alloy steel

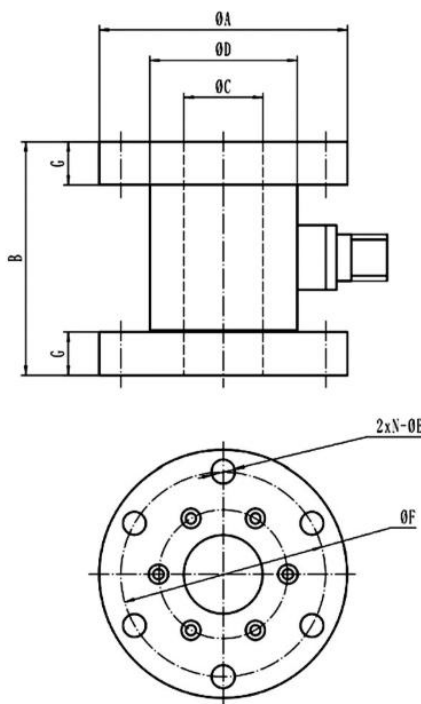
Optional features

Hermetically sealed available

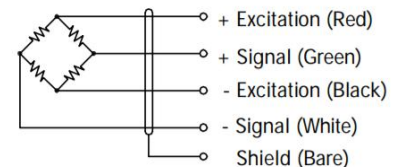
DESCRIPTION

Flange to flange torque sensor ZMFNJ is a non-rotating type torque transducer that converts a torsional mechanical input into an electrical output signal. ZMFNJ can be used in both clockwise and counterclockwise direction ranging from 5Nm up to 10000Nm. The measuring range and dual flange size can be customized to meet customer's requirements.

DIMENSIONS (mm)



	A	B	C	D	E	F	N	G
5-50NM	69	65	/	41	6.5	57	6	12
100-300NM	69	65	22	41	6.5	57	6	12
500-1000NM	98	80	35	60	8.5	80	8	12
2000-5000NM	125	96	42	79	13	105	8	15
10000NM	160	120	60	95	17	130	8	30



SPECIFICATIONS

PARAMETER	VALUE	UNIT
Standard capacities (E _{max})	5-10000	Nm
Rated output-R.O.	2.0	mV/V
Zero balance	1	±% of rated output
Non linearity	0.2	±% of rated output
Hysteresis	0.1	±% of rated output
Non-repeatability	0.05	±% of rated output
Creep error (30 minutes)	0.03	±% of rated output
Zero return (30 minutes)	0.03	±% of rated output
Temperature effect on min. dead load output	0.0026	±% of rated output/°C
Temperature effect on sensitivity	0.0015	±% of rated output/°C
Compensated temperature range	-10 to +40	°C
Operating temperature range	-20 to +60	°C
Safe overload	150	% of R.C
Ultimate overload	200	% of R.C
Excitation, recommended	10	Vdc
Excitation, maximum	15	Vdc
Input resistance	380±10	Ohms
Output resistance	350±3	Ohms
Insulation resistance	5000	Mega-Ohms
Material	Alloy steel	
Protection class	IP66	

All specifications listed subject to change without notice.