Torque transducer

Features

Capacity 1Nm-500Nm

Static torsion measure

Rational outputs

Nickel plated alloy steel

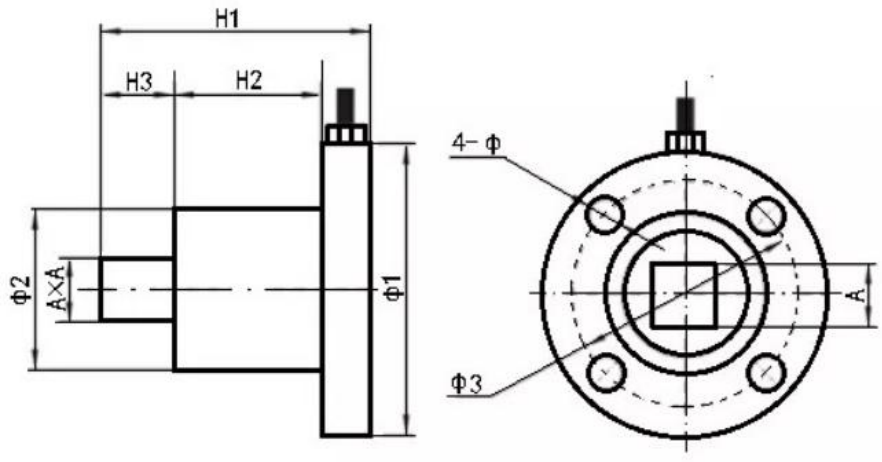
Optional features

Hermetically sealed available

DESCRIPTION

Flange to square torque sensor ZMNJF is a non-rotating type torque transducer that converts a torsional mechanical input into an electrical output signal. ZMNJF can be used in both clockwise and counterclockwise direction ranging from 1Nm up to 500Nm. The measuring range and flange/square size can be customized to meet customer's requirements.

DIMENSIONS (mm)



Wiring diagram

+ Excitation	Red
- Excitation	Black
+ Signal	Green
- Signal	White

	A	H1	H2	H3	Φ1	Φ2	Φ3	Φ
1-200Nm	12.7	55	30	15	59	32	45	6.5
500Nm	25.4	75	40	24	68	34	55	8.5

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SPECIFICATIONS

PARAMETER	VALUE	UNIT
Standard capacities (Emax)	1, 2, 5, 10, 20, 50, 100, 200, 500	Nm
Rated output-R.O.	1.0 -2.0	mV/V
Zero balance	1	±% of rated output
Non linearity	0.1	±% of rated output
Hysteresis	0.05	±% of rated output
Non-repeatability	0.03	±% 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/℃
Temperature effect on sensitivity	0.0015	±% of rated output/℃
Compensated temperature range	-10 to +40	℃
Operating temperature range	-20 to +60	℃
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.