Static torque transducer

Features

Capacity 1000Nm-5000Nm

Static torsion measure

Rational outputs

Nickel plated alloy steel

Optional features

Hermetically sealed available

DESCRIPTION

The ZMNJF2 is a non-rotating type torque transducer that converts a torsional mechanical input into an electrical output signal. The ZMNJF2 can be used in both clockwise and counterclockwise direction ranging from 1000Nm up to 5000Nm. The sensor is used in static and non-rotating torsion measure applications.

DIMENSIONS (mm)

+ Excitation (Red)
+ Signal (Green)
- Excitation (Black)
- Signal (White)
Shield (Bare)
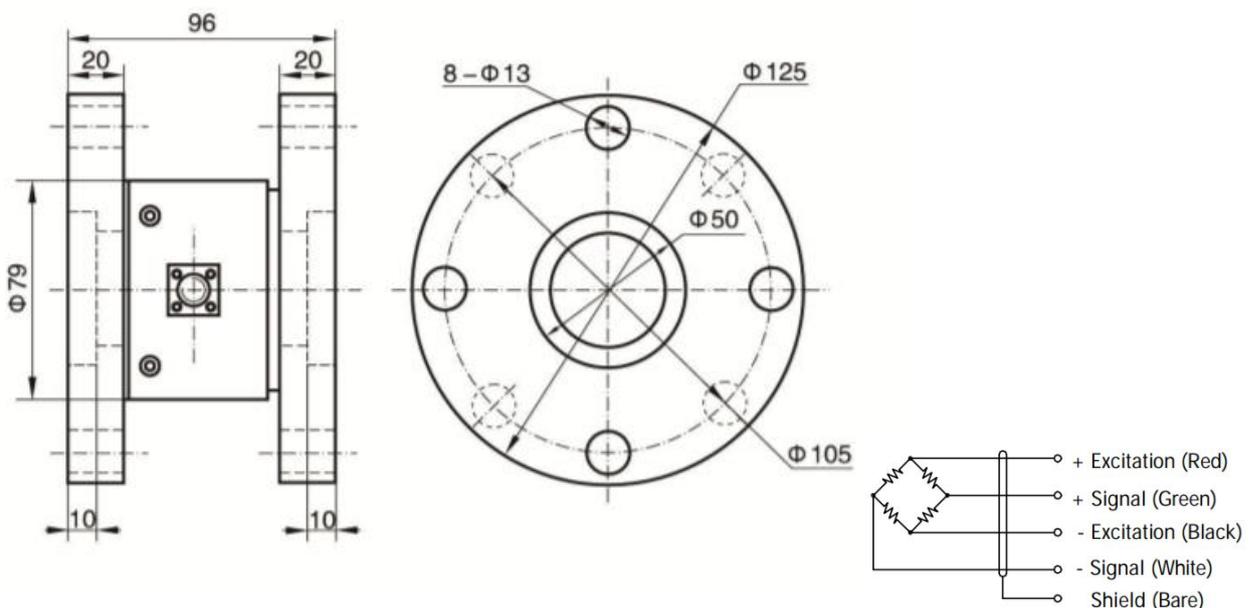
SPECIFICATIONS

PARAMETER	VALUE	UNIT
Standard capacities (Emax)	1000-5000	Nm
Rated output-R.O.	1.0-2.0	mV/V
Zero balance	1	±% of rated output
Non linearity	0.2	±% of rated output
Hysteresis	0.2	±% of rated output
Non-repeatability	0.1	±% 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	710±10	Ohms
Output resistance	700±3	Ohms
Insulation resistance	5000	Mega-Ohms
Material	Alloy steel	
Protection class	IP66	

All specifications listed subject to change without notice.

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