

Miniature Parallel Shaft Static **TORQUE SENSOR**

YDNS
Series



- Torque Ranges from 0-0.2Nm up to 0-1000Nm
- 0.1% Accuracy Class
- Suitable for Low Torque Measurements
- Static or Semi-Rotary Applications
- Very Compact Size
- 3 YEAR WARRANTY

Options Available

Customer-specific measuring ranges

Supplied With Any Instrumentation and Calibrated as a Complete System with Traceable Certificate

DESCRIPTION

The YDNS series of torque sensors are a miniature parallel shaft design suited to applications where static or semi-rotary torque (less than 1 revolution) is to be measured. They offer superb 0.1% accuracy performance coupled with minimal space requirements through their very compact dimensions.

The YDNS series can be further complimented by any of our range of instrumentation to offer a complete system, supplied and calibrated from a single supplier.

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

3 MERCURY HOUSE - CALLEVA PARK - ALDERMASTON - BERKSHIRE - RG7 8PN - UK

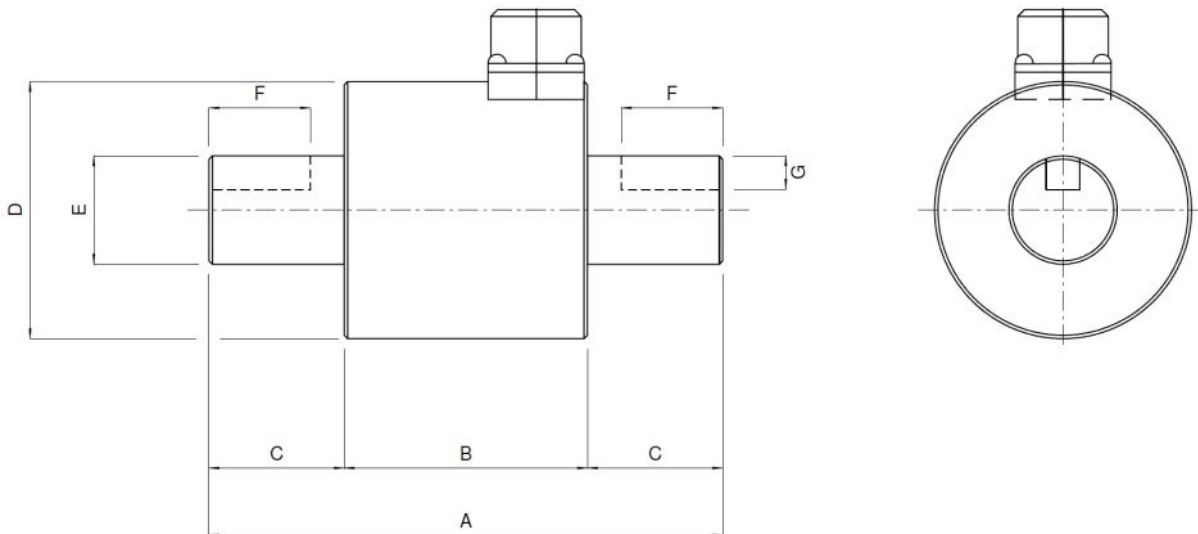
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SPECIFICATION

CHARACTERISTICS	YDNS	UNITS
Torque Ranges:	0-0.2, 0-0.5, 0-1, 0-2, 0-5, 0-10, 0-20, 0-50, 0-100, 0-200, 0-500, 0-1000	Nm
Rated Output (FSO):	1.3	mV/V
Excitation Voltage:	10	Vdc
Safe Overload:	150	% FSO
Non-Linearity:	0.1	±% FSO
Repeatability:	0.08	±% FSO
Hysteresis:	0.1	% FSO
Temperature Range		
Compensated:	-20 to +70	°C
Operating:	-10 to +60	°C
Temperature Effect on zero:	0.005	±%FSO/°C
Temperature Effect on Output	0.009	±%FSO/°C
Terminal Resistance (Input/Output)	350±3.5	Ohms
Insulation Resistance:e	2000	Megaohms at 500VDC
Environmental Protection:	IP50	
Cable:	3m screened, Ø4 mm	

All dimensions in mm



CAPACITY (Nm)	A	B	C	ØD	ØE	F	G
0-0.2 to 0-1	76	36	20	38	12	15	1
0-2, 0-5	76	36	20	38	12	15	1
0-10	76	36	20	38	16	15	5x5
0-20, 0-50	81	41	20	52	22	15	6X6
0-100, 0-200	103	43	30	62	30	22	8X7
0-500, 0-1000	125	45	40	84	56	30	14X9

