### Flange type rotary

# **TORQUE SENSOR**

## YDFF Series



- Torque Ranges 50Nm to 5kNm
- 0.3% Accuracy Class
- Slip ring technology
- Flange coupling
- **■** up to 5000rpm
- 3 YEAR WARRANTY

#### **Options Available**

Mounting pedestal

Customer-specific measuring ranges

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

#### **DESCRIPTION**

The YDFF torque sensors are a slip ring rotating transducers and have flange drives at both ends. They feature female thread holes on the flange to provide easy installation and requires minimal mounting space due to their compact size.

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

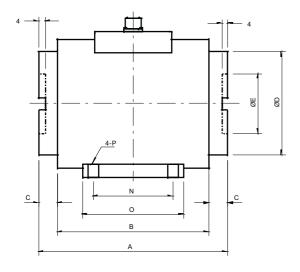
Transducer Specialists...

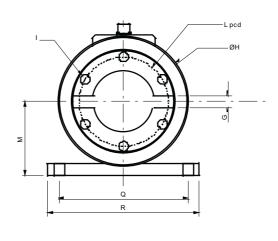
## APPLIED MEASUREMENTS LIMITED



## **SPECIFICATION**

CHARACTERISTICS	YDFF	UNITS		
Torque Ranges:	50 - 5	Nm- kNm		
Rated Output (FSO):	1.5	MV/V		
Excitation Voltage:	10	VDC		
Safe Overload:	150	% FSO		
Non-Linearity:	0.3	±% FSO		
Repeatibility:	0.2	±% FSO		
Hysteresis:	0.3	±% FSO		
Temperature Range Operating:	-20 to -70	°C		
Compensated:	-10 to -60	°C		
Temperature Effect on Zero:	0.01	±%FSO/°C		
Temperature Effect on Output:	0.008	±%FSO/°C		
Terminal Resistance (Input/Output):	350	ohms		
Insulation Resistance:	300	megohms		
Environmental Protection:	IP50			
Cable:	3m screened Ø5mm			
RPM Output:	N/A			





CAPACITY	Α	В	С	ØD	ØE	G	ØН	М	N	0	ØР	Q	R	L	I	RPM
50-200Nm	119	95	12	65	38	8	81	46.0	50	64	6.5	81	95	56	8-M6x15DP	5.000
500Nm	125	99	13	76	40	10	88	49.5	50	64	6.5	88	102	60	8-M6x15DP	4.000
1kNm	122	96	13	86	52	16	100	58.0	50	64	8.5	100	118	68	8-M8x15DP	3.000
2kNm	141	105	18	102	60	16	116	66.0	50	68	8.5	116	134	85	8-M8x15DP	3.000
3kNm	141	105	18	102	60	16	116	66.0	50	68	8.5	116	134	85	8-M8x15DP	2.000
5kNM	141	105	18	107	70	20	128	74.0	56	74	8.5	128	146	91	8-M8x15DP	2.000

