

Socket Wrench

# TORQUE SENSOR

YDSS  
Series



- Torque Ranges 0.1Nm to 300Nm
- 0.3% Accuracy Class
- Suitable for high speed rotary applications up to 5000rpm
- Square drive
- 3 YEAR WARRANTY

#### Options Available

Customer-specific measuring ranges

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

## DESCRIPTION

The YDSS sensors are designed for use in fast accurate measurement of bolt or nut tightening torques. They feature high accuracy and can also be used to check calibrations of mechanical torque wrenches.

The YDS operates in both directions so tightening and break away torque can be measured.

The YDSS 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

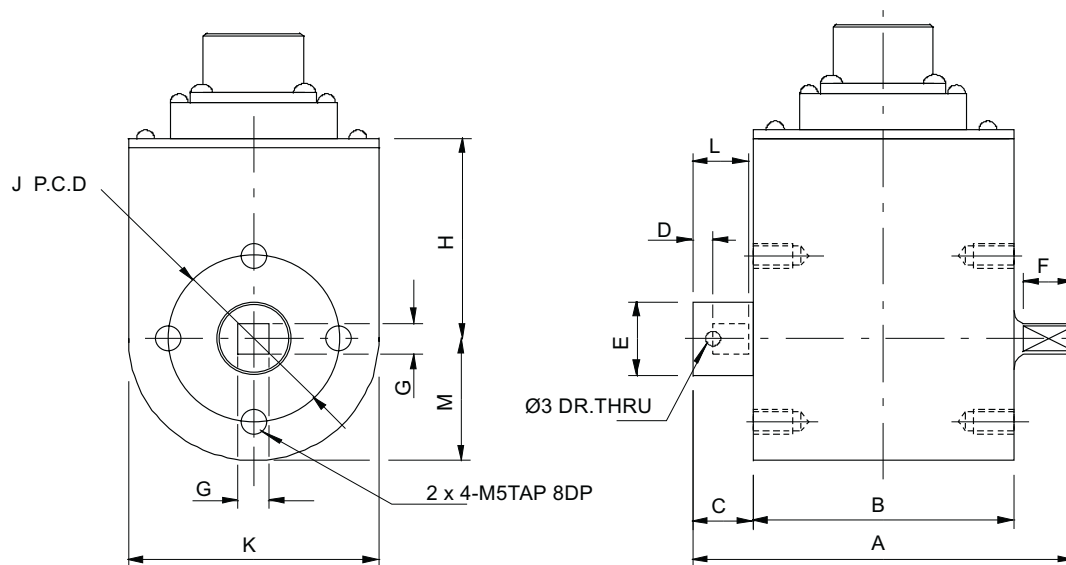
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# SPECIFICATION

CHARACTERISTICS	YDSS	UNITS
<b>Torque Ranges:</b>	<b>0.2 - 300</b>	<b>Nm</b>
<b>Rated Output (FSO):</b>	<b>1.3</b>	<b>mV/V</b>
<b>Excitation Voltage:</b>	<b>10</b>	<b>VDC</b>
<b>Safe Overload:</b>	<b>150</b>	<b>% FSO</b>
<b>Non-Linearity:</b>	<b>0.3</b>	<b>±% FSO</b>
<b>Repeatability:</b>	<b>0.3</b>	<b>±% FSO</b>
<b>Hysteresis:</b>	<b>0.3</b>	<b>±% FSO</b>
<b>Temperature Range Operating:</b>	<b>-20 to -70</b>	<b>°C</b>
<b>Compensated:</b>	<b>-10 to -60</b>	<b>°C</b>
<b>Temperature Effect on Zero:</b>	<b>0.005</b>	<b>±%FSO/°C</b>
<b>Temperature Effect on Output:</b>	<b>0.01</b>	<b>±%FSO/°C</b>
<b>Terminal Resistance (Input/Output):</b>	<b>350±3.5</b>	<b>ohms</b>
<b>Insulation Resistance:</b>	<b>300</b>	<b>megohms</b>
<b>Environmental Protection:</b>	<b>IP50</b>	
<b>Cable</b>	<b>3m screened Ø4 mm</b>	



CAPACITY	SOCKET SIZE	A	B	C	D	ØE	F	G	M	K	L	ØJ	H	RPM
0.2-0.10Nm	¼"	76	52	12	4	15	10	6.35	25	50	11	34	41	5.000
2-5Nm	3/8"	82	56	12	4	15	12.5	9.53	25	50	13	34	41	5.000
10-30Nm	½"	96	58.5	19.5	7	20	16	12.70	31	62	17	44	42	5.000
50-100Nm	¾"	106	58	24	10	30	22	19.10	34	68	22	52	53	5.000
200-300Nm	1"	123	58	33	14	40	29.2	25.40	39	78	28	62	54	5.000

