

1Nm N-TYPE IN-LINE TORQUE TRANSDUCER

DESCRIPTION

The AWS LTD N-Type In-Line Torque Transducer range (NITT), is designed to accurately measure torque values, in a variety of industries. With optimized torque ranges, the transducer uses a standard analogue connection through a male MIL C connector, from a full active Wheatstone bridge, outputting a mV/V reading.

The transducer contains a memory chip in which a small selection of parameters, including serial number, model number, and calibration value, are held, compatible for setting some manufacturers display units.

There is an option (using the In-line Transducer Mounting Bracket, purchased separately) to bench mount the transducer in either a vertical or horizontal position. The vertical position allows it to be mounted in ISO torque wrench calibration machines.

This transducer incorporates a mechanical overload protection stop at 110% of full scale to prevent damage to the transducer. This transducer is can either be Male SQ drive to Male SQ drive or Male SQ to Male HEX drive. There are 2x M4 threaded holes in the reaction end and bottom surface for bolting.

SPECIFICATIONS

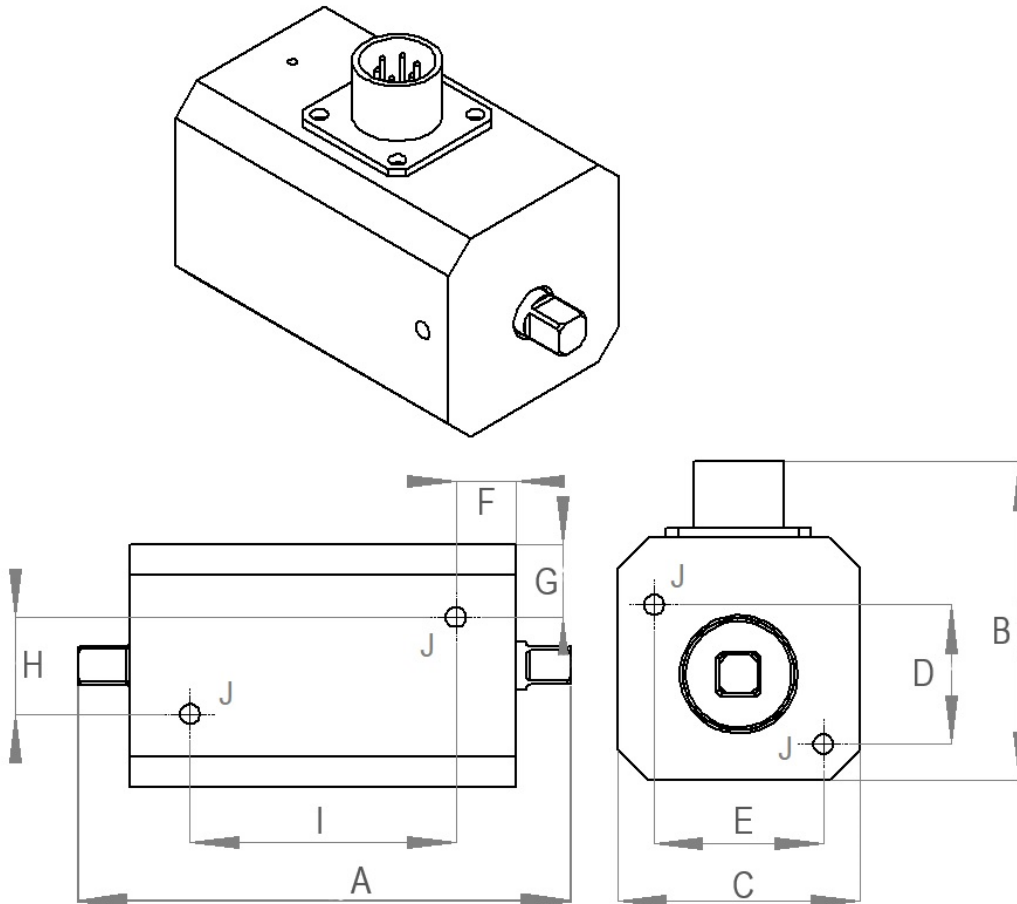
Model: NITT-	3111	3111H	3018	3018H
Ranges:	0.02-0.5Nm	0.02-0.5Nm	0.04-1Nm	0.04-1Nm
Drive Size:	1/4"	1/4" HEX	1/4"	1/4" HEX

Accuracy:	Better than 0.1% of reading from 10 to 100% of rated output. See calibration certificate for full results.
Signal output	2 mV/V Strain gauge
Communication:	Not Applicable
Overload Capacity:	120%
Bridge Impedance	350 Ω
MAX voltage requirement	10V DC 30mA
Power and Display:	Requires DC power supply and Dedicated mV meter
Maximum mechanical overload:	150% with stop
Operating Temperature:	-10°C to +50°C.
Connector:	Mil C 26482 series. 6 pin. Shell size 10.
CE:	2014/30/EU
EMC:	BS EN 61326:2007



DIMENSIONS

Model	Dimension (mm)								
	A	B	C	D	E	F	G	H	I
NITT-3111	82	53	40	25	25	10	12	16	44
NITT-3018	82	53	40	25	25	10	12	16	44



Mounting Tapped Hole "J"	Square Drive	Weight (Kg)
M4	Male 1/4"	0.3

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Data was correct at time of publication.
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