

Reaction Torque Sensors

01090 Series

SHAFT TORQUE SENSOR

The torque output of motors and absorbers can often be sensed by measuring the reaction torque required to prevent the housing from rotating. They are also ideal for limited rotation applications such as the measurement of torque required to turn a valve, fastener or actuator shaft.

SPECIFICATIONS

Capacity..... 100 to 10,000 in-lbs (See chart)
 Overload capacity..... 150% of F.S.
 Output at F.S..... 2.0 mV/V nominal
 Non-linearity..... 0.10% of F.S.
 Hysteresis..... 0.10% of F.S.
 Zero balance..... 1.00% of F.S.
 Compensated temperature.....70 to 170°F
 Useable temperature..... -65 to +250°F
 Temperature effect on zero..... 0.002% of F.S./°F
 Temperature effect on span..... 0.002% of Rdg./°F
 Bridge resistance..... 350 Ohms
 Excitation voltage, maximum..... 20 Vdc
 Material..... Alloy Steel



DIMENSIONS

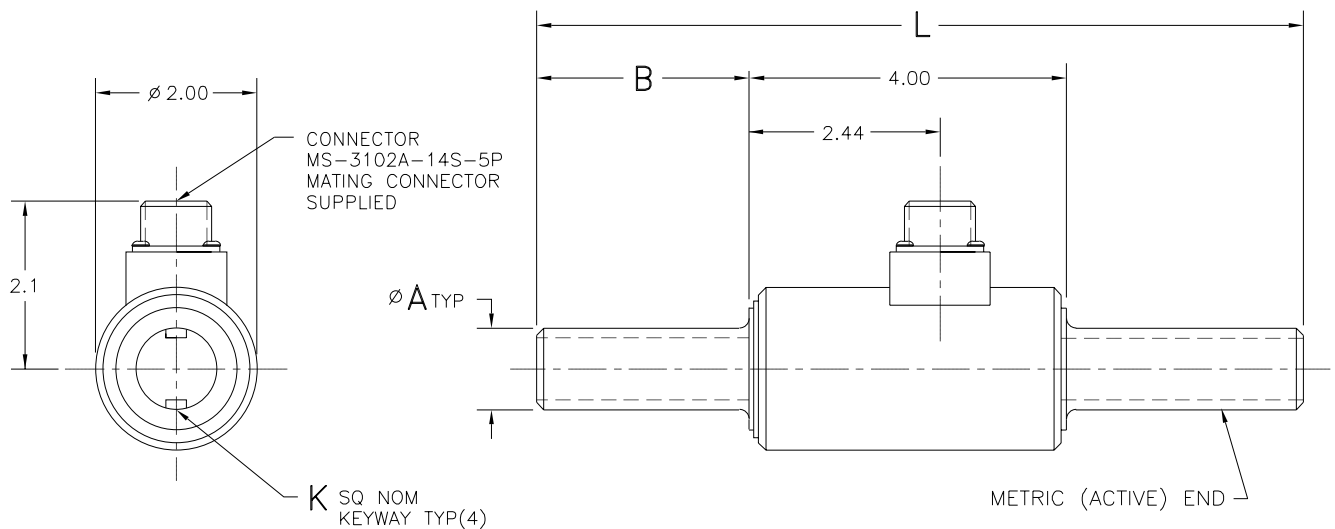
MODEL	A	CAPACITY			STANDARD		OPTION "L"		K
		IN LB	FT LB	NM	L	B	L	B	
01090-012	.75	100	8	12	8.5	2.25	10.00	3.00	3/16
01090-022		200	17	22					
01090-052	1.00	500	40	55	9.50	2.75	12.75	4.38	3/8
01090-013		1000	83	110					
01090-023		2000	167	225					
01090-053	1.50	5000	417	565	9.50	2.75	12.75	4.38	3/8
01090-014		10000	833	1130					

OPTIONS

(Consult SDI for dimensions)

For different end configurations, change model number from 01090 to:

Model	Non active end	Active end
01091	Keyed shaft	Female socket
01092	Keyed shaft	Flange



DWG



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