

FUTEK MODEL TRD600

NON CONTACT SQUARE DRIVE ROTARY TORQUE SENSOR

Drawing Number: FI1026-A

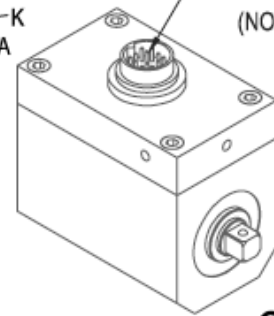
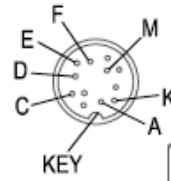
CE COMPLIANT

INCH [mm] R.O.= Rated Output

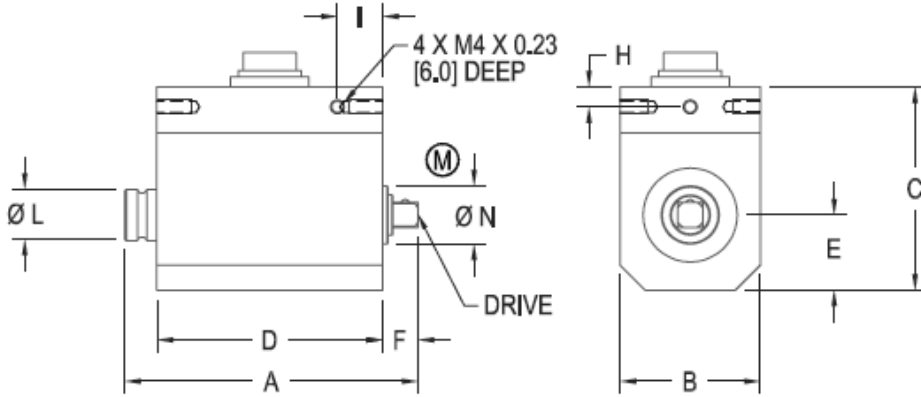
CONNECTOR CODE
(CABLE PACKAGE WIRING CODE)

Power	Ground	Signal	Return (Signal)
PIN 'F' (RED)	PIN 'E' (BLACK)	PIN 'C' (GREEN)	PIN 'D' (WHITE)
Shield	Shunt Cal	Shunt Cal (Gnd)	
PIN 'M' (Floating)	PIN 'K' (PURPLE)	PIN 'A' (YELLOW)	

BINDER RECEPTACLE
09-0331-90-12
MATING CONNECTOR
99-2030-09-12
(NOT INCLUDED)



+OUTPUT
(CW)



(M) = MEASURING SIDE

STOCK #	Capacity		Sq. Drive	A	B	C	D	E	F	H	I	L Ø	N Ø	MAX AXIAL FORCE		MAX RADIAL FORCE		ROTATIONAL SPEED (MAX)
	in-lb	N m												lb	(N)	lb	(N)	
FSH02008	106	12	1/4"	2.95	1.1	2.04	2.28	0.55	0.33	0.19	0.43	0.51	-	34	150	7	30	12000 RPM
FSH02009	159	18		[75]	[28]	[52]	[58]	[14]	[8.5]	[5]	[11]	[13]	-					
FSH02010	443	50	3/8"	2.93	1.49	2.28	1.73	0.75	0.71	0.24	0.87	0.98	0.67	112	500	13.5	60	9000 RPM
FSH02011	558	63		[74.5]	[38]	[58]	[44]	[19]	[18]	[6]	[22]	[25]	[17]					
FSH02012	885	100	1/2"	3.11	1.49	2.28	1.73	0.75	0.89	0.24	0.87	0.98	0.67	157	700	22.5	100	
FSH02013	1328	150		[79]	[38]	[58]	[44]	[19]	[22.5]	[6]	[22]	[25]	[17]					
FSH02014	1416	160												225	1000	22.5	100	
FSH02015	2213	250	3/4"	3.82	2.28	2.99	1.97	1.14	1.18	0.19	0.98	1.57	1.18	450	2000	34	150	7000 RPM
FSH02016	2655	300		[97]	[58]	[76]	[50]	[29]	[30]	[5]	[25]	[40]	[30]					
FSH02017	4425	500																
FSH02018	8851	1000	1"	4.41	2.87	3.54	2.24	1.43	1.36	0.19	1.12	1.97	1.57	900	4000	56	250	
				[112]	[73]	[90]	[57]	[36.5]	[34.5]	[5]	[28.5]	[50]	[40]					

SPECIFICATIONS:

RATED OUTPUT	±5VDC
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±1% of R.O.
EXCITATION	11-26 VDC
NONLINEARITY	±0.2% of R.O.
HYSTERESIS	±0.1% of R.O.
NONREPEATABILITY	±0.2% R.O.
TEMP. SHIFT ZERO	±0.01% of R.O. / °F [±0.02% of R.O. / °C]
TEMP. SHIFT SPAN	±0.01% of R.O. / °F [±0.02% of Load / °C]
OPERATING TEMP.	-13 to 176°F [-25 to +80°C]
CONNECTOR:	12 pin Binder Series #581 (09-0331-90-12)
ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE	
CALIBRATION (STD)	Certificate of Conformance
CALIBRATION (AVAILABLE)	5pt CW and CCW
CALIBRATION TEST EXCITATION	12 VDC
SHUNT CALIBRATION	With sensor fully connected apply 11-26 VDC to Pins A & K to generate 5VDC nom output.

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