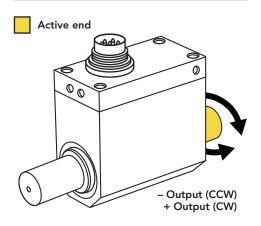




FEATURES

- Utilizes strain gauge technology
- Angle speed feedback
- Compact size
- Can operate up to 7000 RPM



SPECIFICATIONS	
PERFORMANCE	
Nonlinearity	±0.2% of RO
Hysteresis	±0.1% of RO
Nonrepeatability	±0.2% of RO
Rotational Speed	7000 Max
ELECTRICAL	
Rated Output (RO)	±5 VDC
Excitation	11–26 VDC, 1 Watt
Connector	12 pin Binder Series #581 (09-0331-90-12)
MECHANICAL	
Safe Overload	150% of RO
Zero Balance	±1% of RO
Material	Aluminum (Housing), Steel Alloy (Shaft)
IP Rating	IP40
TEMPERATURE	
Operating Temperature	–13 to 176°F (–25 to 80°C)
Compensated Temperature	41 to 122°F (5 to 50°C)
Temperature Shift Zero	±0.01% of RO/°F (±0.02% of RO/°C)
Temperature Shift Span	±0.01% of RO/°F (±0.02% of RO/°C)
CALIBRATION	
Calibration Test Excitation	12 VDC
Calibration (standard)	Certificate of Conformance
Calibration (available)	5-pt CW & CCW
Shunt Calibration Value	With sensor fully connected apply 11–26 VDC to Pins A & K to generate 5 VDC nom output
ENCODER	
Output	Impulse (TTL)
Pulses per Revolution	2 × 360
Excitation	5 VDC
Angle 1	Leading Pulse
Angle 2	Trailing Pulse (90°)
CONFORMITY	
RoHS	2014/30/EU
CE	Declaration of Conformity

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Sensor Solution Source Load · Torque · Pressure · Multi-Axis · Calibration · Instruments · Software















Model TRS605

DIMENSIONS inches [mm]

*	ANTI-ROTATION HOLES.	NOT TO	BE USED	TO SUPPORT LO	AD.

^{**}FEATHER KEYWAYS APPLY TO 20 AND 50 Nm PER DIN 6885, KEYWAYS COME PRE-INSTALLED

TORQ	TORQUE CONNECTOR CODES										
PIN	COLOR	DESCRIPTION									
С	Green	Signal Output									
D	White	Ground									
E	Black	Ground									
F	Red	Power									

ANGL	ANGLE CONNECTOR CODES											
PIN	COLOR	DESCRIPTION										
В	Blue	Signal (Angle 1)										
E	Black	Ground										
G	Brown	Signal (Angle 2)										
Н	Orange	Power										

SHUN	SHUNT CAL CONNECTOR CODES											
PIN	COLOR	DESCRIPTION										
Α	Yellow	Ground										
K	Purple	Power										

SHIELI					
PIN	COLOR	DESCRIPTION			
М	Floating	Shield			

CAPACITII	ES																																	
ITEM #	in-lb	Nm	ØD	Α	В	С	E	F	G	н	ı	J	K*	L	M	N**	0	P**	Q*	*** Max Axial Force lb [N]	*** Max Radial Force lb [N]	Weight lb [kg]												
FSH02052	9	1																		4.5 [20]	1 [5]													
FSH02053	18	2	0.394	3.62 [92]													1.10	2.04	0.63	0.67	2.28	0.55	0.19	0.43		0.31	0.31	N/A	1.46	N/A	6	11 [50]	1 [5]	0.7
FSH02054	44	5	[10] g6														[92]	[92]	[92]	[92]	[92]	[92]	[92]	[92]	[28]	[52]	[16]	[17]	[58]	[14]	[5]	[11]	-	[8]
FSH02055	89	10																					34 [150]	4.5 [20]										
FSH02056	177	20	0.630	4.09	1.49	2.28	0.78	0.90	2.32	0.75	0.19	0.47	1.38	0.55	0.40	0.197	1.50	0.787		34 [150]	7 [30]	1.3												
FSH02057	443	50	[16] g6	[104]	[38]	[58]	[20]	[23]	[59]	[19]	[5]	[12]	[35]	[14]	[10]	[5]	[38]	[20]	8	45 [200]	11 [50]	[0.60]												



- AXIAL***



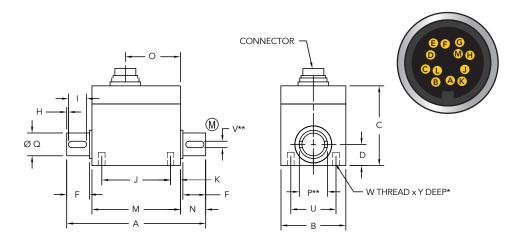






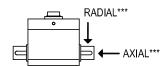
Model TRS605

DIMENSIONS inches [mm]



M = MEASURING SIDE

- * ANTI-ROTATION HOLES, NOT TO BE USED TO SUPPORT LOAD.
- ** FEATHER KEYWAYS COME PRE-INSTALLED.
- *** MAXIMUM LOAD ALLOWED. NOT FOR MEASUREMENT.



TORQUE CONNECTOR CODES COLOR **DESCRIPTION** PIN С Signal Output Green White D GroundΕ Black GroundF Power

Red

ANGL	ANGLE CONNECTOR CODES										
PIN	COLOR	DESCRIPTION									
В	Blue	Signal (Angle 1)									
E	Black	Ground									
G	Brown	Signal (Angle 2)									
Н	Orange	Power									

SHUN	NT CAL CONNECTOR CODES											
PIN	COLOR	DESCRIPTION										
Α	Yellow	Ground										
K	Purple	Power										

SHIELD	CONNEC	TOR CODES
PIN	COLOR	DESCRIPTION
М	Floating	Shield

CAPACITI	APACITIES																															
ITEM #	in-lb	Nm	øο	A	В	С	D	F	Н	ı	J	K	M	N	0	P**	U	V**	w	Υ	*** Max Axial Force lb [N]	*** Max Radial Force lb [N]	Weight Ib [kg]									
FSH02058	885	100	1.102 [28] g6									1.102 [28] g6	4.92	2.28	2.99	1.14	1.06	0.08	0.87	1.54	0.49	2.52	1.20	1.57	1.34	1.69	0.315	M5	0.31	90 [400]	56 [250]	2.3
FSH02059	1770	200											[28] g6			[125]	[58]	[76]	[29]	[27]	[2]	[22]	[39]	[12.5]	[64]	[30.5]	0.5] [40])] [34]	[43]	[8] p9	IVI5	[8]
FSH02060	4425	500	1.654	7.76	2.87	3.54	1.44	2.28	0.12	1.97	1.46	0.71	2.87	2.44	1.73	1.89	2.05	0.551	N4/	0.39	180 [800]	90 [400]	6.4									
FSH02061	8851	1000	[42] g6	[197]	[73]	[90]	[36.5]	[58]	[3]	[50]	[37]	[18]	[73]	[62]	[44]	[48]	[52]	[14] p9	M6	[10]	225 [1000]	90 [400]	[2.90]									

Drawing Number: FI1410

FUTEK reserves the right to modify its design and specifications without notice.















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