



Drawing Number: FI1248-C

INCH [mm] | R.O.= Rated Output

CONNECTOR CODE (CABLE PACKAGE WIRING CODE)

Torque Connections

Power	GROUND	SIGNAL OUTPUT	GROUND
PIN 'F' (RED)	PIN 'E' (BLACK)	PIN 'C' (GREEN)	PIN 'D' (WHITE)

Angle Connections

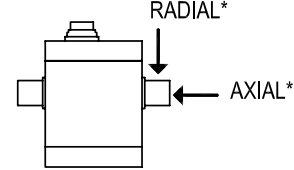
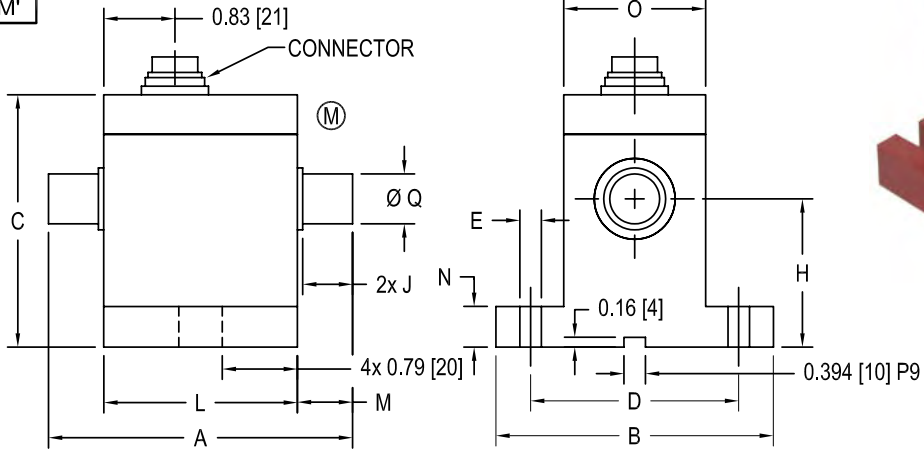
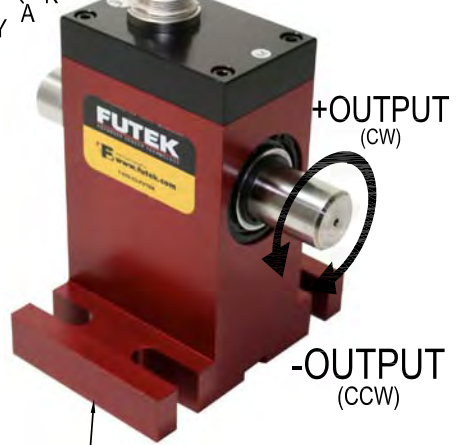
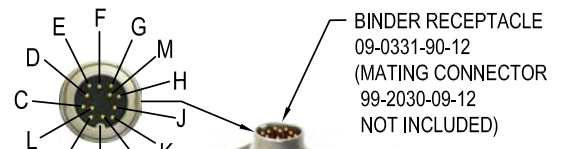
Power	GROUND	Signal (Angle 1)	Signal (Angle 2)
PIN 'H' (ORANGE)	PIN 'E' (BLACK)	PIN 'B' (BLUE)	PIN 'G' (BROWN)

Shunt Cal Connections

Power	GROUND
PIN 'K' (PURPLE)	PIN 'A' (YELLOW)

Shield Connection

Shield (Floating)
PIN 'M'



(M) = MEASURING SIDE

* MAXIMUM LOAD ALLOWED, NOT FOR MEASUREMENT.

ITEM #	CAPACITY in-lb N-m	Ø Q	A	B	C	D	E	H	J	L	M	N	O	*MAX.AXIAL FORCE lb[N]	*MAX.RADIAL FORCE lb[N]	WEIGHT lb[kg]
FSH02562	8.9 1													4 [20]	3 [15]	1.1 [0.50]
FSH02563	17.7 2	0.394 [10] g6	3.54 [90]	2.28 [58]	3.27 [83]	1.77 [45]	0.28 [7]	1.77 [45]	0.59 [15]	2.28 [58]	0.63 [16]	0.47 [12]	1.10 [28]	11 [50]	5 [25]	
FSH02564	44.3 5													22 [100]	11 [50]	
FSH02565	88.5 10													33 [150]	11 [50]	
FSH02566	177 20	0.669 [17] g6	4.17 [106]	3.35 [85]	4.02 [102]	2.36 [60]	0.35 [9]	2.48 [63]	0.87 [22]	2.32 [59]	0.91 [23]	0.59 [15]	1.50 [38]	33 [150]	33 [150]	2.2 [1.00]
FSH02567	443 50													44 [200]	33 [150]	

TORQUE SPECIFICATIONS:

RATED OUTPUT	±5VDC
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±1% of R.O.
EXCITATION (VDC)	11-26 VDC, 1 Watt
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 Load / °F [±0.02% of Load / °C]
OPERATING TEMP.	-13 to 176°F [-25 to +80°C]
COMPENSATED TEMP.	41 to 122°F [+5 to +50°C]
ROTATIONAL SPEED	7000 RPM MAX
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.

ENCODER SPECIFICATIONS:

OUTPUT	IMPULSE (TTL)
PULSES / REV	2 x 360
EXCITATION	5 VDC
ANGLE 1- LEADING PULSE	
ANGLE 2- TRAILING PULSE (90°)	

TRS705

NON CONTACT SHAFT TO SHAFT ROTARY TORQUE SENSOR W/ ENCODER
FOR 1-50 Nm SEE FI1248

CE COMPLIANT

Drawing Number: FI1249-C

INCH [mm] R.O.= Rated Output

CONNECTOR CODE (CABLE PACKAGE WIRING CODE)

Torque Connections

Power	GROUND	SIGNAL OUTPUT	GROUND
PIN 'F' (RED)	PIN 'E' (BLACK)	PIN 'C' (GREEN)	PIN 'D' (WHITE)

Angle Connections

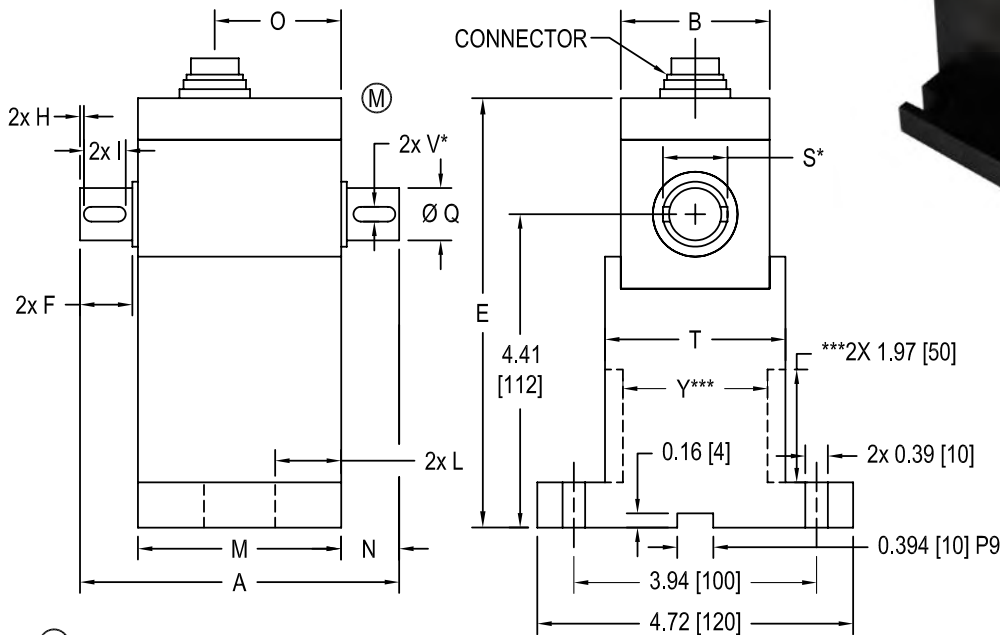
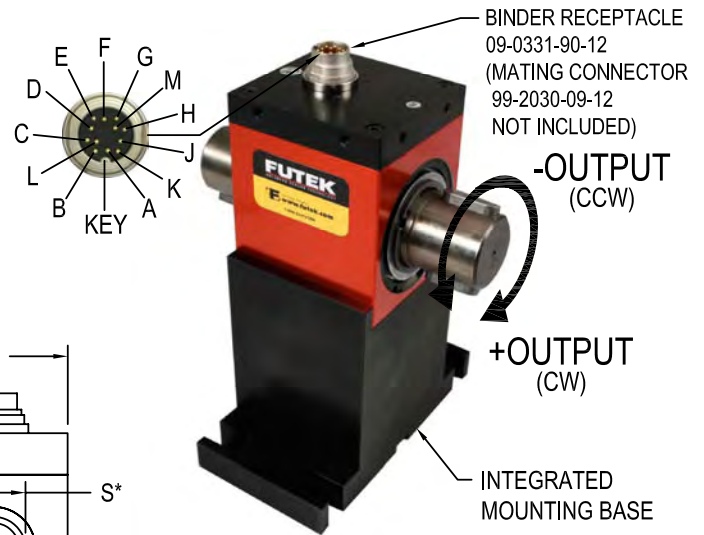
Power	GROUND	Signal (Angle 1)	Signal (Angle 2)
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Shunt Cal Connections

Power	GROUND
PIN 'K' (PURPLE)	PIN 'A' (YELLOW)

Shield Connection

Shield (Floating)
PIN 'M'



(M) = MEASURING SIDE

* FEATHER KEYWAYS PER DIN 6885, KEYWAYS COME PRE-INSTALLED.

** MAXIMUM LOAD ALLOWED, NOT FOR MEASUREMENT.

ITEM #	CAPACITY in-lb N m	Ø Q	A	B	E	F	H	I	L	M	N	O	S*	T	V*	Y***	**MAX.AXIAL FORCE lb[N]	**MAX.RADIAL FORCE lb[N]	WEIGHT lb[kg]
FSH02568	885 100	1.102	4.92	2.28	6.26	1.06	0.08	0.87	0.79	2.52	1.20	1.57	1.34	2.68	0.315	-	90 [400]	56 [250]	5.2
FSH02569	1770 200	[28] g6	[125]	[58]	[159]	[27]	[2]	[22]	[20]	[64]	[30.5]	[40]	[34]	[68]	[8] p9	-	90 [400]	67 [300]	[2.36]
FSH02570	4425 500	1.654	7.76	2.87	6.52	2.28	0.12	1.97	0.98	2.87	2.44	1.73	1.89	3.27	0.551	2.87	180 [800]	90 [400]	9.5
FSH02571	8851 1000	[42] g6	[197]	[73]	[165.5]	[58]	[3]	[50]	[25]	[73]	[62]	[44]	[48]	[83]	[14] p9	[73]	225 [1000]	90 [400]	[4.30]

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ZERO BALANCE	±1% of R.O.
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CALIBRATION (AVAILABLE)	5pt CW and CCW
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PULSES / REV	2 x 360
EXCITATION	5 VDC
ANGLE 1- LEADING PULSE	
ANGLE 2- TRAILING PULSE (90°)	

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