FUTEK MODEL TRS300

SHAFT TO SHAFT ROTARY TORQUE SENSOR

CE COMPLIANT

DRAWING NUMBER: F11025-E

INCH [mm] R.O. = Rated Output

CONNECTOR CODE
(CABLE PACKAGE WIRING CODE)

Excitation +Excitation Shield +Signal

PIN '1' (BLACK) PIN '2' (RED) PIN '3' (FLOATING) PIN '4' (GREEN)

Signal Shunt Cal

PIN '5' (WHITE) PIN '6' (ORANGE)

M = MEASURING SIDE
* ANTI-ROTATION HOLES, NOT TO BE USED TO SUPPORT LOAD.
** FEATHER KEYWAYS PER DIN 6885, KEYWAYS COME PRE-INSTALLED.
*** MAXIMUM LOAD ALLOWED, NOT FOR MEASUREMENT.

ITEM # CAPACITY in-lb N·m Ø A B C D E F G H I K M N** P** O

FS01097 89 10 0.748 [19] 0.26 [108] 1.49 [38] 2.28 [58] 1.73 [44] 0.74 [19] 1.18 [30] 0.23 [6] 0.86 [22] 0.28 [6] 0.945 [24] 0.87 [22] 0.9 [20]


FS01090 885 100 900 [2000] 67 [300] 90 [400]


FS01093 8851 1000 1350 [3000] 90 [400] 90 [400]

SPECIFICATIONS:

RATED OUTPUT 2 mV/V nm
SAFE OVERLOAD 150% of R.O.
ZERO BALANCE ±1% of R.O.
EXCITATION (V/DC OR VAC) 5 to 11 V
BRIDGE RESISTANCE 350 Ω, nom.
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. 14 to 194°F [-10 to +90°C]
COMPENSATED TEMP. 41 to 122°F [±5 to +50°C]

ROTATIONAL SPEED 3000 RPM MAX
CONNECTOR: 6 pin Binder Series #581 (09-0323-99-06)
ACCESSORIES AND RELATED INSTRUMENTS AVAILABLE
CALIBRATION (STD) Certificate of Conformance
CALIBRATION (AVAILBLE) 5pt CW and CCW
SHUNT CAL VALUE (INTERNAL) 87K ohm
CALIBRATION TEST EXCITATION 10VDC
SHUNT CALIBRATION With sensor fully connected jump Pins 1 & 6 to generate 2 mV/V nm output.

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