



Nm 01324

Torque Sensors – Rotary Shaft Slip Ring

These sensors are designed to measure rotating drive torque using a conventional shaft-to-shaft configuration for in-line placement. The design incorporates a coin silver slip ring assembly that transmits excitation voltage to, and output signals from, the rotating sensor. These sensors can be supplied with Auto-ID, which eliminates scaling when used with the PTI or PMAC 2000 instruments. An optical encoder to measure angle or speed is also available with this model



OPTIONS:

4 pin Bendix connector (non Auto-ID)

- 10 pin Bendix connector (Auto-ID)
- Integrated signal amplifier (+/-5V or +/-10V, 4-20mA)
- Integral optical encoder 1024 ppr and 1500 ppr (requires 10 pin connector)
- Footmount

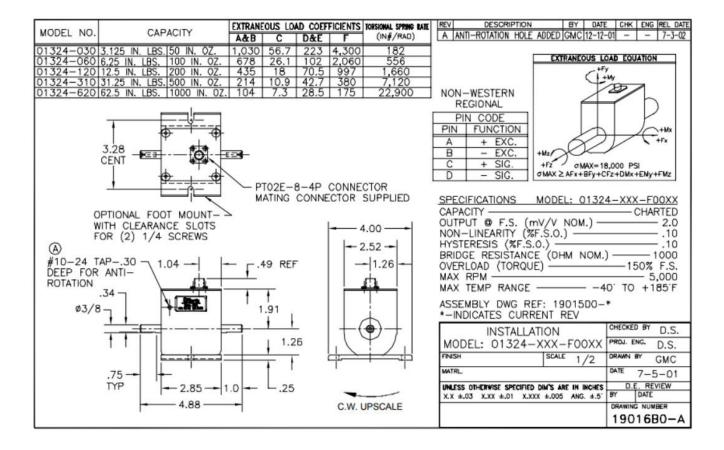
SPECIFICATIONS

Capacity	50 in. oz. to 20,000 in.lb. (.35 to 2300Nm)
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	-40 to +185°F
Temperature effect on zero	0.002% of F.S./°F
Temperature effect on span	0.002% of Rdg./°F
Bridge resistance	1000 Ohms
Excitation voltage, maximum	20 Vdc
Maximum shaft speed	5000 RPM*





DIMENSIONS

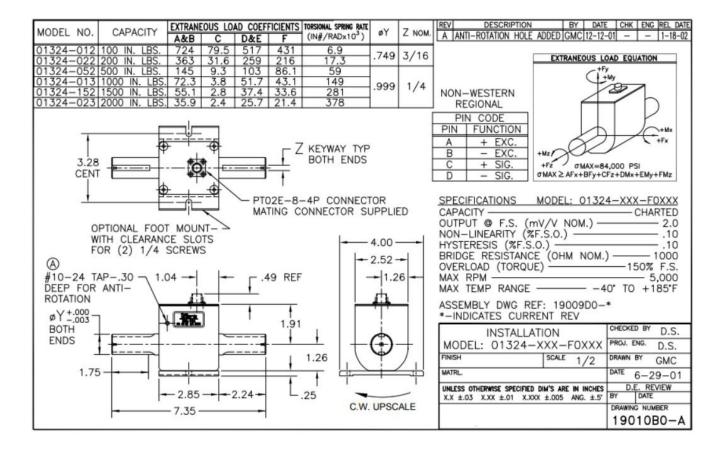


	0.0.00	EXTRANEOUS LOA	D COEFFICIENTS	TORSIONAL SPRING RATE	REV DESCRIPTION BY DATE CHK ENG REL DATE
MODEL NO. CAPACITY	CAPACITY	A&B C	D&E F	(IN#/RAD)	A ANTI-ROTATION HOLE ADDED GMC 12-12-01 - 1-18-02
01324-060	31.25 IN. LBS. 500 IN. OZ.	1,030 56.7 678 26.1 435 18 214 10.9 104 7.3	223 4.300 102 2.060 70.5 997 42.7 380 28.5 175	182 556 1,660 7,120 22,900	PIN CODE PIN FUNCTION A + EXC. C + SIG. C + SIG.
		3-		ENCODE AUTO II	H CW TRAL H CW TRAL +Wz +FZ OMAX = 18,000 PSI OMAX = AFX+BFy+CFz+DMx+EMy+FMz
			2-10P CON CONNECTOR		SPECIFICATIONS MODEL: 01324-XXX-GA0XX CAPACITY CHARTED OUTPUT @ F.S. (mV/V NOM.) 2.0 NON-LINEARITY (%F.S.O.) .10 HYSTERESIS (%F.S.O.) .10 BRIDGE RESISTANCE (0HM NOM.) 1000
W FC	AP30 - 1.04 -	49 REF		2.52	OVERLOAD (TORQUE) 150% F.S. MAX RPM 5,000 MAX TEMP RANGE40° TO +185°F
DEEP FOR ROTATION	ANTI-	1.91			POSITION ENCODER: TYPEOPTICAL ENCODER RESOLUTION
				♥┤	INSTALLATION CHECKED BY D.S. MODEL: 01324-XXX-GAOXX PROJ. ENG. D.S. FINISH SCALE 1/2 DRAWN BY GMC MATRL DATE 6-13-01 DATE 6-13-01
	.75 - 1- TYP - 2.85 - 1	.025		IDCOME	UNLESS OTHERWISE SPECIFIED DIN'S ARE IN INCHES D.E. REVIEW X.X ±.03 X.XX ±.01 X.XXX ±.005 ANG. ±.5 BY DATE DRAWING NUMF
	4.08	-1	C.W. 1	JPSCALE	18983E





DIMENSIONS



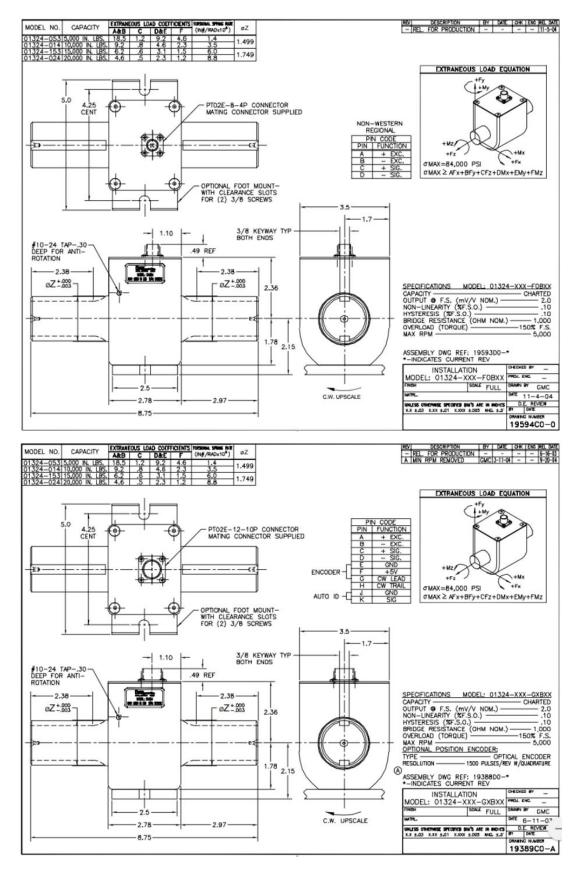
MODEL NO. CAPACITY	EXTRANEOUS LOAD COEFFICIENT	TORSIONAL SPRING RATE (IN#/RAD×10 ³)	øY	Z NOM.	REV DESCRIPTION BY DATE CHK ENG REL DATE A ANTI-ROTATION HOLE ADDED GMC 12–12–01 — — 3–6–03
01324-012 100 IN. LBS. 01324-022 200 IN. LBS.	724 79.5 517 431 363 31.6 259 216	1 6.9 5 17.3	.749	3/16	EXTRANEOUS LOAD EQUATION
01324-052 500 IN. LBS. 01324-013 1000 IN. LBS 01324-152 1500 IN. LBS 01324-023 2000 IN. LBS	. 55.1 2.8 37.4 33.6	1 149 6 281	.999	1/4	PIN FUNCTION A + EXC. B - EXC. C + SiG. D - SiG.
3.28		Z KEYWAY TYP BOTH ENDS		ICODER	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
		12-10P CONNE CONNECTOR SU		D	SPECIFICATIONS MODEL: 01324-XXX-GA0XX CAPACITY
OPTIONAL FOO WITH CLEARAN FOR (2) 1/4	CE SLOTS SCREWS		.00 —		BRIDGE RESISTANCE (OHM NOM.) 1000 OVERLOAD (TORQUE) 150% F.S. MAX RPM
#10-24 TAP30 1. DEEP FOR ANTI- ROTATION Ø Y ^{+.000}		- -+	1.26		ASSEMBLY DWG REF: 18899DO-* *-INDICATES CURRENT REV
BOTH ENDS			Ð-	+	INSTALLATION CHECKED BY D.S. MODEL: 01324-XXX-GA0XX PROJ. ENG. D.S. FINISH SCALE 1/2 DRAWN BY GMC
	- 2.85 - 2.24 -	25 C.W.I	JPSCA		MATRL. DATE 2 - 1 - 01 UNLESS OTHERWISE SPECIFIED DIM'S ARE IN INCHES D.E. REVIEW X.X ±.03 X.XX ±.01 X.XXX ±.005 ANG. ±.5' BY DATE DRAWING NUMBEP DRAWING NUMBEP DRAWING NUMBEP DRAWING NUMBEP DRAWING NUMBEP
					18900E #

Version | 09.2015





DIMENSIONS



Page 4/4

ersion | 09.2019

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification. Althen – Your expert partner in Sensors & Controls | althensensors.com

Althen stands for pioneering measurement and custom sensor solutions. In addition we offer services such as calibration, design & engineering, training and renting of measurement equipment.

Germany/Austria/Switzerland info@althen.de **Benelux** sales@althen.nl **France** info@althensensors.fr **Sweden** info@althensensors.se USA/Canada info@althensensors.com

Other countries info@althensensors.com