BLRTSX-R/RA

Brushless Rotary Torque & Angle Shaft Transducer with ARCII Technology

KEY FEATURES

Accuracy ± 0.2% of full scale.

Non-contact signal transfer and maintenance free.

Compact design & bi-directional.

Used in-line with rotating shafts or nutrunners for feed back control. Motor testings, high RPM Tools or rotational measurement applications.

RA Models:
- Angle output 2-channel quadrature
- 360 pulses per rotation
- Ability to measure the rotation angle of a fastener
- Joint rate & breakaway torque can be measured too

Features "ARCII" technology, an instant auto-recognition system of the BLRTSX-R/RA connected to the PTT or LTT.

Model	Item #	Torque Ranges American	Torque Ranges S.I.
BLRTSX140z-R	**170260**	25 - 140 ozf.in	18 - 98.8 cN.m
BLRTSX140z-RA	**170261**	25 - 140 ozf.in	18 - 98.8 cN.m
BLRTSX18i-R	**170262**	2 - 18 lbf.in	22.5 - 203 cN.m
BLRTSX18i-RA	**170263**	2 - 18 lbf.in	22.5 - 203 cN.m
BLRTSX44i-R	**170264**	4 - 44 lbf.in	45.2 - 497 cN.m
BLRTSX44i-RA	**170265**	4 - 44 lbf.in	45.2 - 497 cN.m
BLRTSX89i-R	**170266**	10 - 89 lbf.in	113 - 1005 cN.m
BLRTSX89i-RA	**170267**	10 - 89 lbf.in	113 - 1005 cN.m
BLRTSX177i-R	**170268**	18 - 177 lbf.in	203.4 - 2000 cN.m
BLRTSX177i-RA	**170269**	18 - 177 lbf.in	203.4 - 2000 cN.m
BLRTSX36F-R	**170270**	4 - 36 lbf.ft	5 - 50 N.m
BLRTSX36F-RA	**170271**	4 - 36 lbf.ft	5 - 50 N.m
BLRTSX73F-RA	**170272**	8 - 73 lbf.ft	10 - 100 N.m
BLRTSX148F-RA	**170273**	15 - 148 lbf.ft	20 - 200 N.m
BLRTSX368F-RA	**170274**	37 - 368 lbf. ft	50 - 500 N.m
BLRTSX738F-RA	**170275**	74 - 738 lbf.ft	100 - 1000 N.m

R models are Torque only transducers.
RA models are Torque & Angle tranducers.
* With feather keyways (2x180°)

SPECIFICATIONS

Rated Output: ± 5VDC ± 0.2% FS

Excitation Recommended: 11VDC to 26VDC (pole secure)

Nonlinearity: + 0.2% FS

Usable Temperature Range: 41 - 122° F

Mating Connector: Tuscel Series 581 (98-2030-09-12)

Safe Overload: 150% of Rated Output

NOTE!

For optimum performance, it is recommended to utilize coupling in order to minimize extraneous load & moments due to misalignment. Contact customer service for information.

CERTIFIED

Supplied with NIST-Traceable Certification of Calibration

PLUG & PLAY

BLRTSX-R/RA CABLE

Item #072001

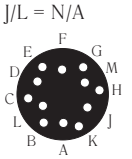
For connecting a BLRTSX-R/RA to the PTT or LTT.

BLRTSX-R PIN CONNECTION

A = Ground (Shunt Calibration)
C = Torque Output
D = Ground (Torque Output)
E = Ground (Supply)
F = Supply, 11-26 VDC, 1 W
K = Shunt Calibration
M = Shield
B/G/H/J/L = N/A

BLRTSX-RA PIN CONNECTION

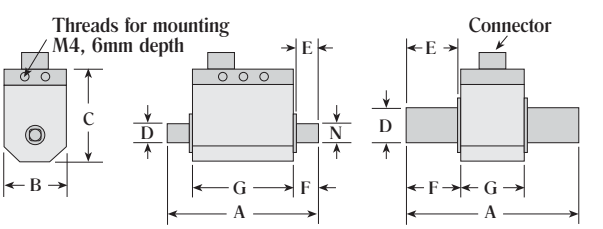
A = Ground (Shunt Calibration)
B = Angle1 Speed
C = Torque Output
D = Ground (Torque Output)
E = Ground (Supply)
F = +12V (Supply)
G = Angle 2 (90° running after Angle 1)
H = +5V (Angle Voltage)
K = Shunt Calibration
M = Shield
J/L = N/A



DIMENSIONS

mm

Model	A	B	C	D	E	F	G	N
BLRTSX140z-R	92	28	52	10	16	17	58	Shaft
BLRTSX140z-RA	92	28	52	10	16	17	58	Shaft
BLRTSX18i-R	92	28	52	10	16	17	58	Shaft
BLRTSX18i-RA	92	28	52	10	16	17	58	Shaft
BLRTSX44i-R	92	28	52	10	16	17	58	Shaft
BLRTSX44i-RA	92	28	52	10	16	17	58	Shaft
BLRTSX89i-R	92	28	52	10	16	17	58	Shaft
BLRTSX89i-RA	92	28	52	10	16	17	58	Shaft
BLRTSX177i-R	108	38	58	19	30	32	44	*
BLRTSX177i-RA	104	38	58	16	20	23	59	*
BLRTSX36F-R	108	38	58	19	30	32	44	*
BLRTSX36F-RA	104	38	58	16	20	23	59	*
BLRTSX73F-RA	125	58	76	28	27	30.5	64	*
BLRTSX148F-RA	125	58	76	28	27	30.5	64	*
BLRTSX368F-RA	197	73	90	42	58	62	73	*
BLRTSX738F-RA	197	73	90	42	58	62	73	*



140z -36F Models

73F - 738F Models

mountz the torque tool specialists®

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