



**KEY FEATURES**

- Accuracy  $\pm 0.2\%$  of full scale\*.
- Non-contact signal transfer and maintenance free.
- 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.
- The common "brush bounce" that plagues the accuracy testing of pulse tools is cured when using a brushless rotary transducer.
- Compact design & bi-directional.
- For use with most power tools, high RPM tools, or rotational measurement applications.
- Features "ARCII" technology, an instant auto-recognition system of the BLRTSX-A connected to the PTT or LTT.



**CERTIFIED**

Supplied with Free ISO 17025 Certification of Calibration.



**PLUG & PLAY**



**NOTE!**

\*This is the "stand alone" accuracy for the torque sensor. When the sensor is coupled with a Mounzt torque analyzer, there is a system accuracy. Review the system accuracy listed with each torque analyzer.



**BLRTSX-A CABLE**

For connecting to PTT or LTT.

Item #072001

**CONNECTION**

- A = Ground (Shunt Calibration)
- B = Angle 1 Speed
- C = Torque Output
- D = Ground (Torque Output)
- E = Ground (Supply)
- F = Supply, 11-26 VDC, 1 W
- G = Angle 2 (90° running after Angle 1)
- H = +5V (Angle Voltage)
- K = Shunt Calibration
- M = Shield
- J & L = N/A



# BLRTSX-A

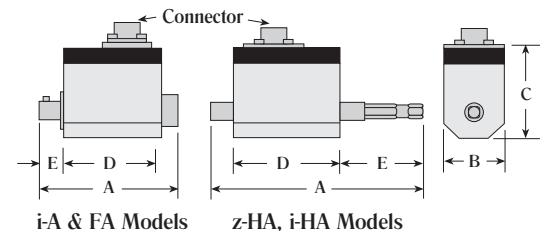
Brushless Rotary Torque & Angle Sensor with ARCII Technology

Model	Item #	Torque Ranges	
		American	S.I.
BLRTSX28z-HA	170283	10 - 28 ozf.in	7 - 20 cN.m
BLRTSX70z-HA	170246	10 - 70 ozf.in	7 - 49 cN.m
BLRTSX140z-HA	170247	25 - 140 ozf.in	18 - 98.8 cN.m
BLRTSX18i-HA	170248	2 - 18 lbf.in	22.5 - 203 cN.m
BLRTSX50i-HA	170249	5 - 50 lbf.in	56.5 - 565 cN.m
BLRTSX100i-HA	170250	10 - 100 lbf.in	113 - 1130 cN.m
BLRTSX100i-A	170251	10 - 100 lbf.in	113 - 1130 cN.m
BLRTSX160i-HA	170252	16 - 160 lbf.in	180 - 1807 cN.m
BLRTSX160i-A	170253	16 - 160 lbf.in	180 - 1807 cN.m
BLRTSX36F-A	170254	4 - 36 lbf.ft	5 - 50 N.m
BLRTSX73F-A	170255	8 - 73 lbf.ft	10 - 100 N.m
BLRTSX118F-A	170256	12 - 118 lbf.ft	16 - 160 N.m
BLRTSX184F-A	170257	19 - 184 lbf.ft	25 - 250 N.m
BLRTSX368F-A	170258	37 - 368 lbf.ft	50 - 500 N.m
BLRTSX738F-A	170259	74 - 738 lbf.ft	100 - 1000 N.m

**SPECIFICATIONS**

- Rated Output:  $\pm 5\text{VDC} \pm 0.2\% \text{ FS}$
- Excitation Recommended: 11VDC to 26VDC (pole secure)
- Nonlinearity:  $\pm 0.2\% \text{ FS}$
- Usable Temperature Range 41 to 122°F
- Mating Connector: Tuchel Series 581 (98-2030-09-12)
- Safe Overload: 150% of Rated Output

Model	Drive Size (inches)		Dimensions (mm)				
	Input	Output	A	B	C	D	E
BLRTSX28z-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX70z-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX140z-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX18i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX50i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX100i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX100i-A	1/4 F/Sq	1/4 M/Sq	75	28	52	58	8.5
BLRTSX160i-HA	1/4 M/Hex	1/4 F/Hex	101	28	52	58	28
BLRTSX160i-A	1/4 F/Sq	1/4 M/Sq	75	28	52	58	8.5
BLRTSX36F-A	3/8 F/Sq	3/8 M/Sq	101	38	58	59	21.5
BLRTSX73F-A	1/2 F/Sq	1/2 M/Sq	106	38	58	59	26
BLRTSX118F-A	1/2 F/Sq	1/2 M/Sq	106	38	58	59	26
BLRTSX184F-A	3/4 F/Sq	3/4 M/Sq	135	58	76	64	40
BLRTSX368F-A	3/4 F/Sq	3/4 M/Sq	135	58	76	64	40
BLRTSX738F-A	1 F/Sq	1 M/Sq	177	73	90	73	57.5



Threads for mounting M4, 6mm depth.