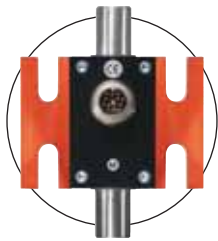


## KEY FEATURES

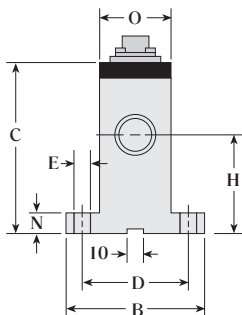
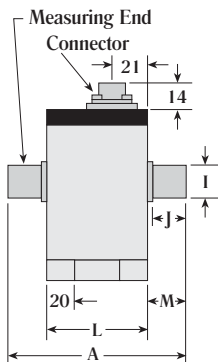
- Accuracy  $\pm 0.2\%$  of full scale.
- Non-contact signal transfer and maintenance free.
- Compact design & bi-directional.
- Features a built-in mounting base.
- Used for a variety automotive applications like starters, alternators, wiper motors, ABS, brakes, clutches, servo steering components, etc.
- Motor testing, high RPM tools or rotational measurement applications.
- 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-RAU connected to the PTT or LTT.

## SPECIFICATIONS

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



**MOUNTING BASE**  
Top view of BLRTSX-RAU shows adjustable position of the mounting base.



**PTT**  
A portable, accurate and versatile Torque & Angle Analyzer that fits comfortably in the hand.  
**See Page 01.4**

# BLRTSX-RAU

Brushless Rotary Torque & Angle Transducer  
with Mounting Base and ARCII Technology

Model	Item #	Torque Ranges	
		American	S.I.
BLRTSX140z-RAU	170276	25 - 140 ozf.in	18 - 98.8 cN.m
BLRTSX18i-RAU	170277	2 - 18 lbf.in	22.5 - 203 cN.m
BLRTSX44i-RAU	170278	4 - 44 lbf.in	45.2 - 497 cN.m
BLRTSX89i-RAU	170279	10 - 89 lbf.in	113 - 1005 cN.m
BLRTSX177i-RAU	170280	18 - 177 lbf.in	203.4 - 2000 cN.m
BLRTSX36F-RAU	170281	4 - 36 lbf.ft	5 - 50 N.m

## DIMENSIONS

Model	A	B	C	D	E	H	I	J	L	M	N	O
BLRTSX140z-RAU	90	58	83	45	7	45	10	15	58	16	12	28
BLRTSX18i-RAU	90	58	83	45	7	45	10	15	58	16	12	28
BLRTSX44i-RAU	90	58	83	45	7	45	10	15	58	16	12	28
BLRTSX89i-RAU	90	58	83	45	7	45	10	15	58	16	12	28
BLRTSX177i-RAU	106	85	102	60	9	63	14	22	59	23	15	38
BLRTSX36F-RAU	106	85	102	60	9	63	14	22	59	23	15	38



### NOTE!

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



### CERTIFIED

Supplied with NIST-Traceable Certification of Calibration



### PLUG & PLAY



## BLRTSX-RAU CABLE

Item #072001

For connecting to a PTT or LTT.

## 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)
- J = N/A
- K = Shunt Calibration
- M = Shield
- L = N/A

