

# RTSX-A

## Rotary Torque & Angle Transducer with ARCII Technology

Model	Item #	Torque Ranges	
		American	S.I.
RTSX10i-HA	170213	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX10i-A	170214	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX50i-HA	170215	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX50i-A	170216	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX100i-HA	170217	10 - 100 lbf.in	113 - 1130 cN.m
RTSX100i-A	170218	10 - 100 lbf.in	113 - 1130 cN.m
RTSX200i-HA	170219	20 - 200 lbf.in	226 - 2260 cN.m
RTSX200i-A	170220	20 - 200 lbf.in	226 - 2260 cN.m
RTSX50F-A	170221	5 - 50 lbf.ft	6.8 - 67.8 N.m
RTSX100F-A	170222	10 - 100 lbf.ft	13.6 - 135.6 N.m
RTSX400F-A	170223	40 - 400 lbf.ft	54.2 - 542.4 N.m
RTSX800F-A	170224	80 - 800 lbf.ft	108.4 - 1084 N.m
RTSX1500F-A	170282	150 - 1500 lbf.ft	203.3 - 2033 N.m

### SPECIFICATIONS

Output at Rated Capacity:  $\leq 6$  Nm [53 lbf.in] rated torque 1 mV/V  
 $> 6$  Nm [53 lbf.in] rated torque 2 mV/V

Interchangeability: Matched for mv/v and  
 Shunt Calibration + 0.3% FS

Nonlinearity: + 0.2% FS

Excitation Recommended: 12V DC or AC RMS

Bridge Resistance: 350 Ohms

Usable Temperature Range: 41 - 122°F

Mating Connector: Bendix PT06A-12

Safe Overload: 125% of Rated Output

### DRIVE SIZE

Model	Input	Output
RTSX10i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX10i-A	1/4 Female/Square	1/4 Male/Square
RTSX50i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX50i-A	1/4 Female/Square	1/4 Male/Square
RTSX100i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX100i-A	1/4 Female/Square	1/4 Male/Square
RTSX200i-HA	1/4 Male/Hex	1/4 Female/Hex
RTSX200i-A	1/4 Female/Square	1/4 Male/Square
RTSX50F-A	3/8 Female/Square	3/8 Male/Square
RTSX100F-A	1/2 Female/Square	1/2 Male/Square
RTSX400F-A	3/4 Female/Square	3/4 Male/Square
RTSX800F-A	1 Female/Square	1 Male/Square
RTSX1500F-A	1 1/2 Female/Square	1 1/2 Male/Square



### CERTIFIED

Supplied with NIST-Traceable  
 Certification of Calibration



### WARNING!

Not recommended for impact wrenches.



### PLUG & PLAY



Transducers

### KEY FEATURES

Accuracy  $\pm 0.25\%$  of full scale.

Ability to measure the rotation angle of a fastener.  
 Joint rate and breakaway torque can be measured too.

Angle Output: 2 channel quadrature, 360 pulses per rotation.

Bi-directional.

For use with most power tools or rotational measurement applications.

Features "ARCII" technology, an instant auto-recognition system of the RTSX-A connected to the PTT or LTT.

Connect With A:



### PTT

Ability to document and save torque readings.  
 Ideal for SPC testing and ISO testing.  
 See Page 01.4



### RTSX-A CABLE

Item #072000

For connecting to PTT or LTT

### CONNECTION

#### Torque Output

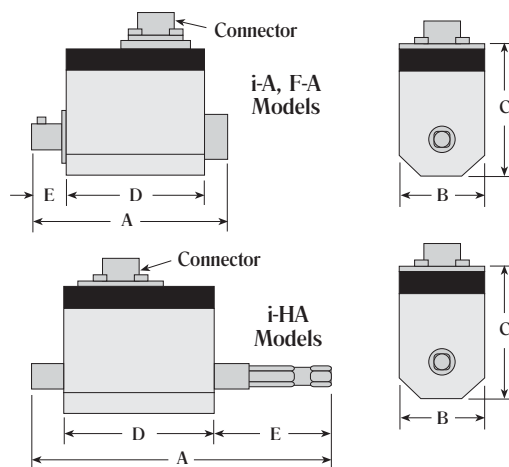
- A = Bridge Voltage (+)
- B = Bridge Voltage (-)
- C = Measured Signal (+)
- D = Measured Signal (-)
- E = Ground (Angle Voltage)
- F = +5V (Angle Voltage)

#### Angle Output

- G = Channel A (Load)
- H = Channel B (Lag)
- I = N/A
- K = 100% Control (Full Scale)

### DIMENSIONS

Model	A	B	C	D	E
RTSX10i-HA	101	28	52	58	28
RTSX10i-A	75	28	52	58	8.5
RTSX50i-HA	101	28	52	58	28
RTSX50i-A	75	28	52	58	8.5
RTSX100i-HA	101	28	52	58	28
RTSX100i-A	75	28	52	58	8.5
RTSX200i-HA	101	28	52	58	28
RTSX200i-A	75	28	52	58	8.5
RTSX50F-A	101	38	58	59	21.5
RTSX100F-A	106	38	58	59	26
RTSX400F-A	135	58	76	64	40
RTSX800F-A	177	73	90	73	57.5
RTSX1500F-A	165	110	126	87	39



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