

# RTSX

## Rotary Torque Sensor with ARCI Technology



Model	Item #	Torque Ranges	
		American	S.I.
RTSX10i-H	170200	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX10i	170201	1 - 10 lbf.in	11.3 - 113 cN.m
RTSX50i-H	170202	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX50i	170203	5 - 50 lbf.in	56.5 - 565 cN.m
RTSX100i-H	170204	10 - 100 lbf.in	113 - 1130 cN.m
RTSX100i	170205	10 - 100 lbf.in	113 - 1130 cN.m
RTSX200i-H	170206	20 - 200 lbf.in	226 - 2260 cN.m
RTSX200i	170207	20 - 200 lbf.in	226 - 2260 cN.m
RTSX50F	170208	5 - 50 lbf.ft	6.8 - 67.8 N.m
RTSX100F	170209	10 - 100 lbf.ft	13.6 - 135.6 N.m
RTSX400F	170210	40 - 400 lbf.ft	54.2 - 542.4 N.m
RTSX738F	170211	74 - 738 lbf.ft	100 - 1000 N.m
RTSX1500F	170212	150 - 1500 lbf.ft	203.3 - 2033 N.m

### DRIVE SIZE

Model	Input	Output
RTSX10i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX10i	1/4 Female/Square	1/4 Male/Square
RTSX50i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX50i	1/4 Female/Square	1/4 Male/Square
RTSX100i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX100i	1/4 Female/Square	1/4 Male/Square
RTSX200i-H	1/4 Male/Hex	1/4 Female/Hex
RTSX200i	3/8 Female/Square	3/8 Male/Square
RTSX50F	3/8 Female/Square	3/8 Male/Square
RTSX100F	1/2 Female/Square	1/2 Male/Square
RTSX400F	3/4 Female/Square	3/4 Male/Square
RTSX738F	1 Female/Square	1 Male/Square
RTSX1500F	1 1/2 Female/Square	1 1/2 Male Square

### KEY FEATURES

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

Use with most hand tools, power tools, or rotational measurement applications.

Connects between the power tool and the joint. Monitors actual torque being applied from the driver to the fastener.

Features "ARCI" technology, an instant auto-recognition system of the RTSX connected to the FTA-100, PTT or LTT.

Bi-directional.

### RTSX CABLES

#### Item #072005

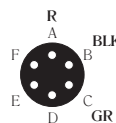
For connecting to FTA-100, PTT or LTT

#### Item #072000

For connecting FTA-100, PTT or LTT to RTSX1500F

### CONNECTION

- A = Excitation (+)
- B = Excitation (-)
- C = Output (-)
- D = Output (+)
- E = Shield
- F = 100% control (full scale)



### CERTIFIED

Supplied with Free ISO 17025 Certification of Calibration.



### WARNING!

Not recommended for impact wrenches.



### PLUG & PLAY



### NOTE!

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

### 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: 10V DC or AC RMS

Bridge Resistance: 350 Ohms

Usable Temperature Range: 41 - 122 °F

Mating Connector: Bendix PT06A-10-65 (SR)

Safe Overload: 125% of Rated Output

### DIMENSIONS

Model	A	B	C	D	E
RTSX10i-H	101	28	52	58	28
RTSX10i	75	28	52	58	8.5
RTSX50i-H	101	28	52	58	28
RTSX50i	75	28	52	58	8.5
RTSX100i-H	101	28	52	58	28
RTSX100i	75	28	52	58	8.5
RTSX200i-H	101	28	52	58	28
RTSX200i	74.5	38	58	44	18
RTSX50F	74.5	38	58	44	18
RTSX100F	79	38	58	44	22.5
RTSX400F	97	58	76	50	30
RTSX738F	112	73	90	57	34.5
RTSX1500F	165	110	126	87	44

