

# Model MRT2 Miniature Overload Protected Reaction Torque Transducer

Why the Interface model MRT2 Miniature Overload Protected Reaction Torque Transducer is the best in class:

- Capacities from 0.2 to 50 Nm (1.77 to 443 lbf-in)
- Overload protected to 3X capacity (0.2 and 2 Nm only)
- Proprietary Interface temperature compensated strain gages
- Small size - 1.6 in OD X 1.25 in
- Low deflection - high torsional stiffness



## SPECIFICATIONS

	MRT2P		MRT2		
Standard Capacities (Nm)	0.2	2	10	20	50
Equivalent (in-lb)	1.77	17.7	88.5	177	443

### ACCURACY – (MAX ERROR)

Nonlinearity-% FS	±0.10
Hysteresis-% FS	±0.10
Nonrepeatability-% RO	±0.05

### TEMPERATURE

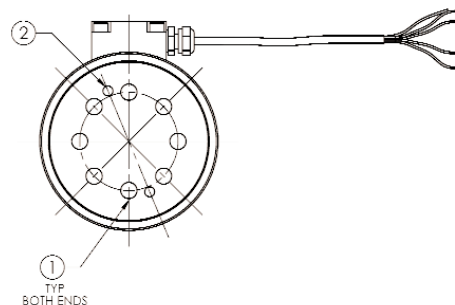
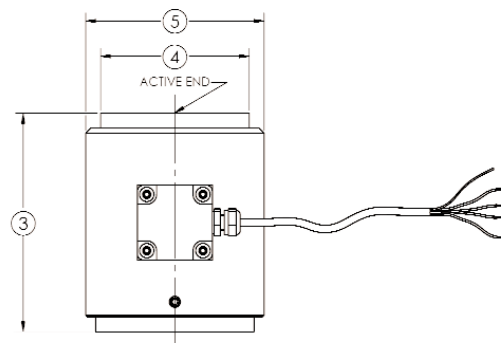
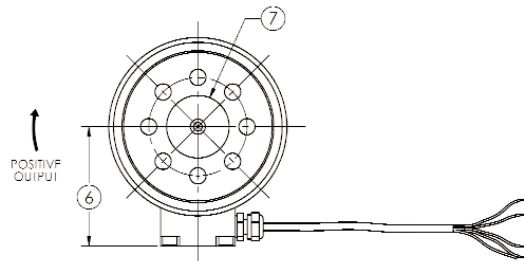
Effect on Zero-% /100F°	±0.20
Effect on Output-%RO/F°	±0.10
Operating Range-°F	-65 to 200
Compensated Range-°F	15 to 115

### ELECTRICAL

Output-mV/V	2.00 ±0.30
Excitation-VDC MAX	±1.0
Bridge Resistance-Ohms	700 ±7
Electrical Connection	5' Integral Cable

### MECHANICAL

	MRT2P		MRT2		
Safe Torsion-% RO	300	300	150	150	150
Deflection at Capacity-rad	0.01	0.007	0.003	0.003	0.002
Overhung Moment-%CAP MAX	100	100	100	100	100
Shear-N MAX	13	110	333	400	900
Material	Aluminum				



## DIMENSIONS

See Drawing	CAPACITY (Nm)
	0.2, 2, 10, 20, 50
	inch (mm)
①	M5 x 0.8 - 6H x 0.32 Deep 8 PL EX SP on 1.240 B.C.
②	.125 +.0005/- .0000 2 PL EQ SP on 1.375 B.C.
③	2.75
④	1.875
⑤	2.25
⑥	1.50
⑦	.7874 +.0008/- .0000