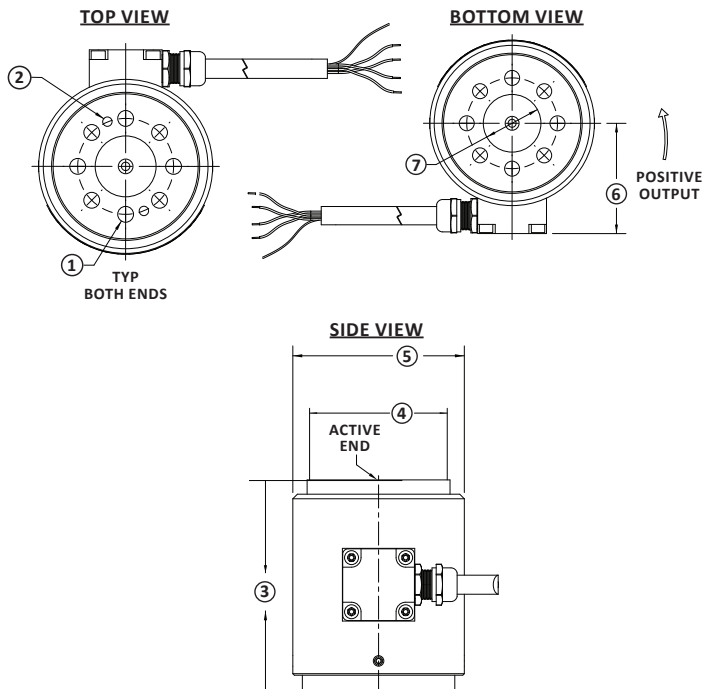


MRT2 MINIATURE REACTION TORQUE TRANSDUCER (U.S. & METRIC)

FEATURES & BENEFITS

- Capacities from 5 to 50 Nm (44 to 443 lbf-in)
- Proprietary Interface temperature compensated strain gages
- Small size - 70 x 60 mm (2.75 x 2.25 in)
- Excellent linearity & repeatability
- Low deflection - high torsional stiffness



DIMENSIONS

See Drawing	CAPACITY	
	Metric (Nm)	U.S. (lbf-in)
	5, 10, 20, 50	44.3, 88.5, 177, 443
	mm	in
(1)	M5x0.8 - 6H x 8.1 8 PL EQ SP on 31.50 B.C.	M5x0.8 - 6H x 0.32 8 PL EQ SP on 1.240 B.C.
(2)	Ø3.18 ^{+0.013/-0.000} 2 PL EQ SP on Ø34.93 B.C.	Ø0.125 ^{+0.0005/-0.0000} 2 PL EQ SP on Ø1.375 B.C.
(3)	69.85	2.75
(4)	47.625	1.875
(5)	57.15	2.25
(6)	38.1	1.50
(7)	Ø20.000 ^{+0.020/-0.000}	Ø0.7874 ^{+0.0008/-0.0000}

STANDARD CONFIGURATION



MODEL MRT2 MINIATURE REACTION (Shown)

SPECIFICATIONS

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 / 100F°		±0.10			
Compensated Range	°C	-9 to +46			
	°F	+15 to +115			
Operating Range	°C	-54 to +93			
	°F	-65 to +200			
ELECTRICAL					
Output – mV/V		2.00 ^{±0.30}			
Excitation – VDC MAX		20			
Bridge Resistance – Ohms		700 ± 7			
Electrical Connection – Integral Cable	m	1.5			
	ft	5			
MECHANICAL					
Safe torsion – %RO		150	150	150	150
Deflection at Capacity – rad		0.003	0.003	0.003	0.002
Overhung Moment – %CAP MAX		100	100	100	100
Shear – MAX	N	225	333	400	900
	lbf	50.6	74.9	89.9	202
Material		Aluminum			

* U.S. dimensions and capacities are provided for conversion only. Standard product will be sold in kN and Metric dimensions. U.S. capacities available upon special request and at an additional cost.