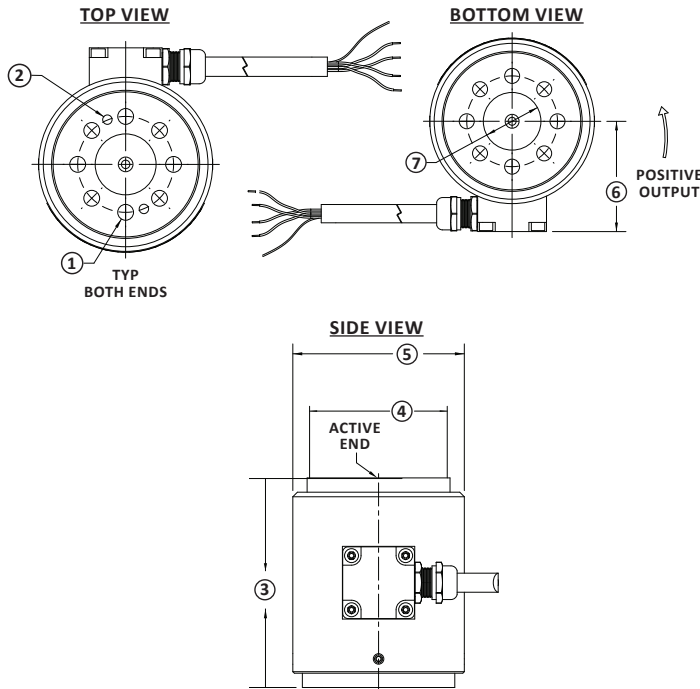


MRT2 MINIATURE REACTION TORQUE TRANSDUCER (U.S. & METRIC)

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 \downarrow 8.18 PL EQ SP on 31.50 B.C.	M5x0.8 - 6H x \downarrow 0.328 PL EQ SP on 1.240 B.C.
(2)	\varnothing 3.18 ^{+0.013/-0.000} 2 PL EQ SP on \varnothing 34.93 B.C.	\varnothing 0.125 ^{+0.0005/-0.0000} 2 PL EQ SP on \varnothing 1.375 B.C.
(3)	69.85	2.75
(4)	47.625	1.875
(5)	57.15	2.25
(6)	38.1	1.50
(7)	\varnothing 20.000 ^{+0.020/-0.000}	\varnothing 0.7874 ^{+0.0008/-0.0000}

International System of Units (SI) dimensions and capacities are provided for conversion only. Standard products have U.S. capacities and dimensions. SI capacities available upon special request and at an additional cost.

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 – % / deg	°F ±0.20			
Effect on Output – %RO / deg	°F ±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			