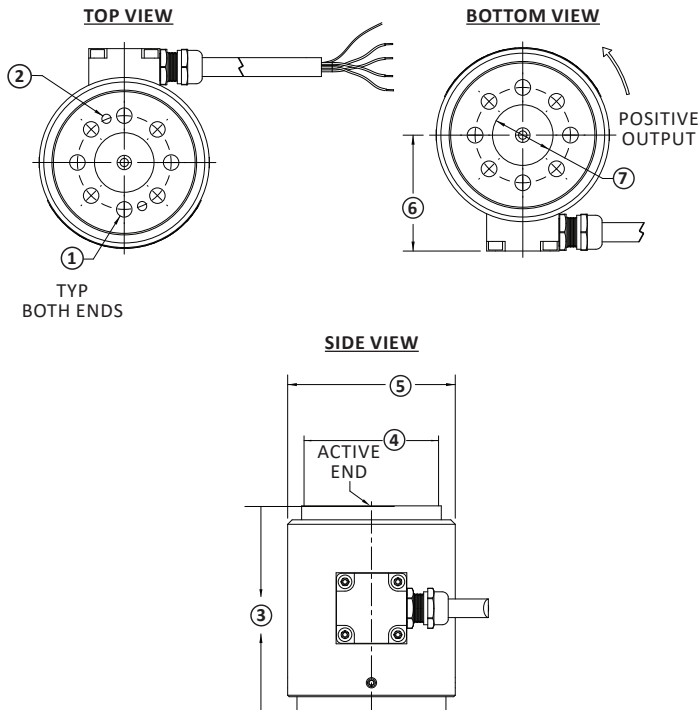


MRT2P MINIATURE OVERLOAD PROTECTED TORQUE TRANSDUCER (U.S. & METRIC)

FEATURES & BENEFITS

- Capacities from 0.2 to 2 Nm(1.77 to 17.7 lbf-in)
- 3x overload protection
- 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



STANDARD CONFIGURATION



MODEL MRT2P (Shown)

SPECIFICATIONS

ACCURACY – (MAX ERROR)		
Nonlinearity – %FS		± 0.10
Hysteresis – %FS		± 0.10
Nonrepeatability – %RO		± 0.05
TEMPERATURE		
Compensated Range	°C	-9 to +46
	°F	+15 to +115
Operating Range	°C	-54 to +93
	°F	-65 to +200
Effect on Zero – % / deg	°F	±0.20
Effect on Output – %RO / deg	°F	±0.10
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	300	300
Deflection at Capacity – rad	0.01	0.007
Overhung Moment – %CAP MAX	100	100
Shear MAX	N	13
	lbf	2.9
Material	Aluminum	

*Patent Pending

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.

DIMENSIONS

See Drawing	CAPACITY	
	Metric (Nm)	U.S. (lbf-in)
	0.2, 2	1.77, 17.7
	mm	in
(1)	ØM5x0.8 - 6H x ↓ 8.1 8 PL EQ SP on 31.50 B.C.	ØM5x0.8 - 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 34.93 B.C.	Ø0.125 ^{+0.0005/-0.0000} 2 PL EQ SP on 1.375 B.C.
(3)	6.985	0.275
(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}