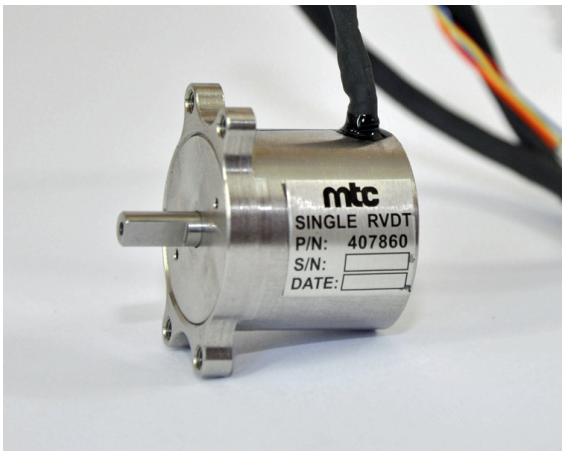
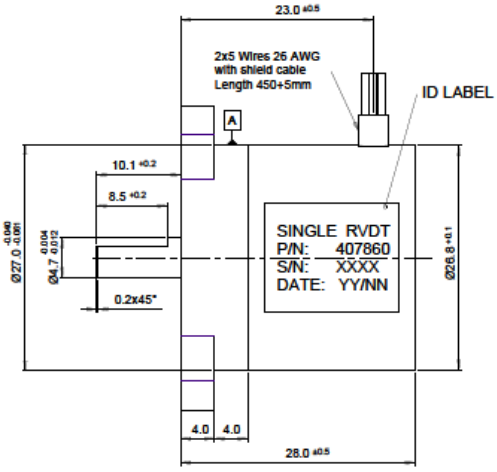
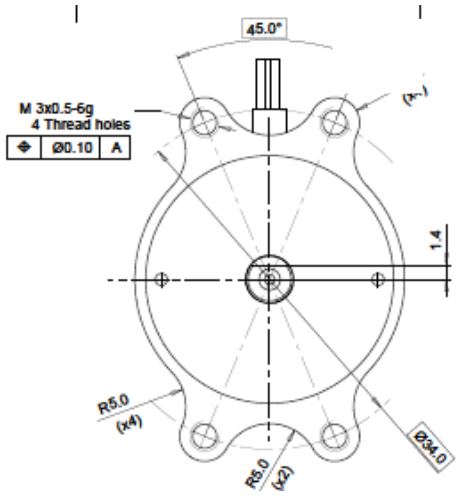
RVDT-116

Rotary Variable Differential Transformer

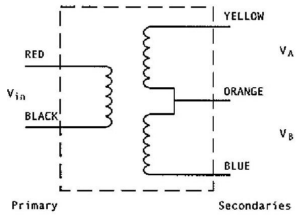
RVDT-116, for most applications where angle is measured, has output linearly proportional to angular position of shaft. Its rugged construction not only provides high performance and reliability, but also enhanced resistance to shocks / vibrations typical of industrial / defense environments. Mechanically able to rotate continually, RVDT-116 offers linear measurement up to ±16°, with linearity better than ±0.5% of Full Scale. Magnetically shielded, it offers essentially infinite resolution, limited only by signal condition. Requires AC voltage excitation to primary coil, produces AC voltage from secondary coil, proportional to shaft position. All materials and test methods are according to MIL-STD.







Wiring Diagram



Specification

Parameter	Unit	Value	Tolerance
Frequency	Hz	3200	±30
Excitation voltage	V (RMS)	7	±1%
Null voltage	mV	30	max
Scale factor	mV/deg.	140	± 2%
Accuracy	arc. min	± 21	max
Linearity	% FS	0.5	-
Operating range	deg.	± 15	-
Dielectric withstand (during 0.5 minutes)	µA at 250V AC	50	-
Insulation resistance	MΩ at 250V DC	100	-
Protection level	IP-65		

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