

## RVDT-2112

### RVDT - Dual

Dual **RVDT-2112** has Output linearly proportional to angular position of shaft. A rugged build provides high performance & reliability, enhanced resistance to shock/vibration, typical of Defense/Industrial environments. Mechanically able to rotate continuously, Dual **RVDT-2112** offers linear measurement up to  $\pm 30^\circ$ , with linearity better than  $\pm 0.5\%$  of Full Scale. 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 tests methods are according to MIL-STD.

#### Features:

- Rugged construction; Magnetically shielded;
- Linear measurement up to  $\pm 30^\circ$ .

#### Applications:

- Wherever angle is measured.

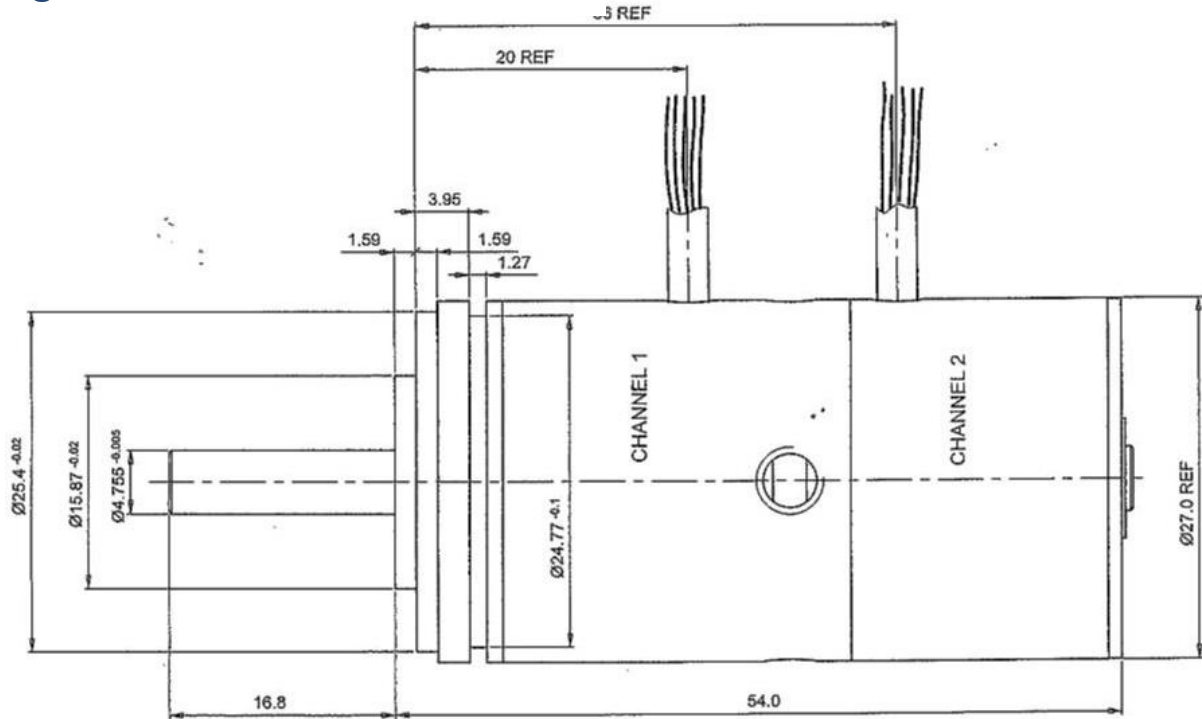


## Specifications (for each channel)

Parameters	Units	Values	Tolerances
Frequency	kHz	1 - 3	nominal
Excitation voltage	V AC p-p	8	-
Input current	mA (rms)	6	max
Gain ratio $SF = \frac{V_A - V_B}{V_A + V_B} \times \frac{1}{\theta}$	1/deg.	0.0225	$\pm 1\%$
Accuracy	arc.min	$\pm 24$	max (@ range $\pm 30^\circ$ )
Linearity	% FS	0.5	-
Breakaway torque	gr*cm	30	-
Dielectric withstand	$\mu A$ at 250V AC	50	during 1 minute
Insulation resistance	M $\Omega$ at 250V DC	100	-
Weight	Gr.	170	max.
Output shift between Channel 1 and Channel 2	deg.	$\pm 1$	max (@ range $\pm 30^\circ$ )

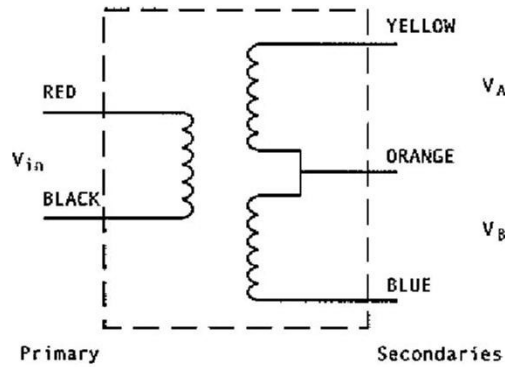
## RVDT-2112 (continued)

### Drawing



*All dimensions are in mm*

### Wiring Diagram



### For Additional Information

To learn more about Dual RVDT-2112 or other MTC products, contact MTC on **+972 4 998 7772** or email [marketing@mtcind.com](mailto:marketing@mtcind.com)