

Conductive Plastic Rotative Transducer Elements (KIT)



The RMF is a precision rotative motion transducer designed for easy mounting into your equipment.

FEATURES

- High Accuracy
- Long Life
- Easy Mounting

It is made of 2 parts:

- a sensing element in a housing
- a wiper

On request, their shapes and sizes can be custom-designed to fit your equipment.

ELECTRICAL SPECIFICATIONS	
Theoretical electrical angle (TEA = E)	AEA - 2°
Independent linearity over TEA on request	A ≤ ± 1%; B ≤ ± 0.5% C ≤ ± 0.25%; D ≤ ± 0.1% down to E ≤ ± 0.05%
Actual electrical angle (AEA)	340 ± 3° or 350 ± 2° according to the model
Total resistance R _T on request	1kΩ, 2kΩ, 5kΩ, 10kΩ other values
Total resistance tolerance at 20°C	± 20%
Repeatability	< 0.01%
Wiper current	1mA max. continuous, recommended: a few μA
Load impedance	1000 times R _T minimum
Insulation resistance	> 1000MΩ 500VDC
Dielectric strength	> 500VRMS at 50Hz

MECHANICAL SPECIFICATIONS	
Mechanical angle MA	360° continuous
Substrate	thermosetting resin
Termination on request	turrets wires, cables
Wiper	multi-finger precious metal alloy

PERFORMANCE	
Life	50 million of cycle
Temperature limits	– 30°C at + 85°C

EXAMPLES OF SPECIAL DESIGNS

ORDERING INFORMATION

KIT	RM	F	116	D	103	W...
SERIES	MODEL	TYPE	SIZE	LINEARITY	RESISTANCE	SPECIAL FEATURES
		F: Plastic S: Serigraphy		A: $\leq \pm 1\%$ B: $\leq \pm 0.5\%$ C: $\leq \pm 0.25\%$ D: $\leq \pm 0.1\%$ E: $\leq \pm 0.05\%$	First 2 digits are significant numbers Third indicates number of zeros	Code