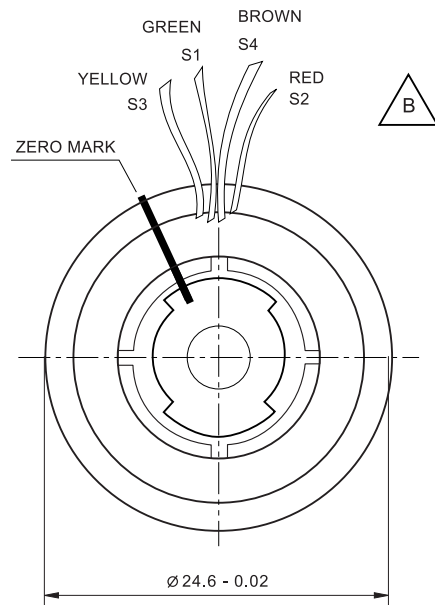
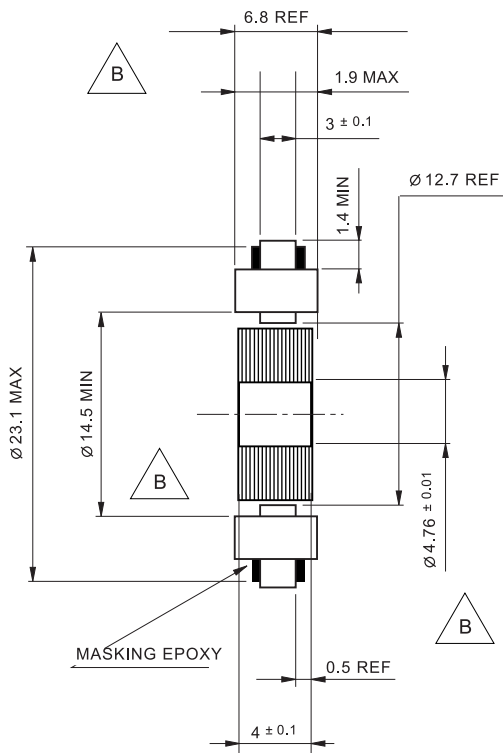


**Microsyn**

The linear inductive potentiometer is an inductive transducer with an unlimited resolution, with output voltage proportional to rotor rotation angle. The rotating part of the microsyn has no winding; the rotor, made of laminations of a proper shape, produces a variable coupling between stator primary and secondary winding.



## Specification

Parameter	Unit	Value	Tolerance
Primary winding	-	Stator	-
Input voltage	V	7	nom
Frequency	Hz	18000	nom
Output scale factor	mV/deg	140	± 10%
Angular range	deg	± 40	nom
Linearity error	%	0.3	-
Max. null voltage	mV	14	max
Input current	mA	22	± 5%
Power input	W	0.03	± 5%
Phase shift	deg	12	max
DC resistance:			
primary	Ohm	12.2	± 10%
secondary	Ohm	48	± 10%
Inductance:			
primary	mHy	2,5	± 20%
secondary	mHy	11	± 20%
Weight	g	20	-
Rotor inertia	g.cm <sup>2</sup>	0.51	-
Operating temperature	°C	-40 ÷ +85	-

## Insulation Resistance

Parameter	Unit	Value	Note
Insulation resistance:			
windings - case	MOhm	100	at 500 V DC
winding - winding	MOhm	10	at 250 V DC
Dielectric strength:			
windings - case	V AC	500	50mA max. within 1 min.
winding - winding	V AC	250	50mA max. within 1 min.