Precision Rotative Transducers, Conductive Plastic, Economic Series (ECO)

FEATURES

- Size 09
- Long Life
- Bush or Servo Mounting
- Comolded Terminals

Low cost industrial motion transducers, conductive plastic track.

SIZE	09			
MODEL	78 RS	78 RB	78 PS	78 PB

ELECTRICAL SPECIFICATIONS		
Theoretical electrical angle (TEA)	(AEA) - 3°	
Independent linearity (over TEA)	A ≤ ± 1%, on request: B ≤ ± 0.5% C ≤ ± 0.35%	A ≤ ± 2%
Actual electrical angle (AEA)	340° ± 5°	
Ohmic values (RT)	1 - 2 - 5 - 10kΩ, on request ± 10%	1 - 2 - 5 -10kΩ
Ohmic value tolerances at 20°C	±20%, on request other values	± 20%
Output smoothness	0.1%	
Maximum power rating at 70°C	0.3W	
Wiper current	recommended: a few µA - 1mA max. (continuous)	
Tap (current or voltage)	1: on request	NA
Resistance load on wiper	≥ 1000 x R_T	
End voltage	≤ 0.5%	
Insulation resistance	≥ 1000MΩ, 500VDC	
Dielectric strength	≥ 500VRMS, 50Hz	

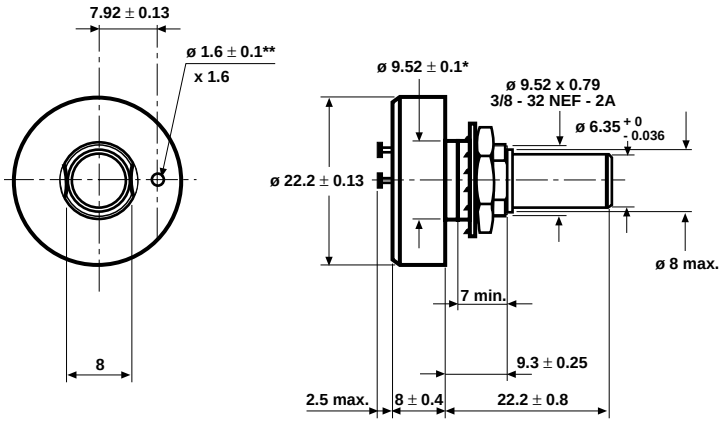
MECHANICAL SPECIFICATIONS				
Mechanical angle (MA)	360° continuous			
on request: stops	342° ± 5°			
Mounting type	servo	bushing	servo	bushing
Shaft guiding	sleeve bearings			
Shaft	stainless steel			
Option: Flat or screw driver slot on shaft	on request		NA	
Termination	turrets			
Wiper	precious metal multi-finger contact			
Starting torque (N.cm)	≤ 0.5			
Torque on stops (N.cm)	≥ 20			
Weight (g)	bushing 17g ± 3g		servo 12g ± 3g	

PERFORMANCE	
Life (10^6 cycles)	5 to 10
Temperature range	– 55°C, + 125°C
Climatic category	55 / 125 / 04
Speed rotation (RPM)	150
Sine vibration on 3 axes	15g from 10Hz to 2000Hz
Mechanical shocks on 3 axes	50g - 11ms - half sine

DIMENSIONS in millimeters, general tolerance ± 0.5mm

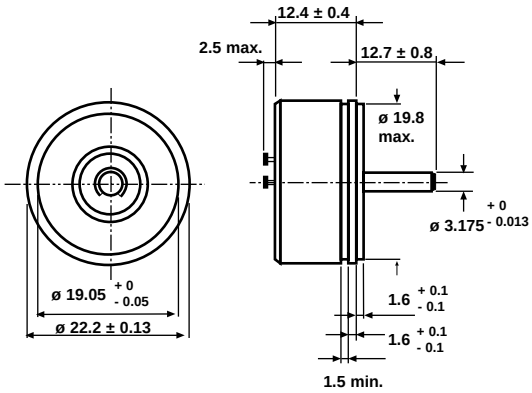
SIZE 09

78 PB
78 RB



SIZE 09

78 PS
78 RS

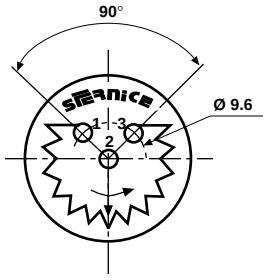


****On request : without Antirotation Pin** ***On request ø 10.3mm or 12.3mm**

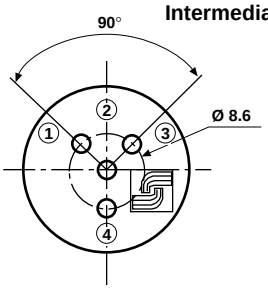
REAR VIEW DIMENSIONS in millimeters, general tolerance 0.5mm

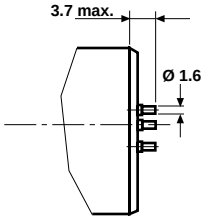
SIZE 09

STANDARD
3 TURRETS



SPECIAL
(4 TURRETS)
Intermediate tap on request





General Tolerance ± 0.5mm

ORDERING INFORMATION

ECO	78	P	S	M	A	T	103	W...
SERIES	MODEL	TYPE	FIXATION	MECHANICAL STOPS	LINEARITY	TAP	OHMIC VALUE	SPECIAL FEATURES
		P R	S: Servo B: Bushing	on request M	A: ± 1% or ± 2% B: ± 0.5% C: ± 0.35%	on request T: voltage U: current position to be specified	102: 1kΩ 202: 2kΩ 502: 5kΩ 103: 10kΩ	Special Feature Code Number