CONDUCTIVE PLASTIC PRECISION POTENTIOMETER POL 230

with ball bearing



The single-turn precision potentiometer with conductive plastic technology and a servo flange features a robust aluminum housing as well as ball bearing to protect it from high mechanical stress. The cable, wire or pin connection is sealed. The axis diameter can be selected from a range of 3-6.35 mm. Standard is \emptyset 3,165 mm. The POL 230 also features a long lifetime and good linearity.

FFATURES

Good linearitu

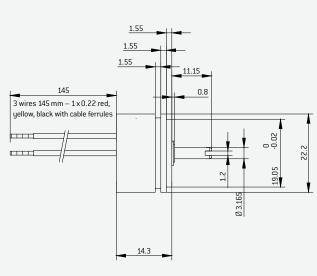
APPLICATIONS

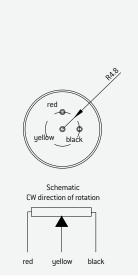
- High quality measuring systems
- Servo sustems
- Drives

PECIAL FEATURES.

- 2x ball bearing
- Diameter: 22 mm
- Lifetime: 20 million cycles, redundant versions
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ELECTRICAL SPECIFICATIONS				
Resistance range (Rn)	5kΩ*			
Resistance tolerance	± 20 %			
Electrical angle	340°*			
Independent linearity	± 2 %*			
Resolution	Analogue, almost infinite			
Maximum wiper current	5 mA in case of malfunction			
Typical supply voltage	3 – 30 VDC			
Wiper load	> 100 x Rn			
Insulation resistance	$10\mathrm{G}\Omega$ at $500\mathrm{VDC}$			
Dielectric strength	1000 VAC			

Mechanical and electrical characteristics are customizable. Specifications are subject to change without notice. * Others on request.

MECHANICAL SPECIFICATIONS					
Lifetime	20 million cycles				
Mechanical positioning range	360° continuous rotation				
Protection class	IP 63 according to DIN EN 60529				
Torque	< 0.2 Ncm				
Bearing	Ball bearing				
AMBIENT CONDITIONS					
Operating temperature	−25°C+85°C				
MATERIALS					
Housing	Anodised aluminium				
Axis	Stainless steel				
Connectors	Flex cable with end sleeve				
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SAMPLE ORDER					
Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection	Protection class
H060423003	P0L 230	5 K	340°	3 x wire	IP 63