

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 Ø 3,165 mm. The POL 230 also features a long lifetime and good linearity.

FEATURES

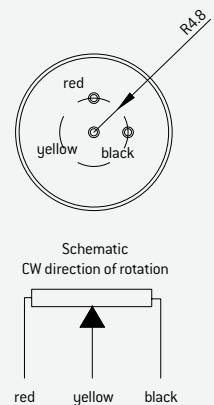
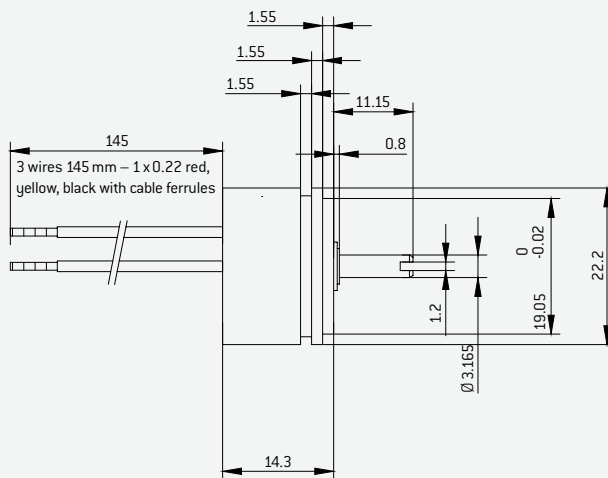
- Long lifetime
- Good linearity

APPLICATIONS

- High quality measuring systems
- Servo systems
- Drives

SPECIAL FEATURES:

- 2x ball bearing
- Diameter: 22 mm
- Lifetime: 20 million cycles, redundant versions, special versions possible



ELECTRICAL SPECIFICATIONS

Resistance range (Rn)	5 kΩ *
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 GΩ at 500 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
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MATERIALS

Housing	Anodised aluminium
Axis	Stainless steel
Connectors	Flex cable with end sleeve

SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection	Protection class
H060423003	POL 230	5 K	340°	3 x wire	IP 63