

CONDUCTIVE PLASTIC POTENTIOMETER POL 120



The Metallux single-turn potentiometer POL 120, with its robust design, is one of the smallest conductive plastic potentiometers ($\varnothing 13 \text{ mm}$) and features a long lifetime, a wire outlet and good linearity. The servo flange makes precision installation possible.

FEATURES

- Servo flange acc. to international standards
- Long lifetime

- Good linearity
- Size $\varnothing 13 \text{ mm}$

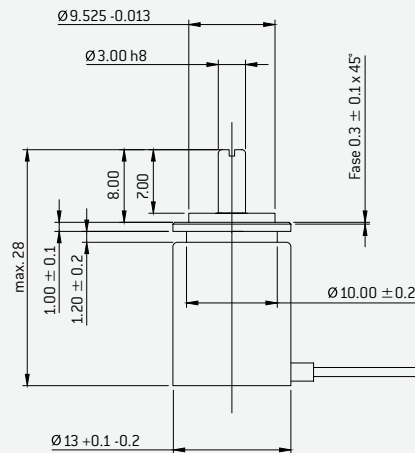
APPLICATIONS

- Valve controls
- Joysticks

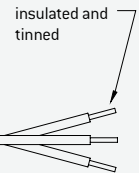
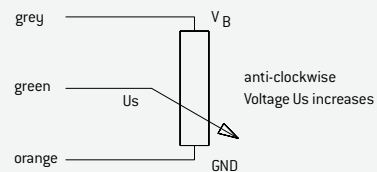
- Steering angle measurement
- Servo systems

SPECIAL FEATURES

- Diameter: 13 mm
- Lifetime: 3 million cycles
- Connection: Cable wires



Potentiometer connector assignments



ELECTRICAL SPECIFICATIONS

Resistance range (R_n)	10 k Ω *
Resistance tolerance	$\pm 20\%$
Electrical angle	308° *
Independent linearity	$\pm 2.5\%$
Load capacity	0.5 W at 70°C
Resolution	nearly infinite
Maximum wiper current	5 mA in case of malfunction
Wiper load	> 100 x R_n
Insulation resistance	10 G Ω 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	3 million cycles
Mechanical positioning range	Continuous rotation
Protection class	IP 65
Torque	< 0.7 Ncm
Bearings	Slide bearings

AMBIENT CONDITIONS

Operating temperature	-25°C ... +85°C
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MATERIAL

Housing	Brass (nickel plated)
Axis	Stainless steel
Connectors	Tinned cable wires

SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection	Protection class
E050200015	POL 120	10 K	308°	3 x wire	IP 65