CONDUCTIVE PLASTIC POTENTIOMETER POL 120



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

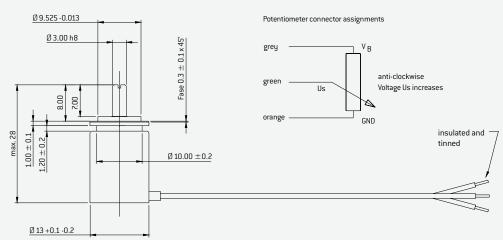
- Servo flange acc. to
- Long lifetime

- Size Ø 13 mm

- Steering angle

- Connection: Cable wires





ELECTRICAL SPECIFICATIONS	
Resistance range (Rn)	10 k Ω *
Resistance tolerance	± 20 %
Electrical angle	308°*
Independent linearity	± 2.5 %
Resolution	Analogue, almost infinite
Load capacity	0.5 W at 70°C
Maximum wiper current	5 mA in case of malfunction
Typical supply voltage	3 – 30 VDC
Wiper load	> 100 x Rn
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 according to DIN EN 60529			
Torque	< 0.7 Ncm			
Bearing	Slide bearing			
AMBIENT CONDITIONS				
Operating temperature	−25°C +85°C			
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	
E050200016	POL 120	10 K	308°	3 x wire	IP 65	