HALL POTENTIOMETER POH 120



The POH 120 is small and robust and features a freely programmable rotary angle. The measurement principle is via Hall effect as absolute measuring rotary sensor even after blackout. The POH series is available with a decoupled axis or integrated axis.

FFATURE

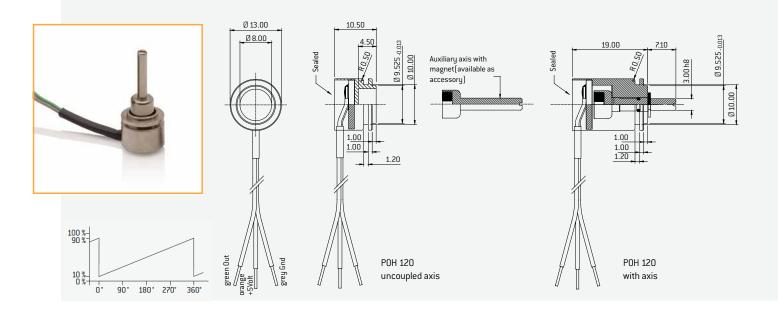
APPLICATION

Long lifetime

- Size **Ø** 13 mm
- Valve control
 - Jouetieke
- Steering angle
- Servo system

SPECIAL FEATURES

- Hall senso
- Compensation for play and tolerand by decoupled axis possible
- Freely programmable angles possible
- Load free drive when axis is uncoupled



ELECTRICAL SPECIFICATIONS			
Measuring range	0 – 360° programmable		
Independent linearity	± 0.5 %		
Resolution	12 bit < 0.1°		
Supply voltage (Vs)	5 (± 10 %) VDC		
Output signal	10 % 90 % of Vs		
Current consumption without load (typical)	18 mA		
Min. ohmic load at output	10 k0hm		
Max. capacitive load at output	10 nF		
Electrical connection	Tinned cable wires		
Operating temperature	−40°C+85°C*		

MECHANICAL SPECIFICATIONS				
Mechanical positioning range	360° continuous rotation			
Bearing	Slide bearing / uncoupled load free			
Min. lifetime (mechanical)	200 million cycles			
Protection class	IP 65 with axis / IP 67 uncoupled load free (according to DIN EN 60529)			
MATERIALS				
Housing material	Stainless steel			
Axis material	Brass (nickel plated)			
AMBIENT CONDITIONS				
Operating temperature	−40°C+85°C*			
Mechanical and electrical characteristics are customizable. Specifications are subject to change without notice. * Others on request.				

SAMPLE ORDER				
	Part no.	Type series	Elect. measuring range	Elect. connection
POH 120 with axis	E050200120	РОН	360°	Wire connection
POH 120 with uncoupled axis	E050200121	POH	360°	Wire connection