



LIPS[®] 113 SLIM-LINE LINEAR POSITION SENSOR



- Position Feedback for Industrial & Scientific Applications
- Non-Contacting Inductive Technology
- Robust, Durable and Reliable
- Compact Overall Length
- Up to 300mm Travel
- 19mm Diameter Body
- Suitable for Harsh Environments
- DC Supply – DC Analogue Output - Voltage
- Excellent Accuracy and Stability
- IP67 Sealing



SPECIFICATION

Travel	
Electrical	10mm to 300mm
Factory set range.	
Independent Linearity	$\pm 0.25\%$ @ 20°C
Temperature Coefficients	$\pm 0.01\%/^{\circ}\text{C}$ Gain & $\pm 0.01\%/\text{FS}/^{\circ}\text{C}$ Offset
Typical Overall Accuracy	$\pm 0.5\%$ / FSO
Frequency Response	> 10 KHz (-3dB)
Resolution	Infinite
Noise	< 0.02% FSO
Power Supply and Output Options	
Input	Output
+ 5 V dc ± 0.5 V	0.5 – 4.5 V dc ratiometric
Supply Current	10 mA Typical, 20 mA max.
Environmental	
Temperature Limits	
Operating	-40 to +125°C
Storage	-50 to +125°C
Sealing	IP67
EMC Performance	EN 61000-6-2 EN 61000-6-3
Vibration	IEC 68-2-6: 10g
Shock	IEC 68-2-29: 40 g
MTBF	450,000 hrs 40°C Gf

The P113 LIPS[®] is an affordable, durable, high accuracy Linear Inductive Position Sensor for industrial and scientific feedback applications. P113 sensors are; available with calibrated travel from 10mm up to 300mm, easy to install and set up and provide a linear output characteristic with displacement. Using Positek's PIPS[®] technology, simple inductive coils with advanced ASIC electronic technology, the sensors DC analogue output signal represents absolute position and is available immediately on power up. Overall performance, repeatability and stability are outstanding over a wide temperature range; it is very compact, responsive over almost its full length. With excellent frequency response and no wearing contacts they have major advantages over LVDT or potentiometer based devices. The sensors have a robust stainless steel body and push rod, body mounting options include M5 male thread, M5 rod eye or body clamps. The push rod can be supplied free or captive, with male M5 thread or M5 rod eye. Sealing between IP65 and IP67 depending on selected cable or connector options and full EMC protection built in. Enquires regarding modifications for custom applications are welcome, please contact us with your requirements.

