

# LIPS 101 STAND ALONE LINEAR POSITION SENSOR

- **NON-CONTACTING INDUCTIVE TECHNOLOGY**
- **VERY ROBUST & DURABLE**
- **DC SUPPLY - DC ANALOGUE OUTPUT**
- **50MM TO 600MM TRAVEL**
- **VOLTAGE OR CURRENT OUTPUT OPTIONS**
- **COMPACT OVERALL LENGTH**
- **IP67 SEALING AVAILABLE**



## SPECIFICATION

<b>Travel - Electrical</b>	From 50mm to 600mm
Factory set range with adjustable zero and span option	
<b>Independent Linearity</b>	< $\pm 0.25\%$ at 20°C
<b>Temperature Coefficient</b>	< $\pm 0.01\%$ /°C
<b>Overall Accuracy</b>	< $\pm 0.5\%$
<b>Frequency Response</b>	> 500 Hz (-3dB)
<b>Resolution</b>	Infinite
<b>Noise</b>	< 0.1%

## POWER SUPPLY AND OUTPUT OPTIONS

<b>Input</b>	<b>Output</b>
5V dc $\pm 1V$	0.5 to 4.5V dc Ratiometric
$\pm 15V$ dc	$\pm 5V$ dc or $\pm 10V$ dc
16 to 28V dc	0.5 to 9.5V dc
18 to 28V dc	4 to 20mA (2 wire)
10 to 28V dc	4 to 20mA (3 wire sink)
16 to 28V dc	4 to 20mA (3 wire source)
<b>Supply Current</b>	10mA Typical, 20mA max.

## ENVIRONMENTAL

<b>Temperature Limits</b>	
Operating	-40° to +125°C (5V only) -20° to +85°C
Storage	-40° to +125°C
<b>Sealing</b>	IP65/IP67 depending on connector / cable
<b>EMC Performance</b>	IEC 801 EN50082-2 IEC 801 EN50081-1
<b>Vibration</b>	IEC 68-2-6: 10g
<b>Shock</b>	IEC 68-2-29: 40g
<b>MTBF</b>	450,000 hrs 40°C GF

The **LIPS P101** is a durable, accurate Linear Inductive Position Sensor for industrial and scientific feedback applications. The sensor uses Positek's PIPS technology, with simple inductive coils and advanced ASIC electronics. It provides a DC analogue output signal and is easy to install without needing a separate interface card.

The sensor provides a linear output characteristic with displacement and has several advantages over an LVDT or potentiometer. It is short, accurate, very robust and simple to use.

A range of electrical I/O options are available including 4-20mA current outputs. Overall performance is outstanding over a wide temperature range and the output has good frequency response. Full EMC protection is built in.

The sensors have a rugged stainless steel body and target rod. The rod can be supplied as a free assembly, with a rod end, or a ball end, and can be sprung loaded. The body may be supported by a rod end or by a clamp. The sensors are sealed to IP65 or IP67. Special sensor designs can be produced to suit customer specifications.

VD We reserve the right to change the specification without notice

