

## Linear Potentiometer LP 100

The LP 100 is a linear potentiometer which is designed to measure the relative position of two points e.g. the gear position, throttle position or suspension movement.

Its operating mode is based on the linear tape potentiometer principle where the distance travelled between the moving end to the wiper is proportional to the resistance between them.

The advantage of this LP is its precise and compact design with an anodised aluminium cylindrical housing, low power consumption and infinite resolution.



Application	
Application	0 ... 100 mm
Temperature range	-30 ... 100 °C
Max. vibration	126 m/s <sup>2</sup> @ 10 ... 12kHz

Electrical Data	
Power supply	5 V
Power supply max.	74 V
Nominal resistance	4 kΩ
Resistance tolerance	10 %
Non-linearity	0.15 %

Mechanical Data	
Weight w/o cable	85 g
Min. length	284.6 mm
Mounting	2 x M5
Tightening torque	10 Nm
Protection	IP66
Max. shaft velocity	10 m/sec

Characteristic	
Signal output	0.5 ... 99.5 %

Application Hint	
The LP 100 can be connected directly with most electronic control units and data logging systems.	
Ball joints at shaft end and case.	
Each mounting orientation is possible.	
Please find further application hints in the offer drawing ( <a href="http://www.bosch-motorsport.com">http://www.bosch-motorsport.com</a> ).	

**Connectors and Cables**

Connector	ASL 6-06-05PA-HE
Connector loom	ASL 0-06-05SA-HE
Pin 1	Us
Pin 2	Gnd
Pin 3	Sig
Pin 4	-
Pin 5	-
Sleeve	DR-25
Cable size	AWG 24
Cable length L	15 ... 25 cm

Various motorsports and automotive connectors on request.

Please specify the requested cable length with your order.

**Part Number**

LP 100 **B 261 209 857-01**

