

Linear Potentiometer LP 100F

The LP 100F 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 compact and lightweight design together with its wider operating temperature range.



Application	
Application	0 ... 100 mm
Temperature range	-30 ... 85 °C
Max. vibration	126 m/s ² @ 10 ... 12 kHz

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

Connectors and Cables	
Connector	KPSE 6E8-33P-DN-A34
Connector loom	KPSE 0E8-33S-DN
Pin 1	Us
Pin 2	Gnd
Pin 3	Sig
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.	

Mechanical Data	
Weight w/o cable	85 g
Min. length	248.6 mm
Mounting	2 x M5
Tightening torque	10 Nm
Protection	IP65
Max. shaft velocity	10 m/sec

Characteristic	
Signal output	0.5 ... 99.5 %

Application Hint

The LP 100F can be connected directly to most electronic control units and data logging systems. Each mounting orientation is possible.

Please find further application hints in the offer drawing (<http://www.bosch-motorsport.com>).

Part Number	
LP 100F	B 261 209 853-01

