Linear Potentiometer LP 50 twin

The LP 50 twin is a linear potentiometer which is designed to measure the relative position of two point e.g. the gear position, throttle position or suspension movement and for use in electronic throttle control systems.

It works base on the linear tape potentiometer principle where the distance traveled 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 ... 50 mm
Temperature range	-30 ... 100 °C

Electrical Data	
Power supply	5 V
Power supply max.	< 45 V
Nominal resistance	2 kΩ
Resistance tolerance	10 %
Non-linearity	0.25 %

Mechanical Data	
Weight w/o cable	66 g
Min. length	120 mm
Mounting	Ø 3 mm
Protection	IP66
Max. shaft velocity	< 10 m/sec

Connectors and Cables	
Connector	AS 6-07-35PN
Connector loom	AS 0-07-35SN
Pin 1	Us 1
Pin 2	Gnd 1
Pin 3	Sig 1
Pin 4	Us 2
Pin 5	Gnd 2
Pin 6	Sig 2
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.	

Application Hint
The LP 50 twin can be connected directly to most electronic control units and data logging systems.
Application where redundant signals are necessary to ensure system runs failsafe.
Each mounting orientation is possible.
Please find further application hints in the offer drawing (http://www.bosch-motorsport.com).

Part Number	
LP 50 twin	**B 261 209 859-01**