Linear Potentiometer LP 50

The LP 50 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.

The operating mode of this sensor 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 ... 50 mm
Temperature range	-40 ... 105 °C
Storage temperature range	-55 ... 125 °C
Max. vibration	100 m/s² @ 10 ... 500 Hz

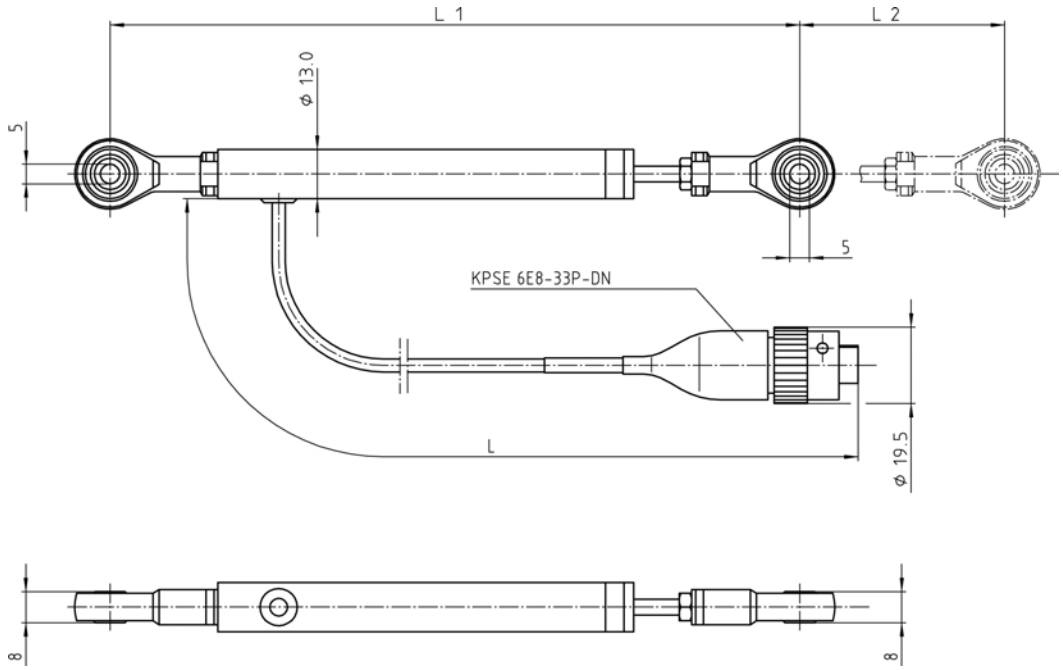
Mechanical Data	
Weight w/o cable	27 g
Min. length	172 mm
Mounting	2 x M5
Tightening torque	10 Nm
Protection	IP64
Max. shaft velocity	1.5 m/sec

Electrical Data	
Power supply	5 V
Power supply max.	42 V
Nominal resistance	4.7 kΩ
Resistance tolerance	20 %
Non-linearity	0.25 %
Max. current	1 mA

Connectors and Cables	
Connector	KPSE 6E8-33P-DN
Mating connector	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 motorsport and automotive connectors on request.	
Please specify the requested cable length with your order.	

Application Hint
The LP 50 can be connected directly to the 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 (http://www.bosch-motorsport.com).

Part Number	
LP 50	**B 261 209 133-01**


L 1
L 2
ϕ 13.0
5
5
KPSE 6E8-33P-DN
L
ϕ 19.5
8
8