

Rotary Potentiometer RP 55

This sensor is designed to measure rotational movement, e.g. spring travel.

A rotation moves an internal slider (wiper) on a resistive element which is supplied with voltage. Thus a voltage proportional to the angle can be measured. The housing is made of shock resistant aluminium. The internals are made of high temperature resistant synthetic material.

The main benefit of this sensor is the special way of mounting with a quill shaft.



Application	
Application	0 ... 55°
Operating temperature range	-25 ... 75 °C
Storage temperature range	-25 ... 105 °C
Max. vibration	100 m/s ² @ 30 ... 500 Hz

Electrical Data	
Power supply Us	5 V
Total resistance	5 kΩ
Current Is	1 μA
Max. allowable contact current	10 mA

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	16 ... 30 cm
Various motorsports and automotive connectors are available on request.	
Please specify the requested cable length with your order.	

Mechanical Data	
Weight w/o cable	59 g
Protection class	IP63
Mounting	d _i 6 mm
Lifetime	5 x 10 ⁶ rotations
Housing	aluminium alloy

Characteristic	
Temp. coefficient	50 ppm/°K
Direction of rotation	Anti-Clockwise
Redundancy	No

Application Hint	
The products of the RP series can be connected directly to most control units.	
The sensor has no internal mechanical stops.	
Each mounting orientation is possible.	
The sensor meets all EMV, EMC and ESD automotive standards.	
Please find further application hints in the offer drawing (http://www.bosch-motorsport.com).	
Both rotation directions and other rotation angles are available on request.	
Free download of the sensor configuration file (*.sdf) for the Bosch Data Logging System (http://www.bosch-motorsport.com).	

Part Number	
RP 55	B 261 209 578-01

