

Rotary Potentiometer RP 86

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

A throttle rotation moves an internal slider (wiper) on a resistive element which is supplied with voltage. Thus voltage proportional to the angle can be measured. The housing and the bearings are made of high temperature resistant plastic.

The main benefit of this sensor is the combination of a high quality production part and extremely short dimensions.



Application	
Application	0 ... 86°
Angle between internal mechanical stops	95°
Operating temperature range	-40 ... 130 °C
Max. vibration	700 m/s ²

Electrical Data	
Power supply U_s	5 V
Max. power supply	42 V
Total resistance	2 kΩ ±20 %
Current I_s	18 μA

Connectors and Cables	
Connector	Bosch Compact
Connector loom	D 261 205 334
Pin 1	U_s
Pin 2	Sig
Pin 3	Gnd
Various motorsports and automotive connectors on request.	
Various cable options are available on request.	
Please specify the requested cable length with your order.	

Mechanical Data	
Weight w/o cable	26 g
Mounting	2 x M4
Lifetime	2 x 10 ⁶ rotations
Housing	synthetic material

Characteristic	
Max. rotation speed	120 min ⁻¹
Direction of rotation	Anti-Clockwise
Both rotation directions are available on request.	
Redundancy	No

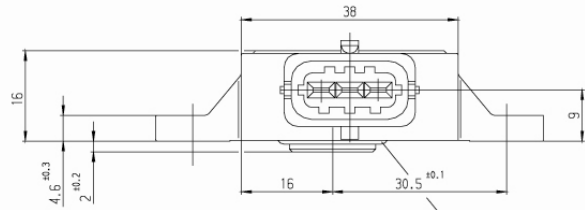
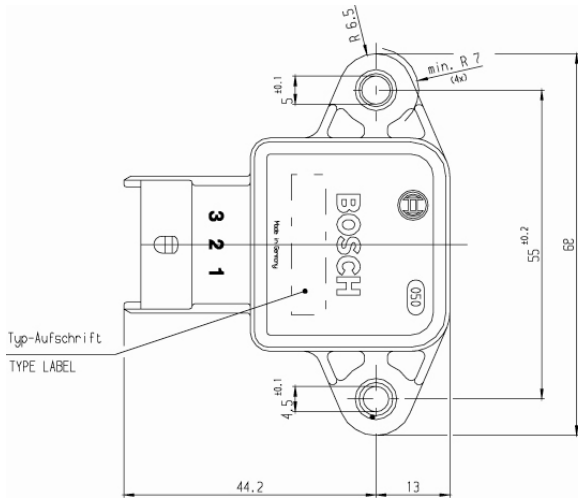
Application Hint	
The products of the RP series can be connected directly to most control units.	
The sensor has an internal mechanical stop and a Ø 14.65x2 sealing.	
Each mounting orientation is possible.	
The sensor meets all EMV, EMC and ESD automotive standards.	
Please find further application hints in the offer drawing (http://www.bosch-motorsport.com).	
Both rotation directions and other rotation angles 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 86

0 280 122 016



Runddichtung $\varnothing 14.65 \pm 0.2 \times 2 \pm 0.1$
Werkst.: HNBR 70 Shore A, grün
O-RING SEAL
MAT.: HNBR 70 SHORE A, GREEN