

# Bosch Motorsport Throttle Position Sensor RP86



**Brand:** Bosch Motorsport

**Product Code:** BOSRP86

**Availability:** In Stock

**Weight:** 0.05kg

**Dimensions:** 5.00cm x 5.00cm x 5.00cm

**Price: \$275.00**

## Short Description

Used on many Formula 3 engines as well as some Porsche Cup Car models (cable throttle). Equivalent to Bosch production number 0280122016.

## Description

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

## Specifications

### Application

Application 0 to 86°

Angle between internal mechanical stops 95°

Operating temperature range -40 to 130°C

Max. vibration 700 m/s<sup>2</sup>

## **Technical Specifications**

### **Mechanical Data**

Weight w/o wire 26 g

Mounting 2 x M4

Lifetime 2 x 10<sup>6</sup> rotations

Housing Synthetic material

### **Electrical Data**

Power supply  $I_s$  5VDC

Max. power supply 42 V

Total resistance 2 k $\Omega$   $\pm$ 20 %

Current  $I_s$  18  $\mu$ A

### **Characteristic**

Max. rotation speed 120 min<sup>-1</sup>

Direction of rotation Anti-clockwise

Both rotation directions are available on request.

### **Connectors and Wires**

Mating connector 3-pole Compact D 261 205 334-01

Pin 1 VREF 5VDC

Pin 2 Ground

Pin 3 Signal

## OEM Equivalent

Porsche 996 606 116 00

Bosch 0280122016

### Installation Notes

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. Both rotation directions and other rotation angles available on request. Please find further application hints in the offer drawing and free download of the sensor configuration file (\*.sdf) for the Bosch Data Logging System at our homepage.

### Safety Note

The sensor is not intended to be used for safety related applications without appropriate measures for signal validation in the application system.

### Specification

Make	
Porsche	Cup Car

### Product Gallery

