

AiM Infotech

Exhaust gas power valve position sensor for kart

Release 1.03



This datasheet shows how to install the exhaust gas power valve position sensor for kart.

1

Introduction

AiM devices can measure the exhaust gas power valve travel using this sensor. It can measure up to 20mm travel and allows to monitor at which RPM value the valve opens/closes showing all intermediate values too. Close valve position is auto-calibrated by the sensor.

2

Kits and spare parts

Exhaust gas power valve sensor cable ends with a 4 pins plastic Binder connector. The sensor can be connected to both MyChron Expansion and eBox Extreme, which has metallic connectors. This is why you need to purchase the sensor with the proper extension cable. Available kits are:

kit for connection with MyChron Expansion: part number **X08SPWVV0R**. It includes:

- 1 sensor with 20 cm cable
- 1 cover
- 1 150 cm extension cable for MyChron Expansion



kit for connection with eBox Extreme: part number **X08PWVVRX**. It includes:

- 1 sensor with 20 cm cable
- 1 cover
- 1 150 cm extension cable for eBox Extreme



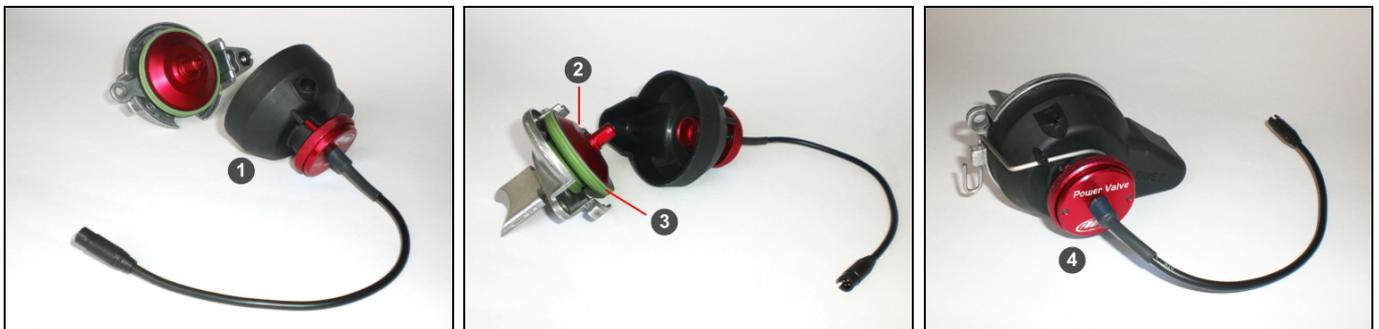
Extension cable can also be bought separately as spare parts. Their part numbers are:

- 150 cm MyChron Expansion extension cable: **V02PCB15BTXG**
- 150 cm eBox Extreme extension cable: **V02552930**

2.1 Installation notes

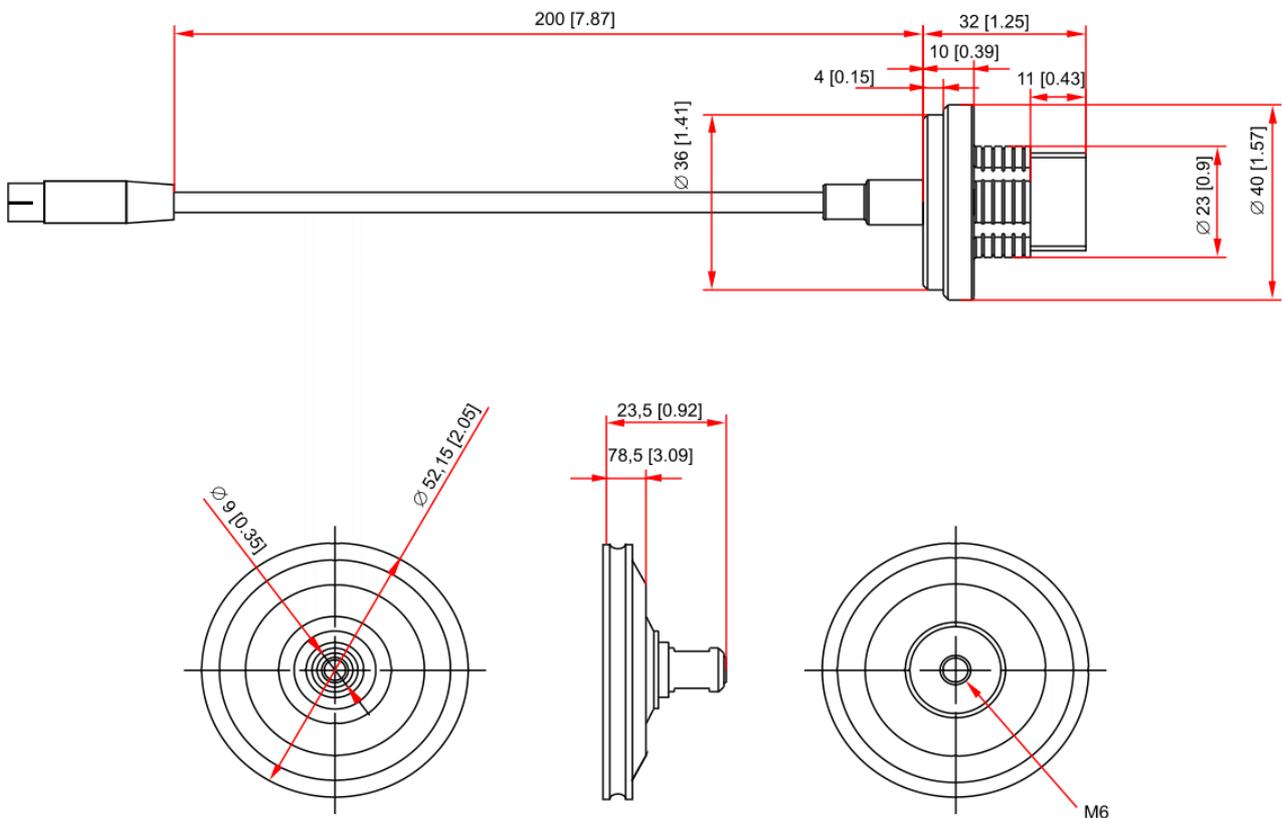
The exhaust gas power valve position sensor is to be installed on the valve; the images below help you to perform the operation.

- open the valve cover (1) and remove the kart stock black cover (in the image it has already been removed)
- screw AiM sensor cover (2) ensuring the membrane (3) is well adherent
- replace the cover
- remove the pre-load iron ring and screw AiM iron ring with the integrated sensor (4)

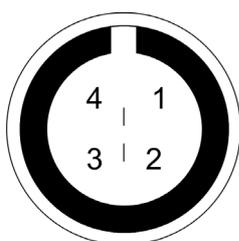


3 Dimensions, pinout and technical characteristics

The drawing here below shows sensor and cover dimensions in millimeters [inches].



The sensor is sold with a 20 cm cable ending with a 4 pins Binder 719 male connector. The image here below shows the connector from solder termination side and its pinout.



Binder connector pin	Function
1	Analog signal 0-5 V
2	GND
3	Not connected
4	V reference (4.5V)