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AiM Infotech

Kart brake/accelerator pedal position sensor

Release 1.06



This datasheet shows where and how to install the kart brake/accelerator pedal position sensor.

1

Introduction

AiM devices can measure the distance between two points using a kart brake/accelerator pedal position sensor. It gives an extremely precise indication of the pedal position, measures its travel and shows all values in percentage in a 0 e 100%. range

2

Kits and spare parts

The cable of kart brake/accelerator pedal position sensor ends with a 4 pins plastic Binder connector. It can be connected to ACC3, MyChron Expansion and eBox Extreme (the last two are out of production), which have metal connectors. This is why you need to purchase it with the correct extension cable. Available kits are:

kit for connection with ACC3: part number

X05SNAFME0. It includes:

- 1 sensor (1)
 - 1 – 150 cm extension cable (2)
- 1 bracket kit (3) including 1 magnetic bracket 1 "L" bracket, 2 washers, 1 M6x16 Allen screw, 1 nut.



kit for connection with MyChron Expansion: part number **X05SNAFME0**. It includes:

- 1 sensor (1)
- 1 – 100 cm extension cable (2)
- 1 bracket kit (3) including 1 magnetic bracket, 1 "L" bracket, 2 washers, 1 M6x16 Allen screw, 1 nut



kit for connection with eBox Extreme: part number **X05SNAFEE0**. It includes:

- 1 sensor (1)
- 1 – 100 cm extension cable (2)
- 1 bracket kit (3) including 1 magnetic bracket, 1 "L" bracket, 2 washers, 1 M6x16 Allen screw, 1 nut



All kit components can be bought also as spare parts. Their part numbers are:

- Bracket kit: **DNKTKSSAF00** including:
 - 1 magnetic bracket
 - 1 "L" bracket
 - 2 washers
 - 1 M6x16 Allen screw
 - 1 nut

- 100 cm extension cable for ACC3:
- 100 cm extension cable for MyChron Expansion:

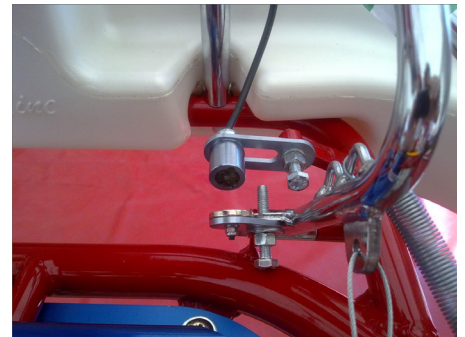
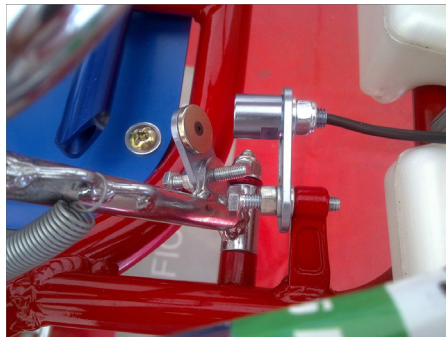
V02PCB10B
V02PCB10BTXG

2.1

Installation notes

The sensor has to be installed on the pedal as shown in the images below.

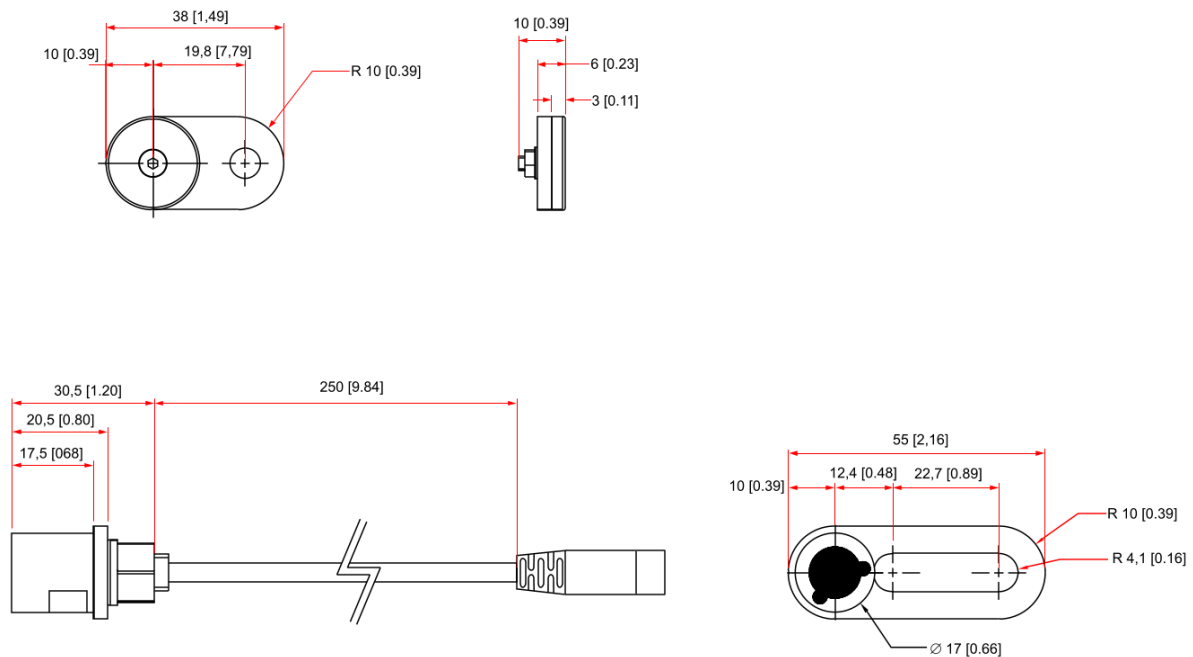
Please install the sensor so that the distance between magnet and sensor stays in a 5 – 40 mm range.



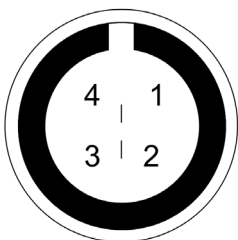
3

Dimensions and pinout

The drawing below shows the sensors dimensions in millimeters [inches].



The sensor is sold with a 25 cm cable ending with a 4 pins Binder 719 male connector. The image here below shows its pinout from solder termination view.



Binder connector pin

- 1
- 2
- 3
- 4

Function

- Analog signal 0-5 V
- GND
- Not connected
- V reference (4.5V)