

Pin Assignment

➔ Connect the open cable end in accordance with the color coding.

Pin ¹	Color ²	Description
1	White	Output channel 2
2	Brown	GND (Output)
3	Green	Output channel 3
4	Yellow	RS485+
5	Gray	Output channel 1
6	Black/pink	GND (Supply)
7	Blue	RS485-
8	Red	Supply+ ³

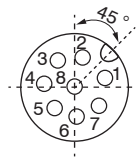


Fig. 3 View of solder pin side, 8-pin, A-coded, female connector

- 1) - SA - Connector
- 2) PCx/8-M12 Power supply and output cable, see operating instructions, Chap. A 1.
- 3) 5 - 32 VDC

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Current and Voltage Output

The sensor makes the acceleration value available as analog output variable either as current or voltage value on separate pins.

Three output channels can be configured independently with the following settings.

Each output channel can be operated in continuous operation mode or switching operation mode.

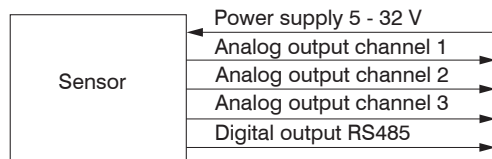


Fig. 4 Current and voltage output

Selection of measurement axis (x, y, z) at every channel possible
Off (zero output)
Continuous mode, current 4 - 20 mA
Continuous mode, voltage 0.5 - 4.5 V
Switching mode, voltage 0 - 5 V

Fig. 5 Operation modes of the analog output channels

Further Information

For further information about the system read the operating instructions. You will find this online at: <https://www.micro-epsilon.com/download-file/man--inertialSENSOR-ACC5703--en.pdf>

Decommissioning, Disposal

➔ Remove the power and output cable from the sensor.

Incorrect disposal may cause harm to the environment.

➔ Dispose of the device, its components and accessories, as well as the packaging materials in compliance with the applicable country-specific waste treatment and disposal regulations of the region of use.



Assembly Instructions
inertialSENSOR
 ACC5703



X9771392-A022123HDR

Warnings

Connect the power supply and the display/output device according to the safety regulations for electrical equipment.

- > Risk of injury
- > Damage to or destruction of the sensor.

The supply voltage must not exceed the specified limits.

- > Damage to or destruction of the sensor

No sharp or heavy objects should be allowed to affect the cables. Avoid folding the cables. Do not bend more tightly than the minimum bending radius of the cables.

- > Damage or destruction of the cable, failure of the measuring device

Do not crush the cable. Protect the sensor cable against damage.

- > Damage or destruction of the cable, failure of the measuring device, data loss

Ensure that the coupling nuts of the connectors are firmly tightened.

- > Damage or destruction of the cable, failure of the measuring device

Notes on the CE Marking

The following applies to the inertialSENSOR ACC5703:

- EU Directive 2014/30/EU
- EU Directive 2011/65/EU

The sensor fulfills the specification of the EMC requirements, if the instructions in the operating instructions are followed.

Proper Environment

- Protection class: ¹ IP 67
- Operating temperature: -40 ... +85 °C (-40 ... 185 °F)
- Storage temperature: -40 ... +85 °C (-40 ... +185 °F)
- Ambient pressure: Atmospheric pressure

1) With M12 connector

Installation and Assembly

For cable assembly, please observe the Chapter Warnings.

The sensor is fixed into place with the help of two through bores for M4 screws.

The sensor is mounted at the maneuverable component. The orientation of the measurement axes x, y, z is to be respected in relation to the expected moves of the component.

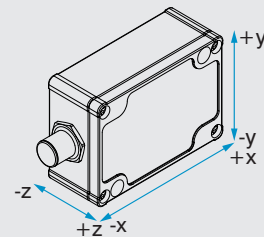


Fig. 1 Installation orientation, measurement axis

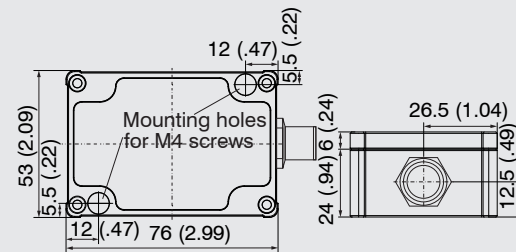


Fig. 2 Dimensional drawing, dimensions in mm (inches), not to scale