

Pin Assignment

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

Pin 1	Color 2	Description
1	White	Voltage output (angle)
2	Brown	GND (current output)
3	Green	Current output (angle)
4	Yellow	RS485+
5	Gray	GND (signal voltage output)
6	Black/ pink	GND (Supply)
7	Blue	RS485-
8	Red	Supply+ 3

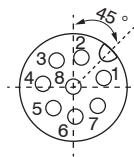


Fig. 4 View of solder pin side, 8-pin, A-coded, female connector

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

X9771391-A022123HDR

MICRO-EPSILON Eltrotec GmbH
Manfred-Wörner-Straße 101
73037 Göppingen / Germany
Tel. +49 (0) 7161 / 98872-300 • Fax +49 (0) 7161 / 98872-303
eltrotec@micro-epsilon.com • www.micro-epsilon.com

Your local contact: www.micro-epsilon.com/contact/worldwide/

Current and Voltage Output

The sensor makes the angular value available as analog output variable either as current or voltage value on separate pins, depending on the configuration of the sensor using the software tool of Micro-Epsilon.

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-INC5701--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
INC5701



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 apply to the inertialSENSOR INC5701:

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 with two M4 screws. After the sensor has been attached to the component, the position of rest (angular value = 0°) is freely adjustable with the software tool of Micro Epsilon.

From the position of rest the sensor measures an angle of up to 180° in each direction of rotation (clockwise and counterclockwise). The measurement range is shown in Figure below, see Fig. 1.

i To ensure most precise measurement the sensor should be positioned without tilting as shown, see Fig. 2.

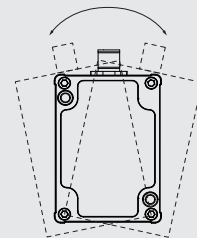


Fig. 1 Measurement range $\pm 180^\circ$

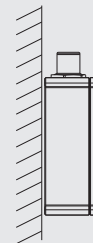


Fig. 2 Standard mounting position with most precise measurement without tilting of the sensor

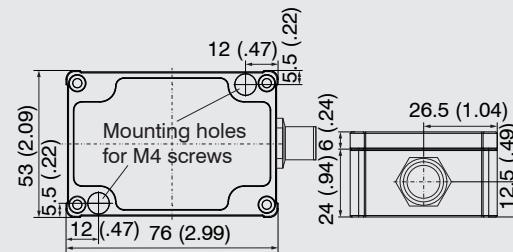


Fig. 3 Dimensional drawing, dimensions in mm (inches), not to scale