

General

With the purpose of constantly controlling structures subject to any kind of rotations, SIM STRUMENTI has developed the wall inclinometers series IN920.

These sensors can measure the rotational movement of structures, and they are available with fixed bracket, uniaxial (0.5 – 10°) or biaxial (3 – 10°), having an electrolytic sensor.

The uniaxial versions are equipped with adjustment bracket for easy levelling.

Mounted on a special metal bar provided by the SIM STRUMENTI, they become tilt beam sensors, able to monitor the inclination between two fixed points. Bars are available from 1, 2 or 3 meters. The mounting brackets are different for horizontal (floor) or vertical mounting (wall). The sensors can be mounted to measure the inclination along the axis of the bar or at 90° of it.

Since these sensors have an electrical output, they can be easily read by any data acquisition system produced by SIM STRUMENTI:

- A. MINILOG data acquisition system
- B. MYLOG data acquisition system
- C. NATUN data acquisition system
- D. DATAVIEW readout unit / data acquisition system

Each sensor is provided with calibration certificate

Applications

Structural monitoring of civil and industrial buildings.

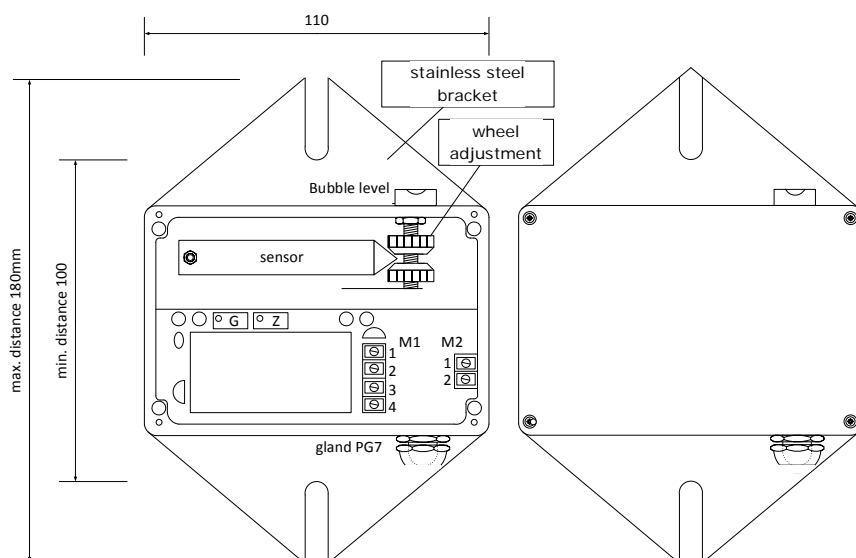
Structural monitoring

Reliability for long term monitoring

Easy installation

Low temperature sensitivity





Technical features

Model	<i>IN920-EL-V-XX-FS*</i>	<i>IN920-EL-A-XX-FS*</i>
Sensor	electrolytic	
Range	$\pm 0.5^\circ, \pm 1^\circ, \pm 3^\circ, \pm 5^\circ, \pm 10^\circ$	$\pm 5^\circ, \pm 10^\circ$
Supply	8 ÷ 24 Vdc	14 ÷ 24 Vdc
Output	Not linear $\pm 1800\text{mV}$	Linear 4 ÷ 20mA
Consumption	50 mA	
Accuracy	0.001°	0.01°
Temperature sensitivity	0.001V/°C	
Repeatability	0.0008° for 0.5° to 3° FS 0.01° for 5° to 10° FS	
Operating temperature	-20÷70°C	
Protection	IP 65	
Material		
Body	polyester reinforced with glass fibers	
Bracket	Stainless steel	
Dimensions	180x111x60mm (including bracket)	
Weight	0.875 Kg (including bracket)	

Accessories & spare parts

Kit staffe per montaggio a muro	<i>IN920-MR11</i>
Bar 1mt	<i>IN920-BR01</i>
Bar 2mt	<i>IN920-BR02</i>
Bar 3mt	<i>IN920-BR03</i>
Mounting kit for horizontal bar	<i>IN920-STMU</i>
Mounting kit for vertical bar	<i>IN920-STTE</i>

*FS - Range

*XX - *-MO* uniaxial or *-BI* biaxial

CE

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SIM

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