

## IND-30D/I1 Single-Axis Inclinometer

### 4-wire +4mA---+20mA current output

The IND-30D/I1 Series is based on a VTI 3D-MEMS-based single axis inclinometer sensor family that provides instrumentation grade performance for leveling applications. The measuring axes of the sensing elements are parallel to the mounting plane and orthogonal to each other. Low temperature dependency, high resolution and low noise, together with a robust sensing element design, make the IND-30D/I1 the ideal choice for leveling instruments. The Waysen inclinometers are insensitive to vibration, due to their over damped sensing elements, and can withstand mechanical shocks of up to 20000 g.



#### Specifications

**Measuring Range:**  $-30^{\circ} \sim +30^{\circ}$

**Precision:**  $0.03^{\circ}$  for  $-3^{\circ} \sim +3^{\circ}$   
 $0.08^{\circ}$  for  $-10^{\circ} \sim +10^{\circ}$

**Resolution:**  $0.001^{\circ}$

#### Temperature stability:

Zero point  $0.1^{\circ}$  for  $0 \sim 50^{\circ}\text{C}$

Sensitivity  $0.3^{\circ}$  for  $0 \sim 50^{\circ}\text{C}$

**Analog Output:**  $+20\text{mA}$  ( $-30^{\circ}$ ) to  
 $+4\text{mA}$  ( $+30^{\circ}$ )

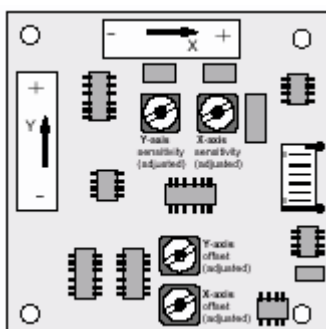
**Operating temp:** Range  $0 \sim +70^{\circ}\text{C}$

**Storage temp:** Range  $-40 \sim +85^{\circ}\text{C}$

**Supply voltage:** 24 VDC

**Current consumption:**  $\approx 9\text{mA}$

#### Sensor inside:



#### Connection:

1 Vcc (+12V..24V in)

2 GND

3 I out X-Axis

4 NC

5 Ground of I out.

Compatible connector

**Dimension:**

